

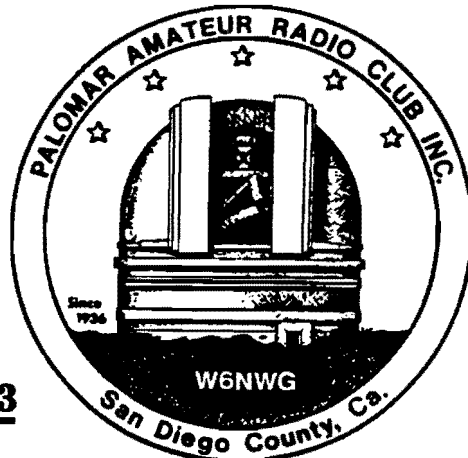
W6NWG W6NWG W6NWG W6NWG

Scope

W6NWG

Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073



JANUARY ***** 1996 ** 59 YEARS OLD

Dues \$12, Volume XXII, Number 1
Coffee 7pm, Mtg. 7:30 pm @ Carlsbad
Safety Center(CSC), Palomar Airport
Rd.to N.on Camino Real(S11),east on
Faraday .25 mi,left to CSC,TB 14F6.
===== Talk-in 146.73 =====

OPEN REPEATERS / CLOSED AUTOPATCHES
PARC PALOMAR MT.REPEATERS(W6NWG):

PARC Trustee of W6NWG: Ron,WI6B

*52.680- W6NWG,-.500 MHz(test)

Autopatches(4): 146.730-, *147.075+

*147.130+, *449.425-

PKT: 145.050s PALMAR W6NWG-1 Open

(linked PARC 9600 METROLINK)

146.700(-) Duplex BBS/EMG use

145.070/146.700 W6NWG-3/PALBBS

KJ6ZD SYSOP(QTH Vista)

ATV IN:915 WBFM,919 AM,2441.25 WBFM

Intercom: 146.430, PL 79.7 NBFM

OUT: 1241.25 AM

OTHER:*224.38- KK6KD; *224.9-WD6HFR

*224.94- KK6KD, Sharp Hosp CV

448.00- WB6FMT(123.0Hz)Vista

*146.175+ WA6IPD, FalbrkPatch

**=PL of 107.2 Hz.

***** C A L E N D A R *****

Jan 3 Wed.CLUB MEETING 7:30p @ C.SC

Jan 7 Sun.Rptr Site WrkParty PMt.??

Jan 8 Mon.==ADVANCED CLASS COURSE==

=====Carlsbad Safety Ctr 7-9pm=====

Jan11 Thu.PARC 7pm Board Mtg WB6IQS

Jan13 Sat.PARC VE Tests Carlsbad SC

Jan14 Sun.RptrTechCom 1:30pm WB6IQS

Jan20/22 SCOPE (deadline/mailling)

Feb 7 Wed.CLUB MEETING 7:30p @ C.SC

== PARC 60th Anniversary ==

=====

= R E P E A T E R S =

George Rios, KK6KD, who has the
224.38 repeater at PARC's site also
has another 220 repeater on the
roof of the Sharp Hospital in Chula
Vista. PARC members are invited to
use that repeater which is on
224.940- with a PL of 107.2 Hz. It

is our understanding that you can
hit this repeater in North County.

George also suggests that you
might want to try 145.46 (110.9),
448.46 (110.9), 146.66 (110.9), and
223.6 (110.9) which are in Mexico.

=SK=

Jerry-WB6FMT has a 448.000
repeater in Vista (PL 123.0) which
is also open for club member use.

=PARC=

NEXT MEETING VPres. Sybil-W6GIC

PLEASE COME EARLY and help set
up chairs ..and STAY A FEW MINUTES
to help put away the chairs. WE
NEED HELP!

Club meetings start at 7:30pm
but many come at 7pm to talk to
friends, get a good seat, look at
items on the junk table, see equip-
ment as it is being set up, watch
demos (ie. packet), and pick up
some of the FREE magazines.

The program for January 3rd will
be Wayne Overbeck, N6NB, talking on
VHF mountain topping.

Members who travel longer dis-
tances usually find someone in
their area to share rides with
which makes the longer drives seem
shorter. PARC will try to help you
by featuring "get-togethers" at
some of our meetings.

SHOW & TELL: Please see me
before the meeting to reserve time
for your SHOW & TELL item(s).

- LAST MEETING -

Attendance was 108 members & 17
guests for a total of 125.

The meeting was shorter than
usual with all members introducing
themselves, a few announcements,
and the meeting adjourned with
members inspecting the SHOW and
TELL tables: APRS with Pat-WA6MHZ,

COMER COMMUNICATIONS, DUANE HEISE,
NICAD LADY, R.F. PARTS, SMILEY
ANTENNAS, and a PARC table with
stamp pins(\$5), magazine order
blanks, and range computers(\$5).

SHOW and TELL: Ted-KD6AKT and
Steve-KE6GXP were in the RAQES/ARES
room showing their packet stations.
Many thanks to Ted for his efforts
in bringing a packet station in so
often on meeting nights. His
efforts have been greatly
appreciated by many club members
and we hope Ted will continue to
bring in his portable packet for
new club members to see in the
future. =PARC=

ADVANCED CLASS LICENSE COURSE

INSTRUCTORS: Bill-KB6MCU, Theory

Harry-WA6Y00, Code

Carlsbad Safety Center 7-9pm

Starting Monday January 8th

\$10 or FREE to club members(\$12)

Call 278-4284 for more infomation

==PARC==

FLYING SAMARITANS de W6HCD

The Flying Samaritans help
orphanages and medical clinics
throughout Baja Mexico by supplying
equipment, drugs, and help by doc-
tors and nurses from the USA. We
have many amateurs who participate
in these programs.

The clinic in Tecate specializes
in eye problems of the poor and the
clinic can use your old eye
glasses. These used glasses are
accurately measured, cataloged, and
filed.

The clinic doctors prescribe
what is needed and then helpers go
thru the filed glasses for the
nearest fit. For most of the poor,
it is the difference between seeing
and not seeing well at all.

Your glasses to make a difference. I will be at the next meeting to take any donations of eye glasses that you might need. If you are a doctor, nurse, or someone who can act as a translator of verbal Spanish for the doctors and nurses, please see me ASAP. =PARC=

M A G A Z I N E S

Bob & Colette Munhall of Escondido take orders for magazines. Check out these bargains:

| | ISS | Pub | Ur | ISS | Pub | Ur |
|-------|-----|-------|-------|-----|-------|-------|
| | / | \$\$/ | \$\$/ | / | \$\$/ | \$\$/ |
| | 1yr | 1yr | 1yr | 2y | 2yr | 2yr |
| CQ | 12 | 24.50 | 10.40 | - | - | - |
| 73 | 12 | 25.00 | 10.50 | - | - | - |
| PopEl | 12 | 21.95 | 8.89 | 24 | 42.95 | 16.59 |

He has lots of other mazazines (16 col). One "special" I just received quoted \$27 for two years and Bob lists it at \$13!

See me at the January meeting for copies of his lists. =PARC=

E M E R E G E N C Y T O W E R

An agreement has been worked out with Rod Davis, KM6SN, to construct a portable tower installation using one of PARC's four section 45 foot towers which collapses into a 12 foot package.

PARC will own the tower and Rod will own the trailer. He will have use of the tower for amateur radio contests throughout the year. PARC will have first call on the tower for emergencies, Field Day, and will be able to schedule requests for other times when it is available.

The loan of the tower will be for five years.

This agreement is similar to the one that PARC entered into with Bob Leyton (father of Larry-WQ6V) and resulted in the "air-pump-up" tower-trailer used by the Novice-Tech station during the past 7-8 Field Days in Valley Center.

The club owns TWELVE towers besides the 80' tower at the repeater site. 1-35'-pump-up (trailer mounted); 2-35'-lift-crank (one mounted on the club's emergency house trailer); 2-38'-crank-ups with portable bases; 1-45'-

crank-up with portable base; 1-38'-crank-up on the Taco Wagon; 1-45'-crank-up loaned to Rod; and 1-38'-tubular crank-up mounted at the repeater site for emergency antennas. The club presently has three crank-ups not being used: 2-38'-light-duty and one heavy duty 38'-tubular. In the future one or two of these might be used at the repeater site.

All of the towers were "scrounged" by PARC members except for the 45' footer used at the 20m Field Day station. PARC traded a donated transceiver for this tower. =PARC=

- Dec. BOARD MEETING -
BOARD: KC6UQH W6GIC KC6YSO
*N6QDB WB6IQS W9FQN KC6WAN *AB6QT WB6PKK (*ABSENT).

OTHERS: KB6MCU (ATV & Training),
The 7pm meeting was at Ralph-KC6WAN's QTH and started at 7:15 and ended at 10:15pm.

Ralph's wife served delicious cookies, nuts, and delicious goodies.

- SECONDS -

DISCUSSED: Year 33% completed and most accounts near where they should be for this time of the year; \$ 4,962 Equip. Bal; \$ 6,287 Gen. Purpose; \$ 3,437 Pre. Paid; \$ 200 Post Office; \$ -0- PARC ATV; \$ 135 PALBBS; \$

APPROVED: Trustee change letter; SCOPE items & 3rd party traffic rules; free magazine ad; \$75 3ea turnbuckles (T=11,000lbs) trial switch 146.7 & 145.05 antennas; Ralph authorization; \$1.67 postage FD to N6KI; \$50 to buy 5ea 2m Micor transceivers; physical year Jan 1st to Dec 31st; and donation of 2,000' 2-conductor #18 cable by Biospherical Instruments;

DISCUSSED: packet demonstrations & special interest groups; trailer update; possible patch problem; improper use of 146.7 (reversed); 1 5/8th dryer for ATV heliax line being used; possible resignation of Susan-N6QDB & suggested replacement; \$300 to ATV not transferred yet; KK6KD phone bills; new form for treasurer's report; 60th anni-

versary cake & Feb program; backup meeting place in Escondido; calling of new members; W9FQN receiving PALOMAR ENGINEERS SWR meter de unknown source; WB6PKK's PARC 145.05 mod; & a good time was had by all (almost).

Next board meeting at Stan-W9FQN's QTH in Valley Center.

Contact a board member 4-info or C Secretary 4-minutes at meetings. =PARC=

- AGOGO - K6HAV/KI6JM/W9FQN
(1-91) ..Dec attendance 61
..Pres-Stan-W9FQN, VP-Jack-KI6JM, Sec-Nash-W6HCD, Treas-Benton-KK6LX, Editor-Stan-W9FQN, Membership-Jo-KB6NMK, SANDARCEC-Rusty-AA60M ..obtained 14 1,680Ahr cells @ 350 pounds each thru Larry-WA6UTQ ..145.05 digi changed to NODE ..1st Vista patch connection established ..PARC members in Saudi ..report of Dec 10m contest at FD site ..8 PARC nets ..advertisers were PALOMAR ENGINEERS, W7HKI-Larry, and HRO.

(1-86) ... President Stan Rohrer-W9FQN, VP Larry de Montegre-KB6DNR, Sec Phil Leonelli-WF6L, & Treas Ron Wilhelmy-WI6B ..editor Ralph Crossman-K6HAV ..membership 290 ..meeting attendance averages 1983 (54), 1984 (57), and 1985 (67) ..Duane-WB6R net control of morning commute group on 146.73 ..those club members with address of San Diego-22%, Vista-20%, Oceanside-10%, Escondido-6%, Fallbrook-6%, San Marcos-4%, El Cajon-3%, Carlsbad-3% Encinitas-3%, Santee-2%, and other-21% ..Dec mtg Dave-WB6LL0 talked on satellites ..John Tentor-W60LQ outgoing treasurer ..problem with Chico, WB6HMY's four-legged piranha ..replacing 10 yr old Standard repeater on 449.425 ..2 used Motorola MSY repeaters bought for \$350 each ..Editor changes 8.5x17 SCOPE over to 8.5-11 ..SCOPE is 10 pages ..meetings at Glendale Federal in Vista ..advertisers CALCO COMPUTERS, COIN ART (KB6DNR), HAM RADIO OUTLET, HIWAY CO, WESTCOM, and PALOMAR ENGINEERS ..Jan mtg to be at Mt Vernon Inn in Escondido .. =PARC=

 PRESIDENT's WAVELENGTH, Art-KC6UQH

Immortality has always eluded man, but we as Amateur Radio Operators have the opportunity to provide for the immortality of The Amateur Radio Service by introducing the joyful experience of Amateur Radio to our youth.

Under the leadership of Harry, W6GYO the Palomar Amateur Radio Club became a Partner in Education with Challenger Junior High School. Harry has helped with Challenger's Special Event Station each year. This year on January 28, 1996 marks the Tenth anniversary of the tragic, fatal flight of the Space Shuttle Challenger for which Challenger Jr. High was named. Frank, KI6YG, is a Science Teacher and the Special Event Station will be operated under his call commencing at 8:00 A.M. Local Time on 14.250, 21.350, 28.350 MHz. +/- QRM and on 146.550 F.M. Simplex for local contacts. Challenger JHS ARC will be offering a special Commemorative QSL to those stations that send a QSL and a SASE to:

Challenger JHS, ARC
 10810 Parkdale Ave.
 San Diego, Ca. 92126

or

Mr. Frank Forrester, KI6YG
 Call Book Address

If you would like to help with the Special Event Station on Sunday, January 28th, please contact Frank KI6YG at Challenger JHS, Phone 586-7001 Extension 250

The Challenger JHS ARC meets each Wednesday after School for license study using ARRL "Now Your Talking" and Video Tapes." Students also have an opportunity to talk with other Amateur's as Third Party Traffic for an on the air experience. Jim, NE60, is also helping Frank and his students with an electronic experiment for measuring velocity.

Thanks to Gary, WA3ETO, who donated a large amount of Amateur gear and test equipment to Challenger JHS. Challenger ARC has received equipment from PARC, EARS, and others making it very well

equipped to train new Amateurs. Frank has loaned some of the recently received gear to Mr. Bob Weldon, the Educational Technician at Twin Peaks Middle School in Poway. All donated equipment is on loan to Challenger JHS and reverts to PARC when it is no longer needed.

Gail, KM6WF, who works for the Fallbrook High School District has been very successful in promoting Amateur radio at Fallbrook H.S. Several Fallbrook H.S. Students who were recently licensed have been conducting a Young Peoples net Tuesday evenings on 146.175 and they now have joined with young people from Escondido and Ramona to revived the Young Peoples Net at 7:00 P.M., Thursday, on the 146.730 Repeater. Gail's report on Fallbrook follows:

"Students have been very busy recruiting members for their school club, as well as getting Mr. Fritz Schattschneider, KE6EKY, up on the roof to install a few donated antennas. The Fallbrook Amateur Radio Club discussed the antenna situation and how they can help Fritz with the work project on the roof. The students are also very involved in helping the young people's voice net going on Thursday evenings at 7:00pm on the 146.73 PARC repeater.

Fritz continues to be very dedicated to integrating ham radio into the curriculum and his electronics class. The VE team again plans to come to the school to test and, hopefully, will be proud to announce some very new hams.

The Students are still basking in the afterglow of their SAREX contact. Last week they received a plaque from NASA with photos and a flag and arm patch that went into space with the astronauts.

Donations continue to be more than welcome and the support of the local clubs is greatly appreciated."

Congratulations to Frank, Bob, Gail, and Fritz for a job well done. I hope we can encourage more teachers to use Amateur Radio for a

teaching tool and encourage our youth to learn by doing. Computer skills while important, do not teach the mechanical skills that are still necessary to apply the theoretical knowledge learned to the physical form. Setup, operating and maintaining a Amateur Radio Station does and those skills are equally important.

Knowledge itself does not serve mankind. Man has to apply his knowledge before it can serve him. Here is your chance for application! We need help with the trailer project. Our goal is to have the Emergency Trailer ready by February so that members can practice operating this year during contests before Field Day. Contact Juan, KE6KNN, or A.J., KB6NML, to apply your knowledge in the physical form.

If you buy an antenna, you learn how to spend money. If you build an antenna you spend less money and learn how to build an antenna. If you work on a club antenna project you just learn how to build an antenna. Inactivity is expensive!

Happy New Year & 73,

Art, KC6UQH

PARC ELEVENTH BIRTHDAY PARTY

SOUVENIR PROGRAM

Palomar Radio Club

ELEVENTH

BIRTHDAY PARTY

Beach Hotel, Oceanside, 8 O'clock
 Saturday Evening March 23, 1946

(Pg2)

PALOMAR RADIO CLUB Officers

| | |
|-------------------------|-------------|
| Gordon W. Brown, W6APG | President |
| Ralph H. Rogers, W6MHL | V-President |
| Oscar W. Ericson, W6NDD | Secretary |
| Harry Fields, W6LKC | Treasurer |

PARTY COMMITTEES

ENTERTAINMENT

Ralph Culbertson, W6CHV

Clint Call, W6OFT

PRIZES

Harold Lindsay, W6LYF

Gordon W. Brown, W6APG

PROGRAM

Lou Cartwright, W6BKZ

Ralph H. Rogers, W6MHL

Oscar W. Ericson, W6NDD

Ladies' Corsages Donated by

WESTERN RADIO & ELECTRIC CO.

Dining Room Decorations by
THE OCEANSIDE AMATEURS

The Palomar Radio Club wishes to thank the following radio jobbers for their generosity in contributing to the success of our Eleventh Birthday Party -
WESTERN RADIO & ELECTRIC CO.
COAST ELECTRIC CO.
THE HAM SHACK
SHANKS & WRIGHT
PAPEL BROS.

(Pg3)

P R O G R A M

Registration -

In Hotel Lobby Starting at 7
Dinner - Promptly at 8 o'clock
HAROLD V. LINDSAY, W6LYF
Master of Ceremonies

Induction of New Members

Speakers:-

John E. Bickel, W6BKY, Dir. SWDiv
Harold D. Devoe, W6SIG, FCC S.D.
Ralph Culbertson, W6CHV, SCM
Special Feature -

by the Oceanside Amateurs

Speakers:-

Lt. (jg) Burt Fuller, USN
"Amateur Radio at War"

Drawings:-

Men's Door Prize
Laddies' Door Prize
Special Drawing

MEN'S DOOR PRIZE:- TCS 7 Xmitter
& Receiver, Donated by CLINTS
RADIO DEN, Oceanside

LADIES' DOOR PRIZE:-To be announced
at party, Donated by COAST
ELECTRIC CO., San Diego

(Pg4)

AMATEURS AND FRIENDS:

The Palomar Radio Club takes pleasure in welcoming you to it's Eleventh Birthday Party.

This party marks another milestone - albeit a minor one - in the history of Amateur Radio. Having demonstrated it's inestimable value to the Nation in war as well as in peace, Amateur Radio stands on the threshold of a new era; and will see unprecedented expansion in size and importance during the period immediately ahead.

It behooves us all, therefore, as an organization and as individuals, to continue the fight for our

rights and to promote the dignity and ethical standards of Amateur Radio to the highest degree of public appreciation and acceptance.

This program designed

and donated by-

HAM SHACK

1244 2nd Ave, San Diego 1, CA

(Editor comments below)

The 1946 price of the ticket was \$2.50: Federal Tax \$.17, Admission \$0.83, and dinner was \$1.50.

PARC was founded in Escondido in February of 1936 and our 60th anniversary is February 1996. Most of the original members were from Escondido, Vista-Oceanside, and down along the coast to La Jolla.

It appears as though Birthday Parties were hosted by amateurs in the area where the meal was being served. =PARC=

M E M B E R S H I P Ralph-KC6WAN

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

I have been authorized to sell to members at meetings (for non-commercial use) a disk with membership information. The disk sells for \$1 and I will provide FREE updates with a return of the ORIGINAL disk bought from me. A short program will be on the disk allowing you to access club information.

PLEASE PAY YOUR MEMBERSHIP DUES BY CHECK AND NOT BY CASH ..if at all possible!

4yrs= Mike-Riber

3yrs= N6ALA-Ken

2yrs= KE6NPO-Bradd

1yr= KE6ZXP-Shawna KE6CX0-Schefe

WA0IAK-Tom KE6IQQ-Blackie AC6JG-Bob

WA6IWK-Herb KA6GHE-Judy KQ6CB-Leon

KE6QXM-Art KE4ZJH-Joseph KE6ZXQ-Ed

KE6DIZ-Bruce KE6CAL-Steve KE6ZLY-

Glenn KA6NZL-Bob KE6OSD-James NE60-

Jim WH6EG-James W6PVT-Bob Tom-

Hamilton N6OYQ-James KE6ZLX-Gene

KC50LH-Jimmy KD6FPQ-David N1ROE-Bud

KE6ZIC-Eugene KM6KZ-Bob N6OZQ-Karla

KE6ZIB-Jason KF6QQ-V.F. KD6ZSR-Jerry WA6JXE-Don KC6MV6-Cap & KE6LBY-Christina

CHANGES: Peter-KG6JA to KQ6AA.

If U didn't C UR name/call here but U received UR SCOPE, then U R A MEMBER!

To receive a point for sponsoring a new club member you will need to instruct the potential new member to write on his application that you are the sponsor. Otherwise, your editor is not aware of points to be awarded to members.

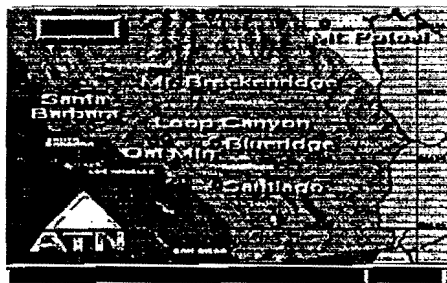
Recruiting points to: David-KE6DZV(2/2) for KE6DIZ & KE6CAL; Sybil-W6GIC(1/7) for KC50LH; Mike-AB6QT(1/1) for KE6ZXP; Cynthia-KD6TBY(1/1) for WH6EG; Stan-W9FQN(1/1) for Tom Hamilton; & Harry-WA6Y00(1/1) for KE6LBY.

73, Ralph 727-7415 =PARC=

= A T V = #3 de John KD6TLF

Our W6NWG ATV repeater is affiliated with ATN, the Amateur Television Network which is a fast scan amateur television system in Central and So. California. The ATN is a network of mountain top ATV repeaters co-ordinated and linked to each other using frequency pairs too extensive to describe here but it allows our W6NWG ATV repeater to get extended coverage from L.A. to the Mexican border, including Los Vegas.

The following is a brief overview of the network as shown in this "not-so-good" color "off the air" copy.



The Santiago Peak Rptr is the hub of the system and the one we are now linked to. The following is a list of ATN ATV Rptrs now linked or in the process of linking to Santaigo:

BLUE RIDGE Mt. NE of L.A.

OAT Mt. in San Fernando Vally



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!



Radio systems installation, repair and removal, and interference resolution.

Edward Ross, N6GZI
Antenna Specialties
542-1405



Rhō

Flexible Staffing Solutions™

**The PREMIER source for
Contract Engineering &
Technical Services.**

- Long or Short Term
- Direct Placement
- Payroll Services
- Employee Leasing

Steve Grant, N6RUV
Division General Manager
(619) 565-4992

Mt. POTOSI above Las Vegas
Mt. BRECKENRIDGE Bakersfield
SANTA BARBARA LOOP CANYON
Mt WILSON serving L.A.
CRESTLINE San Bernardino (link)
to the Mojave desert.

There is a big push under way to bring in the San Francisco area as well. ATV is educational. It's fun. It's growing fast and you can be part of it without spending a lot of money.

All that is needed is:

1.2GHz Ant. (Build or Buy)

Down Converter (\$100-\$110)

A B/W or color TV or an old

computer b/w/color monitor

Belden 9913 or equiv coax

A 2m FM xcvr for intercom use

Contact Gene-WB6C0Y @ 748-0708Bus for down converters & antennas. Call PC Electronics @

818-447-4565 for a free catalog with information on PARC's ATV repeater. See Nov '95 QST magazine for more ATV information.

I'll be happy to help you get started in ATV. Any questions or more resources, call me at 747-9431 between 8a-7p or on packet-KD6TLF@KJ6VC.#SOCA.CA.USA.NOAM.

=PARC=

REPEATER TECHNICAL John-WB6IQS
The REPEATER TECHNICAL Committee's annual meeting will be held Sunday, January 14th, at 1:30pm at my QTH. All TECHNICAL COMMITTEE MEMBERS, interested BOARD MEMBERS, and CONTROL OPERATORS are urged to attend this important meeting. Please come with ideas and suggestions of items to be discussed.

Club members interested in joining the Technical Committee are also invited along with any club members who have input for the technical Committee.

At these meetings we cover projects started in 1995 and then discuss proposed projects for 1996. Some of the items to be discussed are:

Buildings and equipment location
Battery operation of all repeaters
Linking, Detectors, Auto Announce
Additional site security measures
All Packet and ATV operations
Emergency power supply updating
Repeater site fire protection
Repeater site budget
Repeater site backup equipment/ant
Autopatch updates, modifications
Repeater site monitoring, control
New site inventories (bldgs/tower)
PARC Emergency trailer equipment
...and on and on.

The 146.7(-) packet repeater appears to be working much better since some of the distortion problems have been apparently eliminated.

Please do not enter PALBBS directly without going through the repeater. You will be DISCONNECTED if you are observed doing so. The purpose of the repeater is to "remove" the "hidden" transmitter problem and we can't do that if you

enter PALBBS directly. You will only "clobber" users on the other side of the hill if you are close to PALBBS. =PARC=

Jerry-WB6FMT PATCHES Stan-W9FQN

A recent check of autopatch tapes indicates that too many club members do not have their call any place on PARC's tape recorder. The reason is that identification is not appearing at the correct times.

You must identify (1) AFTER the ACCESS CODE is entered.

You must identify (2) BEFORE the SHUTDOWN CODE is entered.

This will put your call on the patch tape recorder twice. Failure to do so alerts a Control Operator that you might not be a club member since you are not following present club policy on the use of the patch. =SK=

Remember, your patches are HEARD over 2,000 sq mi of SDCo so watch your language and content of all patches. =PARC=

REPEATER OPERATIONS Stan-W9FQN
ANNUAL REPEATER TECH MEETING

Please do not mention that there is or is not a "beep" on the repeater. It should be obvious!

The BEEP means that the time-out timer is engaged and the repeater will "kill" in 120 seconds. No BEEP means that the PL is turned off and there is no time-out timer engaged.

This is done when there is interference or the possibility of interference so that the interfering station cannot disrupt communications by timing out the repeater. It is also done sometimes during morning commute, nets, and DFing activities.

DO NOT TALK ABOUT THE BEEP!
=PARC=

WORK PARTIES Stan-W9FQN

There will be no organized work parties at the site until Spring except for emergency trips to the mountain or individual efforts by small groups. =SK=

(12-1) Juan-KD6KNN and Stan-W9FQN picked up the last of three donated sections of 20' long heavy

duty tower and Stan unloaded it at his QTH. These sections are equivalent to the tower PARC has at the repeater site and will probably be used with a future PARC project.

(12-7) Stan-W9FQN cut six 3" steel pipes attached to two Field Day towers that need to be made more portable ..lots of fun.

(12-10)

Bill-KB6MCU came early to the site to install an "air filter" pump for the large heliax running up the tower 80' to an ATV antenna.

Bill-KC6YOX and his son, Randy-KE6YPQ, checked out the 6m repeater and were not sure if its not working was due to a poor coax connection or several slugs shifting locations slightly.

David-KC6YSO and Stan checked the 6m antenna to see that it was properly attached to the top stub of a tree next to the block repeater building.

John-WB6IQS set up his test equipment and worked on the 146.7 packet repeater. Adjustments were made in audio and modulation levels. A special thanks goes to the following for providing test signals and/or reports: Marvin-KD6YJB, Charles-N6TEP, Art-KC6UQH, Norbert-KJ6KD, and Paul-KB5MU.

Since we had no portable packet to see who you all were, there could have been more "helpers" than we knew about ..we thank one an all.

We had a great crew working on the new guy anchors.

Les-KE6QIM finished digging the hole near the block building. He installed the rebar, guy anchor, and wire mesh. Bob-KA6NZL completed the same installation preparation near the incoming road and Larry-KO6SM did the installation preparation back of the tower. Stan gave Bob and Larry (first timers) a tour of the site showing them all buildings, repeaters, battery backup, and antennas. Bob now has the honor of having the earliest birthday beating out Stan by a good five year.

After all holes were prepared David, Less, Bob, Larry, and Stan

started pouring 900 pounds of cement into the first two holes until they ran out of cement. Looks as if Stan will need to haul another 600 pounds to the site to complete the work started and the remaining hole behind the tower.

All cement was prepared in a small barrow which held three quarts of water and 60 pounds of cement/rock mixture. Each batch required only 30-45 seconds to prepare. The barrow was rolled back and forth and internal fins mixed perfect batches every time.

It was a beautiful Fall day on the mountain. Wish more of you could have been there to enjoy the outing ..and good fellowship. There is just something special about the good mountain air!

(12-12) The prediction was for rain on the evening of the 12th so Stan-W9FQN picked up 900 pounds more of cement and dashed to the mountain to fill the remaining hole with cement and add some more weight to the other two holes.

The front left has 540 lbs, back 600 lbs, and the left one 660 lbs. The first two holes have 2" tree roots while the last one has none. These weights do not include water or steel in the cement.

After the cement cures turnbuckles will be attached giving us a restraining force of 3,000++ lbs on the guy lines due to the weight of cement and weight of dirt above.

This now gives us a total of 9 guys (some SS) plus 16 tons of cement in the base of the tower to resist an overturn moment of 267,358 ft-lbs (95% of the 16T base torque is left) at 120 mph. At 100mph, which is the design code for our area, we have almost 179% of the base torque left (the guys have 79% more than needed) for safety.

The tower, base, feedlines, antennas, and cross-arms have been entered into a PARC GWBASIC program and present conditions or "what-ifs" can be calculated immediately.

The total area of the tower and all items on it is presently at

250.5 sq ft, weight of tower and all items is 3,200 lbs, and the maximum force on one leg at 120 mph is 7,061 lbs (within 33,000 lb limit). The lateral force is 10,799 lbs (pressure is 43.1 lbs/sq-ft). =PARC=

1 4 6 . 7 0 0 (-) P A C K E T

A check of the packet repeater disclosed that under some conditions that the tones were distorted resulting in "lost" packets. The problem seems to be corrected and we hope that those of you who were having periodic problems with 146.7 will again give it a try. It really should be much faster than 145.07 getting into PALBBS.

Chev-KD6URU in University City used his HT Y-530 running 0.5w with a MFJ expandable antenna to work Mike-KD6VHI in Valley Center. Their conversation lasted 45 minutes without a "drop-out."

PARC hopes that in cases of emergencies that portable packet stations (stationed at hospitals, command centers, and evacuation centers) will be able to use 146.7 for their communications since it should be one of the clearest DIRECT methods of communicating in the county by packet. =PARC=

- N E T S -

Thursday evening three hours are set aside for nets: YOUNG PEOPLE, TRAFFIC, & COMPUTER.

Members should remember that 147.075 and 147.130 are available and that each net does not use up their entire hour.

Third Party Traffic (TPT) is invited so members should encourage 3rd party traffic among the younger people in your family. PARC defines TPT with a Station Control Operator (SCO) as follows:

SCO must make initial contact.

(ie this is W9FQN with Susan at the mic)

TPT can push the PT switch.

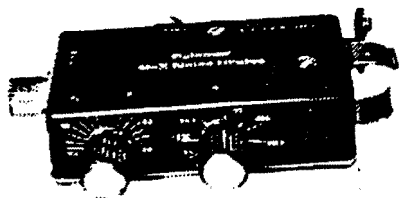
TPT can give Control OPs callsign.

SCO responsible for seeing that the

10min rule is observed by TPT

SCO must monitor outgoing traffic.

R-X Noise Bridge



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$79.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preamplifiers, Teroids, Baluns, VLF Converters, and Loop Antennas.

PALOMAR ENGINEERS

Box 455, Escondido, CA 92025
Phone: (619) 747-3343

SCO must B in the room at all times SCO responsible for proper station operation at all times. SCO must make final ending contact. (ie this is W9FQN completing 3rd traffic with Susan at the mic)

PARC feels that these rules will meet all FCC & PARC objectives. Suggestions & comments should be directed only to a PARC BOARD member.

The YOUNG PEOPLE's net is for young people and club members should not participate or give suggestions over the air while they are conducting THEIR net unless the net asks for your participation.

PARC is monitoring the net for proper operation and comments or suggestions can be directed to Gayle-KM6WF, Bill-WD6HAW, or Stan-

W9FQN who will funnel the comments to the stations that run the net.

It takes several months for a NEW NET to become established and we hope that the YOUNG PEOPLE will "hang in there" during the next few months. =SK=

Paul-WA6TIL has consented to be the net manager for the 7pm evening code practice nets on 147.075 Monday thru Friday.

Anyone who can send CODE by computer should contact Paul Wednesday evenings when he is the NC for the code net. We need backups and people that can be rotated in during the month. Present NC's are:

Monday KD6WDE-Ed
Tuesday WA6Y00-Harry
Wednesday WA6TIL-Paul
Thursday K06BT -Duane
Friday K06IQ -Erick

Code backup: W9FQN -Stan

SAVE BIG ON '96 CALLBOOKS

North American or International
(retail \$35) \$27.95; Both \$52.95

NEW: Radio Amateur Callbook
CDROM '96 (retail \$50) 39.95
QRZ! Ham Radio CDROM vol.6) 17.95

'96 ARRL Handbook w/s.w(\$38)35.95
Any other ARRL publication . call

POSTPAID. Add 7% tax(CA orders)
Duane Heise, AA6EE (pd ad)
16832 Whirlwind / PARC12
Ramona, CA 92065 Ph.789-3674

FORESAIL

Masts R-4 antennas!

Ph/send ads 2 W9FQN (C Ed's addr) 84 20th of mo. w/ur NAME, CALL, Ph #, & CITY. PERSONAL ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

Block ads: business card (1/3rd col.) \$5; 2/3rd col \$10; 1 col \$15; 4 card size (almost 1/2 horizontal page) is \$20 per issue. Billed Feb, May, Aug, & Nov.

Kevin Sanders, KN6FQ, in Escondido is now handling PARC's extensive tube bank. Contact Keven

at 432-8381 for availability and prices.

***** NEW ADS *****

(12-15) 16MHz 286 IBM Clone 40MB h/d modem EGA monitor \$250 Tony 223 8077.

(11-09) IBM compatible OKIDATA 192+ NLQ dot matrix printer, stand, paper, parallel cable & manuals \$49: Howard WB6AKM 453 3156N or 642 2400 x 1201 Days (SD).

(10-23) KWM-2+pwr supply ex cond: Joey-NU6L 749 0276 VC.

(10-19) Heathkit SB-100 100w tube transceiver. Great first rig. Call for price. Stan W9FQN for PARC 749 0276 Villy Ctr.

(10-03) Power supplies 5v@2A-35A \$5-\$35: Mike (mountain) AB6QT 742 1573 PalMt.

(10-03) Compudyne modum 2400 \$20: Steve W2MRM 451 5690 R.Bernardo.

*****-OLD ADS PRINTED ON ODD MONTHS

(8-7) ICOM 730 HF mobile rig 10-80 meters, gud base also, manual, pwr, mic & mobile mic \$600 or best offer: Curtis N6XXU 599 0178 Vista.

(7-18) Triaxe(?) Twr 52' crank-up ready to go w/new motor & orig paperwork \$575; Two Sony stereo reel-reels for station recording \$20ea; IBM Quietwriter printer/cut sheet feeder \$20; Call/fax for list assortment major software for Windows; Mark KC6CZ0 Escondido.

(5-17) Tempo 2020 w/extra VF0 \$150; ICOM micro 2AT w/extra batteries, charger, mobile charger + accessories \$200: Alf WB6TAW 941 2428 Vista.

(5-14) HP-9872 plotter 11"x17" \$350: Tom K6MDG 789 0711.

===== HIGHWAY ELECTRONICS:parts,(new/old) military. Ask 4Nick,967-7225 2 C if open(10-3pm),305 Wisconsin Ave,0csd =====

PLEASE LET ME KNOW IF YOU BUY OR SELL SO I CAN TAKE OUT THE AD!

***** WANTED *****

"This ore that"

(11-21) KENWOOD TS-850s w/cw filters also 500Hz filters for KENWOOD 940/850: Dennis N6KI 271 6079.

(10-25) Daisy Wheel printer that can do graphics: Bill IM2NUT 122

1004

(10-20) 220 mobile with PL: Bill
N6FMK 941 9492 Vista.

OLD WANTED PRINTED ODD MONTHS

(9-13) Color monitors which have
video and sound inputs to be used
in five medical clinics in Mexico.
VCR's will be used to play "health
topics" to patients as they are
waiting to be seen by the doctors:
Nash W6HCD 940 1028 Bonsall.

(6-2) EX SWAN tech does repair &
refurbishing of Swan Xcvrs: John
Bruchey, 4910 Verde Dr, Oceanside
92057.

(6-2) SWAN DIGITAL readout
accessory DD-76; and circuit board
vise: Nash W6HCD 940 1028
Fallbrook.

FALLBROOK HIGH SCHOOL will take
any and all donations of amateur
radio equipment. We need radios, a
Tri-band Beam, etc. (it's all tax
deductible). Please contact Fritz
Schattschneider, KE6EKY, at 723-
6357 or Gayle Olson, KM6WF at 723-
6402.

PLEASE REPORT UNWANTED ADS TO UR
EDITOR! =PARC=

INTERNET SURF REPORT Kevin-KN6FQ

Those of you with a soft place
in your heart for vintage amateur
and military radio gear will find a
growing community of like-minded
folks on the Internet. To
participate in this discussion
group you will need a computer
account which provides access to
electronic mail.

Send a message containing the
words "subscribe boatanchors YOUR
NAME" to-

listproc@theporch.com
in order to join the list; to send
public messages to the list
participants e-mail them to-

boatanchors@theporch.com.

=SK=

Talking abt nets U might try:
ARRL HOME PAGE-----

webmaster@arrl.org

or WWW page= <http://www.arrl.org/>
UNIFORM RESOURCE LOCATOR(URL)-----

<http://www.arrl.org/ARRLWeb>
AMERICAN RADIO RELAY LEAGUE-----

<http://www.arrl.org/ARRLWeb>
RESTRICTIVE ANT. COVENANTS-----

<http://www.hamweb.com/~sjl/STONER/ANTENNA.html>.

MAKING THE COMPUTER WORLD SAFER---
<http://www.cs.purdue.edu/coast>
or <coast-request@cs.purdue.edu>

COMPUTER SCIENCES OUTREACH-----
<http://www.cs.purdue.edu/people/sja>

TUCSON AMATEUR PACKET RADIO sound--
<http://www.tapr.org/>

FCC SHORT WAVE BROADCAST LIST-----
<http://www.fcc.gov/Welcme.html>

(files) [ftp.fcc.gov\(.\)](ftp://ftp.fcc.gov/)
log on as "anonymous"

BUCKMASTER CD HAM CALLS-----
www.buck.com

DX SKYCOM MUF predictor-----
<http://www.fuentez.com>

INTERNET has sec.called Boatanchors
----- BBS's -----

KENWOOD ... 310-761-8284, 8-N-1 14k
COMER COM. 619-744-4032,
RADIO SPORT 619-279-3921,
(other BBS's in SD Co.?)

P.J. Mead of the US MARINES
(N6UCJ now KE4JIR) was recently in
town from Quanaco VA. He sends his
best to everyone and can be reached
at:

pmead@staffnet.com

If anyone has corrections or
additional addresses of interest to
hams, please send them to your
editor. =SK=

TIC-TAC-TOE or who are you!

Over the years PARC has required
all groups using our repeaters for
drills, public service events, and
emergencies to use their callsigns
so that responsibility for their
actions could be fixed to a
specific amateur station.

In the past PARC has been
"burned" when stations hid behind a
Tactical call sign such as TAC1 or
BASE ..and the amateur call was not
included. Improper language was
used and business communications
were "hid" behind the Tactical
callsign. PARC could not affix
responsibility for the
transmissions since there were 4-5
amateurs using the same tactical
callsign (ie. TAC1) during the
exercise and none would take
responsibility for what took place
(probably because they were not
club members and knew that what

they did was wrong).

PARC has responsibility for its
repeaters and we try to keep them
operating according to FCC rules
and PARC rules.

Tactical callsigns are used by
governmental agencies so that the
general public does not know who is
making the transmission or where
they are located. This does not
apply to most amateur events.

Tactical callsigns are permitted
on our repeaters for specific
events when they meet the following
rules:

1)on the 1st transmission you need
to give your callsign as well as
your assigned Tactical callsign
(TAC1 this is N6YZZ TAC2).

2)on the last transmission (or
every 10 minutes) you need to sign
with your callsign AND your
Tactical callsign.

3)you may refer to a Tactical
callsign without the amateur
callsign in your conversation. You
may call a TAC callsign since you
might not know the amateur call of
the person manning the station (ie
TAC1 this is N6YZZ TAC2).

4)all FCC identification rules must
be observed.

5)if in doubt, always give your FCC
call and tactical call together.

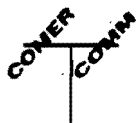
It is somewhat debatable whether
in small events with less than 3-5
stations whether Tactical callsigns
are needed since everyone should
know each other and their locations
and functions.

If there is a "high turn-over"
at a specific location with various
amateurs manning that specific sta-
tion, then Tactical callsigns
become more important to let all
know where the amateur call is
located.

PARC DOES NOT LIKE Tactical
callsigns but realizes their value
in SPECIFIC situations. We only
what to fix responsibility to the
transmissions being made on our
repeaters since we are responsible
for their operation.

In the past a repeater has been
turned off for improper use of
tactical callsigns.

It needs to be remembered that



DSP 100

The PC Transceiver

*General Coverage Receiver 450 KHz to 30 MHz.

*-10 dBm exciter output for all HF amateur bands. Simple no solder components available to raise power output to 50 or 100 Watts.

* High Dynamic Range Direct Conversion Architecture with full DSP.

* Two ISA bus card system, uses an Analog front-end Card and a DSP card for all passband filters and modulation / demodulation.

* FREE software upgrades.

Call our BBS on (619) 744 4032 for more info and FREE demo software.

Receiver/Exciter + DSP \$695 +tax

COMER COMMUNICATIONS INC.,
609 Washington Drive,
San Marcos, CA. 92069.

Tel (619) 744 7266 Fax (619)744 4745

almost all public service events use our repeaters on a "shared" basis and DO NOT HAVE EXCLUSIVE use of the repeater except in times of emergencies when they need a "clear" channel. Club members should keep their conversations short or go to another one of PARC's repeaters to give the PUBLIC SERVICE event as much "space" as possible.

Public Service events cannot ask you to move to another club repeater although a control operator might do so if he/she feels there is a problem. =PARC=

PROJECT

Any one interested in heading up the following project?

We would like to announce some of the following:

Nets held each day- time/freq
Date of next meeting and program
Public service events- date/time
Temperature/weather at Rptr site
... your ideas? ...

It is assumed that the system

will be computer based and controlled or made up of smaller "voice chip" units being sold so cheaply these day. =PARC=

GENERATOR

The club owns a 1,800 rpm 3.5kw 110vac generator which has been used during Field Days. It has a battery for automatic starting from a remote location. The original idea was to possibly put it up at the repeater site to help augment our batteries.

Since we now have 3360 Ahr of battery storage and the possibility of 5040 Ahr more sometime soon, an automatic 110vac generator doesn't seem quite as important.

"Little Joe", WB6HMY, donated at 1kw 110vac generator which is at the repeater site and can be used for extending the life of the batteries under emergency conditions although 1kw won't even keep us even. That is just a "drop in the bucket" with such a large number of batteries and repeaters.

It has been suggested that possibly we might want to invest in a 10-15hp gas engine driving 3-4 car alternators at 200-300 amps to supply about 16-18 volts needed to charge our large battery banks. This is more energy efficient than generating 110vac, and then converting it back to 16dc. Why not just generate the 16-18vdc directly?

Since we have many club members living on Palomar Mountain, it would be easy for them to drive over to the site, start up the motor, and let it run until the tank of gas runs out.

We need about 100amps with most of the equipment operational so we would have to generate 200-300amps just to provide 100-200amps of charging current.

Contact a Board member if you are interested in investigating this project. =PARC=

***** PARC's TOP 20 *****

- DXCC and W.A.S. -

CALL WORKED/CONFIRMED STATES

| | | | | | |
|---|--------|-----|-----------|----|----|
| 1 | WA6Y00 | 318 | 316 Mixed | 50 | 50 |
| 2 | WA6Y00 | 314 | 313 Phone | 50 | 50 |

| | | | | | |
|----|--------|--------|-------------|-------|----|
| 3 | AC6V | 316(3) | 307 Mixed | 50(3) | ? |
| 4 | AC6V | 311 | 303 Phone | 50 | 50 |
| 5 | WA6Y00 | 234 | 233 CW | ? | ? |
| 6 | WA6HYB | 202 | 194 CW | 50 | 50 |
| 7 | WB6NBU | 197(4) | 180 | 50 | 50 |
| 8 | AA6EE | 200 | 180 | 50 | 50 |
| 9 | AC6V | 152 | 149 CW | 50 | 50 |
| 10 | KI6JM | 193 | 136 | ? | ? |
| 11 | WA6Y00 | 120 | 120 RTTY | ? | ? |
| 12 | N6SMW | 150 | 109 Mixed | ? | ? |
| 13 | N6ELP | 138 | 105 RTTY(6) | ? | ? |
| 14 | KC6QXU | 95 | 86(2) | 50 | 50 |
| 15 | W6EYP | 37 | 13(5) | 50 | 24 |
| 16 | AA6TR | 1(1) | ? CW | ? | ? |
| 17 | W9FQN | 1 | ? Phone | 1 | 1 |

20 ...
(1)100mw, (2)10m only, (3)8watts,
(4)135/AEA-attic-isoloop, (5)10-20m, dipoles 12' off gnd, (6)RTTY all 20m.

Please send in your WORKED-CONFIRMED and STATES info to UR Editor. Pse break down by Ph/CW/Mixed if possible.

***** -TOP 10 -*****

- WORKED ALL CALIFORNIA COUNTIES -

CALL WORKED/CONFIRMED Comments

| | | | | |
|----|--------|----|----|--------------|
| 1 | WA6HYB | 58 | 58 | 40cw,6months |
| 2 | WA6HYB | 32 | 32 | 1watt CW |
| 3 | W9FQN | 1 | 1 | 2m FM |
| 4 | | | | |
| 10 | | | | |

W.A.C.C. rules and information can be obtained from K.O. Anderson, K6PU, PO Box 853, Pine grove, CA 95665 or contact Dan-WA6HYB. Dan suggested that with the sunspot numbers dropping that this might be an award that some of our members might want to work towards. It also is a good way to see where towns and counties are located in our great state of California. =PARC=

OTHER FREQUENCIES

The following are frequencies that might be of interest to club members:

Up I-5/15past ckpts PL103.5 145.220
APRS Pkt position locator . 145.790
Fallbrook area PL107.2 146.175
PAL8BS, PARC Packet BBS 146.700
and 145.070
Coastal SD->LA/SBarbara ... 147.090
Up I-5 past ck pt. 147.645

If you have any suggestions of other useful frequencies, contact your editor with the information.

=PARC=

Thanks to:

Art-KB6YHZ & Anita-KB6YHY made the coffee and supervised the drink & goodies ..and members bringing goodies were: Anita-KB6YHY, Duane-AA6EE, Bill-KM6PY, Jack/Audrey-KI6JM, George-K6YGK, Paul-N6ISC, Chris-KE6LBY, Larry-K06SM, Duane-WB6R, Miller-W6TDC, Chris-NONDF, Jerry-N6TCB, John-W6OIQ and Cynthia-KD6TBY.

PLEASE DO NOT BRING GOODIES TO THE NEXT MEETING!

Goodies were great and you were rewarded with ONE participation ticket. =SK=

Sybil-W6GIC for doing a great job in her position as V-President. We have been having excellent programs and she has publicised the club at other meetings, events, and with notices at HRD. =SK=

Bruce-WA6IZP for donating a 2m rig for Paul-KD6JXY's THIS WEEK IN SAN DIEGO report on Sunday evenings.

Bernice-N6WQR for donating a great 11el 2m beam to be used on the RACES van and to James-N8NHY who cleaned it up.

George-K6YGK & Dennis-N6KI for a "goodie" packages of interesting magazines. I read them all and file many of the articles for future use.

If we miss anyone, please let your editor know WHO and WHEN. =PARC=

- T E C H N I C A L -

Ur Editor will accept items submitted by the membership.

- L I G H T N I N G -

(de W9FQN) Many amateurs think that by connecting a wire from their rig to a metal stake that this is grounding their radio system. There are many things that need to be considered when protecting your equipment from lightning.

1st. Simply driving a stake in the ground does not assure you of a grounded radio system. A bottom sealed 1-inch by 8-10' copper tube or steel clad copper stake should be driven (not dug) into the

ground. The tube should have holes drilled in it every foot so that when you pour a solution of MgSO4 (Epson Salts at Vons) into the pipe that the salt solution can slowly seep out through the holes. This solution should be poured into the pipe every week for a month or so and then at least once a month after that. Pouring in a couple of gallons of water from time to time should keep the ground moist ..and conductive.

2nd. The tower should have each leg grounded to its own ground rod using copper strap (1.5"x .0159" or thicker) which is equivalent to #6AWG (.02062") and cannot be fused open by lightning. The strap is sandwiched (SS/copper-strap/SS) to the tower with stainless steel clamps and also clamped to the ground rod. ALL JOINTS EVERYWHERE SHOULD BE COATED WITH CONDUCTING GREASE BEFORE BEING ATTACHED OR CLAMPED to improve electrical conduction and reduce oxidation which will ultimately form a high resistance. Copper strap has less inductance per foot (22% less) than wire of the same surface area. Remember, many grounds are only Direct Current grounds and not necessarily a good Radio Frequency (RF) ground which is needed for lightning strikes ..hence, the use of copper strap. The radius of any bends should not be less than 8-inches.

3rd. The ground rod at the tower (one on each leg) should be connected to the ground rod nearest to your shack using 1.5-3" copper strap, wire or bare coaxial cable with copper strap being best. The three tower ground rods should have equal ray like fingers radiating outward from the ground stakes with stakes driven in every "stake length" (8' rods, 8-10' apart).

4th. All station equipment should be tied to a copper plate of at least 18x10" for 16" studs and each item of equipment should be grounded to it with a wire running directly to the plate. A better alternative would be to run a strip of 3" copper strap along the back

of the table and ground each item directly to it with copper strap. Then connect to your outside ground stake with copper strap.

5th. All antenna leads should have a disconnect point OUTSIDE the shack (switched?) which allows the antennas to be connected to your ground system using copper strap. Gas discharge tubes with DC blocking (\$50ea) should be used at that point and connected to ground by straps. Radio Shack discharge tubes are better than nothing. The club's Polyphaser protectors are much better. Contact W9FQN if you would like to get in on the next PARC order.

After the discharge units, coil and tape the coax up into a 12" DIA coil of 3-5 turns right after the discharge units to provide inductance to prevent any stray lightning from reaching your equipment. The same should be done for all other connections: AC wiring, phone lines, rotator cable, etc. Make sure that all coils are in the same plane (flat on the floor and same rotation) so that there is no inductive coupling between coils.

6th. All AC lines should contain filters and MOV protection (3 ways) on the three wires coming into the equipment. TARGET carries a good MOV unit for \$10 in their AC section which connects three MOV's and a fourth on the most likely lightning mode. Specifications are 1-nano-sec, 285joules, 5,000Amps, and space for six plug-ins. Hard to beat for \$10! Keep these units away from anything that could catch on fire. Combinations of inductive filters and MOV units would be best.

It is impossible to give a complete description of grounding here but if there are enough requests we could have a program on grounding ..or you can come up to the repeater site to see how we are doing it. If you are going to be hit by lightning, you want the lightning to go to ground by the most direct route and not take a detour through your house and

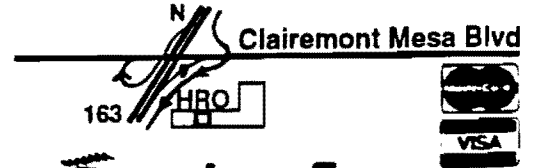
WE NEED YOUR HELP!

Pg.11



HAM RADIO OUTLET

"LARGEST HAM OUTLET IN THE WORLD"
ALL MAJOR BRANDS IN STOCK NOW!



concept

DIAMOND
ANTENNA

HUSTLER

COMET

Cushcraft

OUTBACKER

hy-gain

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TOWER

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Astron

Iri-Ex

K&K electronics

MFJ

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or toll free 1-800-854-6046

5375 KEARNY VILLA ROAD, SAN DIEGO

equipment where it can be a very shocking experience with a lot of damage.

PARC's repeater site WILL BE HIT BY LIGHTNING sometime. We just hope that everything that we have done will take as much of the lightning as possible to ground before any real damage is done.

It should be noted in closing that nothing has really been said about DC grounding for lightning being good also for Radio Frequency grounding. Possibly someone would like to address the RF grounding in an article sometime. I remember in 1957 having "white" RF burns on my lips from "close talking" a metal microphone with the rig on 10 meters ..and a long ground wire.
=PARC=

TRAILER

PARC owns several trailers. The TACO wagon has been used on Field Days for many years and probably cannot be licensed even if we wanted to.

The second trailer is a 16 foot licensed trailer. N6RV0 and crew installed an operating station table along the short side (door side). The long side has a porta-

potti, stove, refrigerator and front couch. Everything is really not usable except for the station table.

There is a 35' crankup tower installed on the front hitch assembly.

To make the trailer usable for emergencies we need to-

FIRST: A crew needs to clean out all items which have been stored in the trailer.

SECOND: A crew with wrecking bars needs to come in and rip out the stove, refrigerator, and front couch.

THIRD: A crew needs to plan out the new inside communications layout to include operating positions for the equipment mentioned below.

FOURTH: We need people who have some wood working experience and tools to construct operating positions along the side and front of the trailer.

FIFTH:

The outside needs to be cleaned of all old paint flakes left after the stripping of the paint by W9FQN in 1994.

SIXTH: The outside needs to be painted with the PARC emblem added to the outside.

SEVENTH: The inside must be stocked with our emergency equipment:

HF with portable antennas/beams
SSB, CW, RTTY (we have IC-735)
VHF/UHF with antennas
PARC 2 meter simplex repeater
Computer w/printer for data bases
Computer for Packet operations & position reporting (GPS)
Install batteries
UPS emergency AC power
Install AC generator

Consider picking one (or several) of the areas mentioned and participate in our 1996 trailer project.

The trailer is at W9FQN's QTH and probably should remain there for the FIRST and SECOND phases.

Jo-KB6NMK has offered her QTH in Escondido for the remaining phases with A.J.-KB6NML available for inside construction projects.

Juan-KE6KNN has volunteered to head up the project and has suggested we move the trailer to Camp Pendleton off of road 5 at the Las Pulgas off ramp for the remaining phases.

WELL, THERE IT IS! Please take a look at the work needed to be done and the equipment needed. Is there

PARC Membership Application

| |
|--|
| AMATEUR CALL |
| CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW |
| ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO |
| LAST NAME |
| FIRST NAME |
| STREET ADDRESS |
| CITY |
| STATE ZIP |
| HOME PHONE |
| WORK OR OTHER PHONE |
| HAM LICENSE EXPIRES |
| FAMILY MEMBERSHIP (List other calls and names) |
| CLASS OF LICENSE N T T+ G A E |

Jan. '96 S.Call?:

(Sponsor's call not required)

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

SCOP E, US Post Office #076530
Published monthly by: = PARC, Inc.=
Membership \$12/yr including \$3 for
SCOPE inside SDCo (outside \$4).

POSTMASTER: Return to -> S C O P E
P.O.Box 73,Vista, CA 92085-0073

Jan 1996

1-01 Rptrs,Next,Last,Class,FlyingS
2-02 Magazines,EmgTwr,Board,AG060.
3-03 President, Eleventh Birthday.
4-04 Membership, ATV,
5-05 RptrTech/Ops,Patch,WrkParties
6-06 146.700pkt, Nets,
7-07 For Sale,
8-08 Surf Report, TIC-TAC-TOE, ...
9-09 Project,Generator,DXCC,Freqs.
10-10 Thanks, Technical,
11-11 Trailer,

Dec. SCOPE FOLD/STAPLE

Editor:Stan Rohrer-W9FQN 30311 Cir.
R.Ln.,Vlly Ctr CA 92082 . Forms
KC6WAN,Ralph Powell,Printing,Labels
KI6JM Jack Hanthorn,Folding Refresh
KB6YHZ . Art Nye . Folding
KB6YHY . Anita Nye . Labels
W6TFB Lloyd & Lisbeth Hunt,Folding
N6WQR Bernice Rosenberg Folding
WA6Y00 . Harry Hodges . Staples
KB6NMK . Jo Ashley . Labels

Started at 12pm, ended at 1:45pm

- P A R C B O A R D -

Pres : Art McBride . KC6UQH 7418143
VPres: SybilAllbright W6GIC 2784284
Sec : David Doan . KC6YSO 2864888
Treas: Susan Rohrer N6QDB 7490276
RptTec:John Kuivinen WB6IQS 7273876
SCOPE :Stan Rohrer . W9FQN 7490276
MemShp:Ralph Powell KC6WAN 7277415
Member:Mike Doyle . AB6QT 7421573
Member:MarvinMunster WB6PKK 7472223

VE Program: Rusty . AA60M 7475872
ATV/Edu. : Bill . KB6MCU 5822313
PALBBS : Norbert KJ6ZD 6305538

IF CHECKED, SEE TOP OF PAGE!

The NiCad Lady N6WPA

Battery Pack biting the dust?
Get your power source rebuilt
with NEW higher quality cells!

Up to a 50% Savings over the
cost of a new pack!

- Radios
- Laptops/Notebooks
- Test Equipment
- Camcorders
- Any Special Application

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anything that YOU CAN DO to help
PARC with this project?

Please contact one of the fol-
lowing to volunteer for one or
several of the project phases
listed:

KE6KNN - Juan Oceanside 385-4688
KB6NML - A.J. Escondido 741-2560
KB6NMK - Jo Escondido 741-2560
KC6UQH - Art Escondido 747-0253
W9FQN - Stan Valley Ctr 749-0276

FLASH! Frank Littlebury, KE6W0E,
a computer programmer, has offered
PARC a Web Page which he is willing
to set up for PARC.

If you would like to see some of
his work, check out -

<http://www.corkyspest.com/corkys>

You might try NETSCAPE 1.2/1.1.

=SK=

Amateur Radio Today

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Vista CA 92085-9998

| | | | | | |
|------------------|--------|---------|-----------|------------------------------------|--------------------------------|
| Vista | Mira M | La Mesa | Fallbrook | Membership Expires PRC yy mm | License Expires LX yy mm |
| Palomar Mountain | | | | | |

Phone Codes

Deliver To

Mtg.1st Wed of Jan. 7:30p Carlsbad Safety Center

C U There!



Scope

W6NWG
Palomar Amateur
Radio Club Inc.
Post Office Box 73, Vista,
California 92085-0073

FEBRUARY *** 1996 ** 60 YEARS OLD**
 Dues \$12, Volume XXII, Number 2
 Coffee 7pm, Mtg. 7:30 pm @ Carlsbad
 Safety Center(CSC), Palomar Airport
 Rd.to N.on Camino Real(S11),east on
 Faraday .25 mi,left to CSC,TB 14F6.

***** Talk-in 146.73 *****

OPEN REPEATERS / CLOSED AUTOPATCHES
 PARC PALOMAR MT.REPEATERS(W6NWG):

PARC Trustee of W6NWG: Ron,WI6B
 *52.680- W6NWG,-.500 MHz(test)

Autopatches(4): 146.730-, *147.075+
 *147.130+, *449.425-

PKT: 145.050s PALMAR W6NWG-1 Open
 (linked PARC 9600 METROLINK)

146.700(-) Duplex BBS/EMG use
 145.070/146.700 W6NWG-3/PALBBS

KJ6ZD SYSOP(QTH Vista)

145.790 APRS(Lat/Long)S.D. Co.

ATV IN:915 WBFM,919 AM,2441.25 WBFM
 Intercom: 146.430, PL 79.7 NBFM

OUT: 1241.25 AM

OTHER:*224.38- KK6KD; *224.9-WD6HFR

*224.94- KK6KD, Sharp Hosp CV
 448.00- WB6FMT(123.0Hz)Vista

*146.175+ WA6IPD, FalbrkPatch
 * = PL of 107.2 Hz.

INTERNET (NEW)

--> <http://www.electriciti.com/parc>

***** C A L E N D A R *****

Feb 7 Wed.CLUB MEETING 7:30p @ C.SC
 == PARC 60th Anniversary Party ==

Feb10 Sat.PARC VE Tests Carlsbad SC

Feb15 Thu.PARC 7pm Board Mtg W9FQN

Feb23/27 =SCOPE= (deadline/mailling)

- WORLD WIDE WEB -

See page 11 for Frank-KE6WOE's
 PARC www page! In our 60th year we
 are now WORLD WIDE!

The "PARC www Page" is linked to
 all sorts of goodies from all over
 the world ..just "click" and the
 world of amateur radio is at your
 finger tips! =PARC=

NEXT MEETING VPres. Sybil-W6GIC

60th ANNIVERSARY party

The program for February 7th
 will be our 60 th ANNIVERSARY PARTY
 with "real OLD TIMERS" being hon-
 ored: original club members, oldest
 ham, licensed the longest, etc.

We will also try to have on dis-
 play some of the "old" ham gear. If
 anyone has a collectors item for
 SHOW AND TELL, be sure to bring it:
 transmitter, receiver, telegraph
 keys, pictures, tubes, etc.

Come to have the OT's, visit
 with your friends, and eat 60th
 ANNIVERSARY CAKE!

Club meetings start at 7:30pm
 but many come at 7pm to talk to
 friends, get a good seat, look at
 items on the junk table, see equip-
 ment as it is being set up, watch
 demos (ie. packet), and pick up
 some of the FREE magazines.

PLEASE COME EARLY and help set
 up chairs ..and STAY A FEW MINUTES
 to help put away the chairs. WE
 NEED HELP!

Y O U N G P E O P L E N E T S

All young people (21 and below)
 in San Diego County are invited to
 participate in the 146.730(-) YOUNG
 PEOPLE's NET at 1900Hrs (7pm).
 There will be discussions on topics
 of general interest and plans for
 weekend activities: hiking,

Direction Finding, antenna build-
 ing, etc.

Amateur radio operators who have
 youngsters who are interested in
 amateur radio are encouraged to let
 their youngsters participate as
 "third party" contacts according to
 FCC rules.

Those young people experimenting
 with Touch Tone Encoded Squelch
 (TTES) should remember that you
 need to listen to the channel
 (repeater) before sending codes so
 that you do not interfere with con-
 versations already on the
 repeater(s). It is also important
 that you give your call sign by
 voice immediately after sending any
 codes. It is suggested that for the
 present you use 147.075 for TTES.
 =PARC=

- AGOGO - K6HAV/KI6JM/W9FQN
 (1-91) ...Dec attendance 61

..Pres-Stan-W9FQN, VP-Jack-KI6JM,
 Sec-Nash-W6HCD, Treas-Benton-KK6LX,
 Editor-Stan-W9FQN, Membership-Jo-
 KB6NMK, SANDARVEC-Rusty-AA60M
 ..obtained 14ea 1,680Ahr cells @
 350 pounds each thru Larry-WA6UTQ
 ..145.05 digi changed to NODE ..1st
 Vista patch connection established
 ..PARC members in Saudi ..report of
 Dec 10m contest at our FD site
 location ..8 PARC nets ..advertis-
 ers were PALOMAR ENGINEERS, W7HKI-
 Larry, and HRO.

(1-86) ...President Stan Rohrer-
 W9FQN, VP Larry de Montegre-KB6DNR,
 Sec Phil Leonelli-WF6L, & Treas Ron
 Wilhelmy-WI6B ..editor Ralph Cross-
 man-K6HAV ..membership 290 ..meet-
 ing attendance averages 1983 (54),
 1984 (57), and 1985 (67) ..Duane-
 WB6R net control of morning commute
 group on 146.73 ..those club
 members with address of San Diego-
 22%, Vista-20%, Oceanside-10%,
 Escondido-6%, Fallbrook-6%, San
 Marcos-4%, El Cajon-3%, Carlsbad-3%
 Encinitas-3%, Santee-2%, and other-
 21% ..Dec mtg Dave-WB6LLO talked on
 satellites ..John Tentor-W6OLQ
 outgoing treasurer ..problem with
 Chico, WB6HMY's four-legged piranha
 ..replacing 10 yr old Standard
 repeater on 449.425 ..2ea used
 Motorola MSY repeaters bought for

\$350 each ..Editor changes 8.5x17 SCOPE over to 8.5x11 ..SCOPE is 10 pages ..meetings at Glendale Federal in Vista ..advertisers CALCO COMPUTERS, COIN ART (KB6DNR), HAM RADIO OUTLET, HIWAY CO, WESTCOM, and PALOMAR ENGINEERS ..Jan mtg to be at Mt Vernon Inn in Escondido. =PARC=

- L A S T M E E T I N G -

Attendance was 110 members & 16 guests for a total of 126.

Wayne Overbeck, N6NB, gave a wonderful talk and slide presentation on his efforts over the past 20 years at mountain topping with minimum equipment and with MAXIMUM effort. He also showed us his moonbounce arrays and how he was able to make contact from two different states within minutes. =PARC=

- Jan. BOARD MEETING -

BOARD: KC6UQH W6GIC KC6YSO WB6IQS W9FQN KC6WAN AB6QT WB6PKK.

OTHERS: KB6MCU (ATV & Training), & N6ALA (12vdc interfaces).

The 7pm meeting was at Stan-W9FQN's QTH and started at 7:12:30 and ended at 9:17pm.

Stan served drink and high fat cookies.

- SECONDS -

DISCUSSED: Year 42% completed and most accounts near where they should be for this time of the year; \$ 4,908 Equip. Bal; \$ 8,277 Gen. Purpose; \$ 3,226 Pre. Paid.

APPROVED: 60th anniversary cake & Feb program \$50; 60th yr plaque; Feb program; Tech meeting 14th Jan; Feb Board Mtg W9FQN; & Yaesu 227R for packet \$50.

DISCUSSED: DC gas 12hp generator; FD discussion; ATV discussion and demo; Interference DFing; Advanced classes; Membership 845; AC Noise at FD site; SK estate problems; Trustee change letter sent; turnbuckles obtained by W9FQN free; trailer update; possible patch problems; newer form for treasurer's report; WB6PKK's PARC 145.05 mod; & a good time was had by all (almost).

Next board meeting at Stan-

W9FQN's QTH in Valley Center.

Contact a board member 4-info or C Secretary 4-minutes at meetings. =PARC=

Thanks to:

It is ok to bring GOODIES AGAIN! THANKS TO THE GOODIE BRINGERS FOR HELPING MAKE THE CLUB MEETINGS A BIG SUCCESS: AA6EE, KE6WOK, & N6TCB.

The goodies were great and you were rewarded with ONE participation ticket. =SK=

Ted-KD6AKT and Jim-KD6IVF for pretending that the interfering station on 146.73 was not bothering them (if the timeout timer is off, quick key so that you cover up the interference ..and they did that - Ed).

Frank Littlefield, KE6WOE, who has set up a PARC's World Wide Web address and to Rod-AC6V for feeding him Ham connection information.

Bill-W6MK for the never ending supply of W5YI reports which keep your editor (and the board) up to date.

George-K6YGK & Dennis-N6KI for a "goodie" packages of interesting magazines. I read them all and file many of the articles for future use. =PARC=

If we miss anyone, please let your editor know WHO and WHEN. =PARC=

V E T E S T I N G Rusty-AA6OM
10/14/95: N4BBF(4A), Doug Anderson (Adv), Mike McCann (2), Janis Frazee (Tech), and KE6VUN (Adv).

Examiners: AA6OM, WA6HYC, AA6UQ, K06IQ, KE6VX, and KI6JM.

12/09/95: Tested 8 candidates for 13 elements with 6 passes & 0 no-show.

GEN to ADVANCED: KE6ZXM.

NONE to TECH: Chris Baldwin & Barbara Uran

Other: KI6IM(4B) & Bill Schiefer(2).

TEST TEAM: WB6R, K06IQ, KI6JM, AA6OM, WA6HYC, AA6UQ, and KE6VX.

01/13/96: Tested 10 candidates for 18 elements with 10 passes & 0 no-show.

NONE->TECH: Ami Clifford, Barry Himes, Bill Wright, Gil Hawkins, and Ken Pichette.

OTHER: Dan-KE6YKS(3B), and Roger Johnson(2)

TEST TEAM: KB5MU, N6ZUC, KI6JM, WA6HYC, K06IQ and KE6VX.

73, Rusty-AA6OM =PARC=

- N E W S - etc.

Contributions by the 20th)

Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes, or hand them to me at club meetings. =SK=

Vic Zech, KD6OHT, was recently heard back on 146.73 after being absent for about four months.

Don't use walkie-talkies within three feet, or cellular phones within one foot of electronic equipment and cables. =SK=

Recently there have been comments about "repair" times for various makes of HT's, and mobile units heard on our repeaters (also include HF units). Please contact W9FQN and let him know if you were satisfied or not satisfied with the work being done by the company on mal-functioning equipment. We will publish this information so that those considering new equipment can take this under consideration. Repairs are an important part of the item you buy. =SK=

It looks as if Orange County's 800MHz police/fire repeater system is in real financial trouble and might not be built (LA Times). =SK=

House Speaker Newt Gingrich (R-GA) said recently that the FCC should be phased out over the next three to five years. (Microwaves & RF, Jul95).

SANDARC VE exams in SDCo are scheduled EVERY Saturday of the month and their cost is -\$0- to take any exam. The ARRL and W5YI VE exams usually charge up to \$5.90 per exam session. The costs are paid for out of each member club's share of the profits from the South West Division Convention held in San Diego. =SK=

BAJA CALIFORNIA: in the event of an emergency in the Cabo area, you might try 14.340 MHz noon local

The NiCad Lady **N6WPA**

*Battery Pack biting the dust?
Get your power source rebuilt
with NEW higher quality cells!*

*Up to a 50% Savings over the
cost of a new pack!*

- Radios
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- Test Equipment
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time. There is a controlled network that specializes in handling traffic to the west coast of Mexico and the Pacific. The net controllers are very efficient and helpful and are familiar with Hams in Baja and the mainland. XE1/KB6ASH is equipped with back-up power (d. Gayle-KM6WF). =SK=

WOW! Our first 7:15am morning commute pile-up on 449.425 saw Chev-KE6URU, Mike-KD6VHI, Starr-W9FQN, Roger-KE6NAN, and Larry-WA6UTQ all in the same conversation..and Barbara-KA6FPS/m as a monitoring having previously been on the air. =SK=

PRESIDENT's WAVELENGTH, Art-KC6LQ

I received a letter of resignation from Susan, N6QDB, our treasurer. Susan has accepted employment in the Los Angeles area in a career move she could not turn down. We all wish her the best of luck in her new position. I have appointed Shawna, KE6ZXP, daughter of Mike, AB6QT, to the position of Treasurer. P.A.R.C. will loan her our 386 computer and she will be working under the tutelage of Ralph, KC6WAN, who spent most of his adult working life as an accountant. I have the unanimous support of our Board of Directors for this appointment. Shawna is very energetic, enthusiastic, and willing to learn new skills. Under

Ralph's direction I feel confident we will have an excellent Treasurer.

The City of Carlsbad is drafting an antenna ordinance. Rusty, AA6OM has agreed to work with the Principal Planner of Carlsbad, giving him input to the needs of the Radio Amateur Community. I have appointed Rusty as the P.A.R.C. Representative to the City of Carlsbad. Rusty is looking for comments from Radio Amateurs in the Carlsbad area. Please contact Rusty if you currently live in Carlsbad.

Rusty has for 5 Years has done an outstanding job managing our Volunteer Examination Testing Program. We all are deeply indebted to Rusty for the work he and his team of volunteer examiners do for our club. Rain or Shine every second Saturday our club offers free testing to all who wish to be licensed Radio Amateurs and Radio Amateurs who wish to upgrade their licenses free of charge. The Work does not stop after the testing. All Forms must be completed and filed with the F.C.C. This is a laborious job that requires making sure that all paperwork is correctly submitted down to the last i&t. When the U.S. Government became embroiled in a funding chaos, all Amateur Licensing activities stopped, making Rusty's job more difficult. I expect it will be months before the F.C.C. employees regain their morale and License processing returns to normal. Please take the Time to extend a personal Thank-You to Rusty and his Team for a Job well done.

Our Volunteer Exam program is accredited through The San Diego Amateur Radio Council Volunteer Examiner Coordinator group. SANDARC of which P.A.R.C. is a member, is a non profit organization that supports the 465-EXAM message, provides materials for our exams, and emergency radio equipment for San Diego County on a as needed basis. SANDARC's only source of revenue is the ARRL South West Division Convention held in San Diego every four Years. Each SANDARC Member Club appoints two voting repre-

sentatives to the Board of SANDARC. We as a Member of SANDARC encourage our members to support the Convention and help SANDARC to continue free license exams in San Diego County.

The one difference between the Amateur Radio Service and most other Radio Services is the Amateur is able to make repairs and adjustments to his equipment and antennas. The ability to keep your station on the air in an emergency is a National Asset. Each Year we practice this art in our annual Field Day Competition. Not every Amateur is technically inclined and we need Operators as well as Technicians. As we have placed extremely well in past Field Day exercises, the time to start practicing for this event is now. We never know when and emergency will come and we do know Field Day will be here the last weekend in June. If you are technically inclined, I suggest you buy an old radio and experiment with it. Build some of your own antennas and test them on the air. Learn how to make performance tests on your station using simple test equipment. If you have problems bring them to the Ham Help Net on Thursday night. An improperly connected Radio will fail, a detuned antenna will not work well and could cause a radio failure. Having more radios will not solve the basic problem of a poorly set up station. Knowing how to setup a station will.

The Palomar Amateur Radio Club has constructed most of it's repeater equipment using converted commercial radios. We have had some of the most reliable Amateur repeaters in the area. This is a testimonial to the Amateur Radio Operators who have constructed these Repeaters. We need to carry on these P.A.R.C. traditions. We need to cultivate and enhance the skills of new Amateur Operators to maintain our repeaters, help with Field Day, and encourage others to follow in their foot steps. While learning to build some of our own equipment is a time consuming expe-

rience, the knowledge gained is a priceless commodity that cannot be purchased. Only those who try, can experience the joy of self improvement and accomplishment.

Our Club has several projects that are waiting for manpower to place in action. If you wish to help please contact John, WB6IQS, Stan, W9FQN, or myself. We have eight Motorola Micor VHF radios that need to be converted to two meter operation. We need help with the trailer project. Our goal was to have the Emergency Trailer ready by February so that members can practice operating this year during contests before Field Day. Contact Juan, KE6KNN or A.J., KB6NML, to apply your knowledge in the physical form and place this project on the fast track. We also need to construct some voice memory units, foot switches, and head set connections for Field Day unless our phone operators want to become hoarse again this year.

Art, KC6UQH

M E M B E R S H I P Ralph-KC6WAN

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

The Board has authorized me to take "surplus" or "un-used" years from club members who have died and apply them to YOUNG hams under 18 who have no other ham in the immediate family. For example, Franke Ramme's (WB6HFE) membership was good till 1998 and it will be used to SPONSOR one or two YOUNG hams in the San Diego area.

PLEASE PAY YOUR MEMBERSHIP DUES BY CHECK AND NOT BY CASH ..if at all possible!

NEW/RENEWED MEMBERS:

4yrs= none

3yrs= N6KC-Richard

2yrs= none

1yr= Glenn-Simpson KE6YYM-Larry
Bill-Jeffrey/family KE6ASO-Troy
KE6UPQ-Mat WQ6V-Larry (hi Larry,

can you come out to play?) WA7WZL-
Bob KE6KTF-James KE6DUO-Jim KE6ZIN-
Jan KJ6MP-Ron KB7ZCU-Barbara KF6C-
Brian K06BX-Morris KC6RNV-Doc &
KJ4KK-Daryl.

CHANGES: none.

If U didn't C UR name/call here but U received UR SCOPE, then L R A MEMBER!

To receive a point for sponsoring a new club member you will need to instruct the potential new member to write on his application that you are the sponsor. Otherwise, your editor is not aware of points to be awarded to members.

Recruiting points to: Mark-AA6TR(2/2) for KJ7MP & KB7ZCU; Cynthia-KD6TBY(1/2) for KC6RNV; & Dennis-N6KI(1/1) for KE6ASO.

73, Ralph 727-7415 =PARC=

P A C K E T Ted-KD6AKT

There are many new (and old) hams who would like to get into packet or use their packet setups more effectively.

I am at most PARC meetings with my portable packet station and I am more than happy to explain what is needed in a packet station, give demonstrations, or tell you "where to go" to get answers to your problems.

I set the portable station is set up in the RACES/ARES station across the hall from the main meeting room. I am usually there before the meeting, during the meeting, and after the meeting ..if there is sufficient interest.

You can learn how to access PALBBS and its many information areas, NODE hop, use 145.05 and 146.7(-), etc. ..and have a lot of fun!

In emergencies, we will need experienced packet operators at disaster sites, hospitals, and command centers. Helping people in times of emergencies is one of the things we do to "justify" our the use of our frequencies. =PARC=

- H I K I N G N E T -

Recently there has been some interest by club members in a hiking net.

The purpose of the net would be to provide a meeting place for hams who like to hike so that they can coordinate hikes within San Diego County and surrounding areas.

At present it has been proposed to use 146.730 on Friday evenings at 9pm. The net would be used to plan hiking trips during the coming months and to "finalize" the hike for the next day (Saturday) or Sunday.

It would be nice to have experienced hikers who would be willing to take groups on hikes that they have taken before so that we have at least one experienced hiker in the planned hike who knows where to go ..and how to get back! The hikes are not sponsored by PARC. PARC is only providing a net time for anyone who is interested in hiking.

Almost anyone could go on the hikes: PARC members and their families and friends.

This net would be operated on a "trial" basis for February and March to see if the net really meets a need. =SK= =PARC=

1 4 6 . 7 0 0 (-) P A C K E T

Several adjustments to the 146.7(-) packet REPEATER have resulted in better operation and have increased signal strengths throughout SDCo. Try it. You will like it!

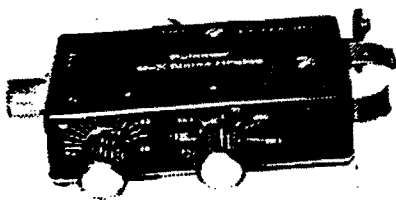
146.7 is great for entering PALBBS (W6NWG-3) (ie C PALBBS) and for direct contacts (ie C KD6AKT) with other packet stations.

With 146.7(-) there are no "hidden NODES" or "hidden pkt" stations. Low power has equal chance with high power stations.

You can only connect with PALBBS thru 146.7(-) and direct contact with other packet stations. There are NO OTHER packet repeaters or packet NODES on 146.7(-). We are the only TASMA coordinated packet repeater on this frequency so it is a clear frequency as far as packet is concerned.

It is true that in the LA area there is a teletype repeater on this frequency and we also hear a

R-X Noise Bridge



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$79.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preamplifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

PALOMAR ENGINEERS

Box 455, Escondido, CA 92025
Phone: (619) 747-3343

weak voice repeater to the north from time to time. =PARC=

HIGH FREQ REMOTE

At the January technical meeting, Bill Smith KB6MCU, again offered the use of a remotely controlled 3.5MHz to 30MHz station for club use at the club's repeater site.

Several years ago, Erik-KA6UAI, operated a 10m remote from the 147.13 repeater.

(your editor remembers hearing a club member walking around lake Poway talking two a ham in New Zealand while walking around the lake with his 2m HT!)

We would have to decide if the remote HF station would be controlled via the phone system or through a radio link.

For those club members who have strict CC and R's, you might find such a remote HF station a way of hamming on the HF bands.

You would be able to control the station with touch tones or possibly through a modum.

The club is concerned about "access" problems and proper station operation and so there would be rules that would have to be observed.

The station would have dipoles for 80-40m and a tri-band beam for 20-15-10 with complete rotational control from your home QTH.

If you are interested in this project AND interested in helping with the work that needs to be done, please contact Stan-W9FQN. If there is little interest, the project will be dropped (again).

REPEATER TECHNICAL John-WB6IQS

The repeater technical committee met January 14th and discussed the following:

52.68: move antenna location, check grounds, and add lightning arrestor.

145.05: install new NODE chip and packet deviation monitor, and new emergency NODE.

146.7: checking out addition of DSP filter. and new emergency repeater.

146.73: muting all tones(TT), quake detector, automatic announcements, and new PA.

147.075: automatic 110vac -> 12vdc, new cabinet, and mute all tones.

147.13: automatic 110vac -> 12vdc, increase IDer tone level, and rcvr pre-amp.

224.38: linking possibilities, phone line, and lightning protector,

224.9: antenna pole work, and lightning protector,

PACKET METROLINK: check proper operation.

449.425: new repeater (replacement), mute all tones ASAP, addition of "brick" final amplifier, and addition of DSP filter for radar.

CONTROL: packet METCOM

connection for measuring voltage and climate, automatic computer operations, and new control unit.

AUTOPATCH: automatic section selector, and automatic user dropping function and/or time limiting,

ATV: relays of LA ATV, locations, and frequencies.

PALBBS: frequency and filter problems.

PALEMG(ARES DATA BBS): get it up and running.

OTHER: modification of 2m transceivers,

HF REMOTE: advantages and problems of HF at the repeater site. Offer by Bill-KB6MCU.

If everything is completed in 1996 we would be spending about \$3,300. =PARC=

Jerry-WB6FMT PATCHES Stan-W9FQN

During the week of January 14th, it became evident that the patch down link from Palomar Mt. did not have FULL audio on it resulting in everything heard on the repeater being normal but that the audio going down to the patches was either 100% or 2% resulting in the person on the phone line only getting bits of words or nothing at all.

A "high resistance" relay contact was suspected and Jerry-WB6FMT and Stan-W9FQN went to the mountain on the 17th to replace the suspected board with the problem relay. The patch was turned off at 9am on the 16th and back on at 11am on the 17th.

We apologize for any problems that this might have caused any of the patch users. =SK=

When closing the autopatch, please press the "*" button for at least one second so the EVERYTHING shuts down properly. =SK=

NEW MEMBERS should probably confine their first autopatch attempts to 147.13(-) with a PL of 107.2Hz during the late mornings (10-11am) or early evenings (7-8pm). The 146.73 repeater is a bad one to learn on since it is a high usage repeater and does not require a PL to operate but does require one to

use the autopatch which seems to cause confusion to many new members. =SK=

Also NEW MEMBERS should request an AUTOPATCH INFORMATION SHEET for the four autopatches describing codes & areas covered by sending a SELF ADDRESSED STAMPED ENVELOPE (SASE) to W9FQN (see Editor) with ur PHONE # & CITY ..or see me at the next meeting. =PARC=

REPEATER OPERATIONS Stan-W9FQN

There presently is some "jamming" on the 146.73 repeater in the late afternoons (5:30?) and early evenings. It needs to be remembered that PARC seldom has jamming and that the length of its stay depends upon how our members RESPOND to it. If you ignore it and/or work around it, the jamming goes away. If you mention it or talk about it, it stays longer.

PARC has DFing (direction finding) teams but does not call them out until they have the following information:

- locations of high signal strength
- several directional bearings
- information on several times when the interference can be expected.

How can you help?

LISTEN ON THE INPUT of your transceiver (ie 146.13 for the 146.73 repeater). Hit your reverse (REV) button to listen to the input or program 146.13 into a memory next to 146.730 (do not use PL decode).

Turn your beam for greatest signal strength. Rock it back-and-forth to confirm the direction. Be sure your beam is calibrated before giving directions.

If you have an HT, stick it in your stomach and turn several 360 degree rotations noting your position when the signal "drops out." Your body serves as an "absorber" (some more than others). At "drop out" the offending station is directly 180 degrees from the direction you are facing. (DFing classes are held each year at the club's picnic).

Beam headings and signal strengths are great but after the

general area is fixed, beam headings and signal strengths are of little value unless the offending station is moving or you are part of the mobile DFing team.

PHASE I: location of general area (ie Vista, Poway, etc).

PHASE II: Phase I ends and DFing teams go to the designated area and begin the search.

We need the times of probable operation since in some cases we have to have a DFing team in a given area waiting for the interference to begin. It is almost impossible for a team to drive 20-40 miles and still expect the offending station to still be on the air. DO NOT ENGAGE (or acknowledge) THE OFFENDING STATION UNLESS YOU ARE REQUESTED TO DO SO BY THE DFING TEAM.

Why not join one of the DFing teams and HELP us. If you are in a high signal area you can start the DFing process for us. It only takes an HT and a little knowledge.

DFing TEAMS CANNOT DF SIGNALS THEY CANNOT HEAR! They need help. Give them all of the information you can find about what you are hearing. Then contact KC6UQH, W9FQN, KB6NMK, or a Board member by phone. If the interference is not malicious, it is ok to use the repeater(s) for collection of information. =SK=

Please do not mention that there IS or IS NOT a "beep" on the repeater. It should be obvious! Why give a "jammer" additional information about our repeaters?

The BEEP means that the time-out timer is engaged and the repeater will "kill" in less than 100 seconds if there is continous RF input.

No BEEP means that the PL is turned off and there is NO time-out-timer engaged so other interfering signals will not "time-out" the repeater. YOU DO NOT NEED TO WAIT FOR THE BEEP SINCE THERE IS NONE! Just "key-up" after one second and cover up the interference. Do not sit and listen to the interference but do listen on the input of the repeater to see if it

is coming from the area that you are in ..and then report your location (and bearing) to a Board member.

DO NOT TALK ABOUT THE BEEPS!

This is done when there is interference or the possibility of interference so that the interfering station(s) (deliberate or incoming from the LA area) cannot disrupt communications by timing out the repeater. It is also done sometimes during the morning commute, PARC nets, and DFing activities.

DO NOT TALK ABOUT THE BEEPS!

If you talk about the "BEEPS" or the fact that the time-out timer is not engaged, the time-out timer will probably be re-activated and you or the interference will probably time out the repeater! We take OFF the time-out timer to HELP YOU ..but WE DO NOT WANT CREDIT for helping you.

Two consecutive "beeps" (within .5sec) means a control operator has either turned off the time-out timer or has turned it on.

DO NOT TALK ABOUT THE BEEPS!

(IF WE TOLD YOU ONCE, WE TOLD YOU A HUNDRED TIMES IN A HUNDRED DIFFERENT WAYS!) =PARC=

WORK PARTIES Stan-W9FQN

There will be no organized work parties at the site until Spring except for emergency trips to the mountain or individual efforts by small groups. =SK=

(1-?) #1 Bill-KB6MCU visited the site for minor ATV adjustments and to install an ice shield over our coax runs entering the freezer building.

(1-17) #2 Jerry-WB6FMT, Bob-WB6YZR, and Stan-W9FQN dashed to the repeater site on Palomar Mountain. The weather was COOL but we had several hours of warm sunshine.

Jerry changed out an autopatch card which appears to be the source of patch problems the past several days.

Bob and Stan installed three turnbuckles completing the three new guy anchor instalation. The top



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!



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two guys (x3) were adjusted to 100 lbs tension and the bottom guy (x3) was tensioned at 400 lbs. The lower guy is STIFF wire and reads 180 lbs tension just laying on the ground!

The tasks were simple but we were gone from 9:30am until about 3pm and we did not even stop to eat.

(1-25) #3 Bill-KB6MCU replaced a receiver in the ATV. He had to brave 5" of snow into the site and then discovered a leaking roof in the frig building. Bill fixed (temporarily) the leak with a tarp.

FORESAIL

Give me a Long Wave!

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. PERSONAL ads



FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

Block ads: business card (1/3rd col.) \$5; 2/3rd col \$10; 1 col \$15; 4 card size (almost 1/2 horizontal page) is \$20 per issue. Billed Feb, May, Aug, & Nov.

Kevin Sanders, KN6FQ, in Escondido is now handling PARC's extensive tube bank. Contact Keven at 432-8381 for availability and prices.

***** NEW ADS *****

(1-26) HAM ESTATE SALE: 12' rusty roof mount mast \$5; 15' rusty single sec twr \$5; 1kw new Bird 50ohm dummy load/watt meter \$125; 55' Tri-Ex rusty 3-sec crankup twr \$35 NTLC; 10m home made 4-el beam \$10; heavy duty 12" blades Roto-tiller \$150; near new Mulcher-shredder Chipeawa \$300; Hallicrafters mod TSW-1000 am/sw portable rcvr \$15 NTLC; Gonsett Communicator CD 2m AM \$20; Collins mobile mics \$2.50/ea; B&K 10mhz ss o'scope, dual chan, 1476A w/man \$50; HP 5212 audio freq counter \$Make Offer; HP 524 o'scope (room heater) \$M0; Fairchild o'scope incomplete mod 766MH \$M0; Grid Dip meter EICO 710 w/man & coils \$15; All sorts of test equip, generators, signal tracers, TV repair equip, tube tester, flyback yoke tester, CRT tester, most with manuals, all AS IS plus many other goodies too humorous to mention: (NTLC = Needs Tender Loving Care); (all items \$\$ or Best Offer); John WB6IQS 727 3876 Vista.

(1-23) KENWOOD TS-520s xcvr ex/cond w/Shure desk mic: Jo KB6NMK 741 2560 Esc.

(1-22) CUSHCRAFT AP8 with APR18 radial kit covering 10-12-15-17-20-30-40-80m \$50; James N8NHY 967 6313 1v msg. (1-20) MFJ-945c Versa Tuner II: Jo KB6NMK 741 2560 Esc.

(1-18) KENWOOD MP-100 mounting bracket for TS-130: Jo KB6NMK 741 2560 Esc.

(1-17) 2ea Commodore C-64 computers, 2e 1702 monitors, 3ea 1541 disk drives, 1ea C-128 computer, Gemini 10x Dot Matrix printer, Microline 92 D.M. printer and lots of software, \$125 all or nothing:

Dale KC6WZI 222 2218 S.D. leave msg.

(1-4) Hamond Organ with course was \$2300 now \$400 or trade for HF/UHF equip: Steve W2MRM 451 5690 R.Bernardo.

(1-4) KENWOOD TS-440s/AT; KENWOOD PwrSup PS-50; KENWOOD Spkr SP-430; Butternut Ant HF6V (10-80m); Various Ant Tips for Hustler: Joe N6RVO 433 6885 Ocsd.

(12-22) Super ant twr used for wind tower near Palm Springs 72' (base 9' top 2') 3250 lbs @ \$1000 & 112' (base 13' top 2') 5125 lbs @ \$1500 ea hinged at base. Jim Burton N6UFE 714 645 9849.

(12-22) ALPHA 374A 2kw HF amp \$1250 or will consider trade on Kenwood 940/440. Dennis N6KI 271 6079.

(12-15) 16MHz 286 IBM Clone 40MB h/d modem EGA monitor \$250 Tony 223 8077.

(11-09) IBM compatible OKIDATA 192+ NLQ dot matrix printer, stand, paper, parallel cable & manuals \$49: Howard WB6AKM 453 3156N or 642 2400 x 1201 Days (SD).

(10-23) KWM-2+pwr supply ex cond: Joey-NU6L 749 0276 VC.

(10-19) Heathkit SB-100 100w tube transceiver. Great first rig. Call for price. Stan W9FQN for PARC 749 0276 Villy Ctr.

(10-03) Power supplies 5v@2A-35A \$5-\$35: Mike (mountain) AB6QT 742 1573 PalMt.

*****-OLD ADS PRINTED ON ODD MONTHS
***** WANTED *****

"A piece of history"

(1-26) Help with a TH-28A HT. Please call Rick and Lani 489 1126 Esc. (I hope they come to the Feb7th club meeting -Ed).

(1-26) HyGain Telex HAM IV Rotor: Troy KE6ASO 287 3910 SD.

(1-26) Anyone interested in Astronomy or telescopes of any kind for general interest activities and cooperation up to projects and observatories: David L. White/PIRA 724 5671 Vista.

(1-24) RANGER II, C.E. 200V, and other old tube gear especially receivers for serious educational station: David L. White 724 5671 Vista.

(1-12) FEX767-2 & FEX767-6m modules new or used for Yaesu FT-767GX: James N8NHY 967 6313 leave msg.

(12-25) Hewlett-Packard database program formatted for IBM called Executive Card Manager (ECM). Nash W6HCD 940 1028 Bonsall.

(12-22) IRC 2.1 KHz filter(s) for Kenwood 940/850. Dennis N6KI 271 6079.

(10-25) Daisy Wheel printer that can do graphics: Bill IM2NUT 122 1004

(10-20) 220 mobile with PL: Bill N6FMK 941 9492 Vista.

OLD WANTED PRINTED ODD MONTHS =PARC=

P.A.R.C. H I S T O R Y

PARC is a very old amateur radio club and as such we have collected many items of historical interest. The following is from a pocket notebook apparently from the end of 1976 and into 1977 written by Bob Heitger, W6KZN, PARC president. It mostly concerns the building of the club's block repeater building on Palomar Mountain, the first antenna pole, and the first and only commercial repeater bought by the club.

- - - - -

EXECUTIVE COMMITTEE: Herb Wandschneider-WA6SVN-prizes; Paul DOREY-WA6EJL-Field Day Chairman; Bob HEITGER-WA6KZN-President; Walt Lockhart-W6SCI; Bob Findlay-W6NZX; Fred Spiegel; Jim Church-K6SLA-Treasurer; Bill Countryman-WA6AEZ-Secretary; Max-W6DEY-Hospital; Dick-WA6SCV-new repeater building; Ed-WB6WQI-Public Relations; Ralph Crossman-K6HAV-Repeater; Frank-WA6HPP-Rep to SDARC (SANDARC? -Ed); Jane Rice-WA60ZS-Publicity; Jack-W6BLL; Burr-WA6VYD-Flea Mkt;

12-11-76 Xmas Party: WA6AEZ, WA6SCV, WA6SVN, W6INI, W6PZU, W6HZJ, WB6IXQ, WA6KAR, WA60ZS, WB60ZT, WB60JF, WA6KZN, W6DEX & W6PAU. Should we continue the Christmas party?

Found a card indicating 113 full members and four associates but no date (1977? -Ed).

Sat 1-29-77: 8:30am at Phil-

K6ROR's QTH ..take repeater equipment down ..antenna in attic.

9:15am departed for Palomar Mt in two cars ..arrived 10:25 at site ..cleared brush at the site ..left 12:05pm.

Bill Taylor-K6TQ donated HW-18 xcvr to repeater fund.

4-16-77 poured footing and laid first course of cement block.

Pole (telephone) 67' from building.

4-23-77 arrived 9:30am & finished 3pm: John Campbell-WB6HSZ, Herb Smith-WA60JD, K6SLA, Jack-WA6NGZ, Dave-WA6HQM, WA6KZN, Dave, & Earl-WA60FK.

(Editor's note) Dave-WA6HQM a present member of PARC related recently how he got a very bad case of poison oak while working on the block building. We have never seen the stuff so we wonder where Dave picked it up!

John Kuivinen-WB6IQS's name shows up for first time ..something about antennas.

4-30-77 Sat.finished off the laying of block: WB6HSZ, K6SLA, Bill-WA6AEE, Ray-WB6PPB, WA60JD, WA6KZN, Earl-WA60FR ..called and told Ralph (K6HAV?) ..ended 6:20pm.

5-14-77 Sat. poured grout and put on roof plates: Jack Swoder-WB6DYV, WA60JD, WA6KZN, WB6HSZ, K6SLA, WA6AEZ, WA6EJL, & Gene Ross-WB6JDT.

5-27-77 buying a 90 watt continous Motorola repeater in case complete w/4 section cavity:

\$ 3,120 repeater sys \$ 29 freight
\$- 600 cavities \$151 tax
\$ 2,520 repeater cost

\$ 2,700 cost of repeater

7-16-77 Sat. digging ant mast hole ..putting on door frame and painting building: W6SCI, WB6JDT, WA6EJL, WB6HSZ, Bob Finley-W6NZX, Bill Salter-K6GJD, N6IE, & WB6HFE.

7-30-77 to Mt ..power cable buried but line crew hasn't connected to line yet ..put up antenna: W6SCI, WD6AFJ, WB6JDT, Paul-WA6EJL, & WA6KZN.

8-27-77 left 8am to Mt for trash hauling: WA6AEZ, W6BLL, W6SCI, WA6KZN, & WB6HFE. Returned to Carlsbad at 3pm.

8-9-77 depart WB6HSZ 8am ..shovels, axes, hatches ..arrived 9pm: W6SCI, Felix-N6IE, Frank Ramme-WB6HFE, W6BLL, WA6AEZ, WB6HSZ, WA6KZN, Willis-WD6AFJ, & Bill-WA6GLH. Completed 67' of power line trench through tree roots at 1:50pm.

8-16-77 to PMT for digging antenna mast hole: W6SCI, WA6EJL, WB6JDT, & W6NZX.

8-16-77: John door; Frank Ramme & wife painting; Felix & wife photos; Mel-W6IXC turk with water; N6IE cement; Earl-WA60FU concrete mixer; W6SCI; WA6KZN 3/4th ton truck haul .5yd gravel 3/4"; WB6HSZ hang door.

9-5-77 Labor Day ..put new repeater on Mountain: W6NZX, W6SCI, WA6KZN, WB6JDT, & WB6RWP.

Cabin is being built next lot to repeater site.

12-10-77 Brush and trees, bring pruning shears, truck & trailer: Don Johnson, Fred Kokaski, Willis Palmer, Walt Lockhart, Bob Heitger, Felix Feranto, and Hod Luhn.

Bill Dewey-WD6AHW's name and address listed ..sent two copies of PARC application.

This ends the little black book's notes.

A license for the repeater was found dated 11/01/77 with expiration date of 11-02-81 with the call of WR6AII and trustee was James A. Church of Vista.

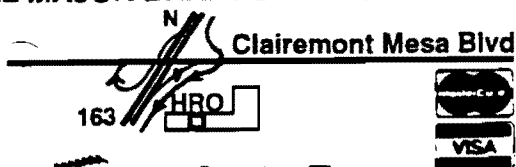
Editor's notes:

Names have been deleted after name and call appeared once ..the \$2,700 Motorola repeater was the 146.73 repeater for many years and then was changed in '93 to 146.7-RTTY ..and is now our 146.7- packet duplex repeater ..so the repeater is now almost 19 years old and still being used ..WR6AII was the first call and was later changed to W6NWG/R.

Since the first commercial repeater, our repeaters have cost us \$15 for the transmitter and receiver, \$80 for the controller, plus about \$100 for crystals and small parts for a total of about \$200 per repeater. Our repeaters have been built by John-WB6IQS (4),



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Mike-AB6QT (2), and Jerry-WB6FMT (4) autopatch repeater units and 2 repeaters of his own). At 1977 rates this is about \$27,000 worth of repeaters for PARC's cost of \$2,000 (plus a lot of knowledge) and pure sweat by great technical club members.

PARC previously operated a 146.73 repeater from the general location of Vista and then it was moved to a cabin near the present site. The cavities were made out of Camp Pendleton shell casings and silver plated inside. The new Motorola repeater was bought for the new block building in 1977.

The antenna mast hole was for the steel angle iron base which is still to the left of the block building and supported a steel pole with a 2m collinear, control antenna, and then the 449.425 repeater antenna. The pole was taken down in 1984 when the 70' tower was put up. The angle iron base is now being used to support a 40' pole crank-up tower used for emergency antennas.

After almost 19 years the following are still club members: Paul Dorey-WA6EJL (Now WN6K); Ralph Crossman-K6HAV (Salt Lake City);

Art Smith-W6INI; Bob Heitger-WA6KZN; John Campbell-WB6HSZ; Dave Copley-WA6HQM; John Kuivinen-WB6IQS; Felix Feranto-N6IE (club member until 2004!).

A recent club member: Bill Taylor-K6TQ (Vista).

We assume the following are still alive: Bob Findlay-W6NZX (Salt Lake City?); Jim Church-K6SLA (?); Burr-WA6VYD (Oceanside?);

Corrections/additions to PARC's history are welcome. =PARC=

- 9 1 1 -

The 911 number is intended only for life-threatening situations, such as fires, a medical emergency, a case of domestic violence, a fight or gunshots. When you use it for some other purpose, you could be tying up a line that might be used to direct a response that could save someone's life.

PARC members sometimes have interpreted this to mean that while it is not life-threatening now, that it could be in a short period of time. An example of this might be a heavy object in the road that could cause an accident.

Seeing a woman along the side of the road with her car hood up is

not life-threatening. It could be life threatening if the car was in or near a lane of traffic ..or if it was getting dark.

The Sheriff's Communication Center can be a very busy place at certain times during the day and when there is bad weather.

Normally, two people are assigned to answer the 911 calls, and they pick the appropriate dispatcher to give the call to. If things get really busy, more dispatchers are brought on to answer calls. The shift lieutenant controls a master screen where information concerning the call appears as the dispatcher types in the information from the call.

It should be noted that often we amateurs get disgusted with all of the questions being asked of us when we report an emergency but it should be remembered that while questions are being asked, there is the probability that units are already rolling to the emergency ..if it is of high enough priority even as questions are being asked or repeated.

It is VERY IMPORTANT on autopatch 911 calls that you immediately identify yourself as an AMATEUR RADIO MOBILE station making the call. They need to realize that even though you are talking to them on a telephone line that you really are not at that phone LOCATION but that you are really MOBILE. If you are transferred to another agency, repeat that you are a MOBILE station since they do not always have access to the information on the dispatcher's or shift lieutenant's screen and might not know that you are a MOBILE.

If you are disconnected from a 911 call, you will need to call back immediately using the SAME 911 section (1,2, or3) that you used to make the original call or you might ask a base station to make the call for you giving him/her the autopatch section that you used to make the call originally. Be sure to dial 911 for the section of San Diego County that the emergency is in (1/2/3).

Normally, on 911 calls, a hang-up requires the dispatcher to immediately call the phone from which the 911 call was made (yes, its on their screen) to see why you were disconnected. If you call back immediately, you will probably find the 911 person on the phone looking for you.

When PARC's autopatches are in the 911 configuration, the time-out timers are disconnected with the exception of the repeater time-out timer which needs to be reset at least once every 100 seconds by a "kerchunk" from you (press your mic button for 1 sec). A "kerchunk" from you re-sets all remaining timers so that you can talk for an hour if you need to do so ..but you need the KERCHUNK to keep it all going!

If you have a 911 emergency situation while you are driving mobile, it would probably be best for you to ask a base station to dial 911 in the proper section where the action is taking place (1/2/3) for you, then you do the talking. For example: CAN A BASE STATION MAKE A 911 CALL FOR "URCALL" IN SECTION TWO? If you get no response, then you dial the 911 number yourself.

It is best for you to dial the 911 number while you are stopped at the side of the road as long as it is not dangerous to you or obstructing traffic. Many times the dispatcher asks questions that you can only answer by your seeing what has or is taking place.

What should you say? A good guess would be -

- a)I want to report a -----
- FIRE, INJURY ACCIDENT, drunk, etc.
- b)indicate any injuries.
- c)your exact location (cross St.)
- d)your name (and call), ur mobile.

-- KEEP CALM --

It might be wise to pause between (b) and (c) to see what is now of interest to them. If you mention the type of accident or emergency, the dispatcher knows more immediately about how to handle your emergency call. Your FCC callsign is probably not too

important but it would appear on our tape recording of the conversation which might in some cases be very important. Mentioning injuries near the beginning of the call allows the dispatcher to contact the proper emergency vehicles and get them rolling while they are picking up the remaining information from you. They always want to know the color and make of the car(s) and what lane they are in with the inside lane always being labeled #1 so that emergency vehicles approach the problem on the correct side of the road. If traffic is backed up on a freeway, they will need to get to the berm on that side of the road immediately upon entering the freeway.

If the address you give is not recognized immediately by the dispatcher, you should be prepared to give the cross streets of some better known streets to help them pinpoint the general area before zeroing in on the less well known location.

If you are reporting a drunk driver, you need to be very careful that your actions are not observed by the drunk driver causing him to become more of a danger to others ...and to you. Remember, you are not a policeman.

Following another car and reporting its actions to the police can be a very dangerous situation for many people. Your actions could possibly cause greater problems than the original situation would have caused.

Home stations should monitor all mobile 911 calls being made and copy the information down on a sheet of paper so that if the mobile station loses contact that you can step in and repeat the information that you heard being given. You can also explain to the dispatcher what the situation is with the station that has dropped out of the repeater because of location, power, etc. DO NOT LEAVE A 911 OPERATOR HANGING on an open telephone line!

Be aware that a 911 call (or any other call) on the 146.750 repeater

- continued on page 12 -



PARC Is On the Information Superhighway's *World Wide Web*

I imagine...a single source for getting the latest club news, reading the *weekly* ARRL newsletter, obtaining FCC forms, accessing call sign and QSL data bases worldwide, checking the CQ Contest Calendar, finding the latest ARES and RACES information, reassembling Packet questions, send electronic mail to PARC and an unbelievable host of other capabilities! *You have this source* now through the Palomar Amateur Radio Club's new *World Wide Web* (WWW) page on the Internet.

The PARC web page went into operation on January 2, 1996, courtesy of Frank, KE6WOE, who created and maintains the page as a donation to PARC. There is no cost to access the page, or to take advantage of the many services and information sources that it makes available to the user.

This powerful tool gives the Palomar Amateur Radio Club an international presence on the "Information Superhighway", and at the same time provides easy access to an incredible pool of resources that our members can use.



How Can They Do That??

Thanks to all who have provided input and suggestions for our Web Page. A special thanks to AC6V (Rod) for all the "surfing"!



The Palomar Amateur Radio Club Web Page is easy to access from your personal computer. And what a world of information it will provide to you!

Here's How to Access Our Web Page...

To access the PARC Web Page you must have a personal computer with access to the Internet, either through a direct internet provider connection or through an Internet gateway provider like *America On Line*.

With a direct provider, just point your **Web Browser** (*Netscape 1.1* or higher is best) at our URL:

<http://www.electriciti.com/parc> and our page will load. From the opening screen you can explore all of the resources listed.

If you subscribe to an information service provider like AOL, just select the Internet gateway connection and the provider's **Web Browser**. After their home page loads, type in PARC's URL instead of the provider's, and press 'Enter'. The PARC page will load.

Here's Just A Few Things You'll Find On the PARC Web Page...

When you first access the PARC Web Page, you'll see the familiar club logo, followed by a welcome message and a section that lists the latest changes to the page's content, and where you can find those changes.

Immediately below the 'changes' section is a line of "Buttons" to press that will take you to the club specific areas of interest. The first button goes to a short summary of PARC's history and what we do. The second is an interactive membership application, and the remaining buttons provide information on ARES, RACES and Classes and Exams respectively. The second row of buttons has a button for a list of all PARC and affiliated repeaters as well as a link to a listing of every repeater in the county. Next there is a button for the **Latest Club News** containing items of late-breaking interest to members, followed by buttons for a **Want Ads** page (sell that boat anchor!), and **Notices to Members** containing items of an "official" nature. The final button displays a list of all PARC Nets on a daily basis.

Below the buttons are text links to other **Web Pages** of interest to amateurs. Included is the ARRL page, a US Call Sign lookup page, a Contest Calendar, the TAPR Packet home page, FCC Forms (including 610 and 610V), Equipment Manufacturers' addresses and telephones, Radio Modifications and much, much more (try the "Everything Page")!

Questions? Comments? Email Frank at:
frankl@electriciti.com
frankl1359@aol.com

PARC Membership Application

| |
|--|
| AMATEUR CALL |
| CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW |
| ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO |
| LAST NAME |
| FIRST NAME |
| STREET ADDRESS |
| CITY |
| STATE ZIP |
| HOME PHONE |
| WORK OR OTHER PHONE |
| HAM LICENSE EXPIRES |
| FAMILY MEMBERSHIP (List other calls and names) |
| CLASS OF LICENSE N T T+ G A E |

Feb. '96 S.Call?:

(Sponsor's call not required)

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

SCOP E, US Post Office #076530
Published monthly by: = PARC, Inc.=
Membership \$12/yr including \$3 for
SCOPE inside SDCo (outside \$4).

1-13 Anniversary, YoungPeople, AGOGO
2-14 Last Mtg, Board, Tnx, VE, News
3-15 President,
4-16 Membership, Pkt, Hiking, 146.7
5-17 HF Remote, Rpt. Tech, Patches
6-18 Repeater Operations, WrkParty
7-19 For Sale,
8-20 Palomar ARC History 1976-7, .
9-21 911 Emergency Calls,
10-22 (continued)
11-23 PARC's World Wide Web Page, .

Jan. SCOPE FOLD/STAPLE

Editor: Stan Rohrer-W9FQN 30311 Cir.
R.Ln., Villy Ctr CA 92082 . Forms
KC6WAN, Ralph Powell, Printing, Labels
KI6JM Jack Hanthorn, Folding Refresh
KB6YHZ . Art Nye . Folding
KB6YHY . Anita Nye . Labels
N6WQR Bernice Rosenberg Folding
WA6Y00 . Harry Hodges . Staples
N6TCB . Jerry Carter . Labels
KB6NMK . Jo Ashley . Labels
Started at 12pm, ended at 1:55pm

- P A R C B O A R D -

Pres : Art McBride . KC6UQH 7418143
VPres: Sybil Albright W6GIC 2784284
Sec : David Doan . KC6YSO 2864888
Treas: Shawna Nemeth KE6ZXP 7440071
RptTec: John Kuivinen WB6IQS 7273876
SCOPE : Stan Rohrer . W9FQN 7490276
MemShp: Ralph Powell KC6WAN 7277415
Member: Mike Doyle . AB6QT 7421573
Member: Marvin Munster WB6PKK 7472223

VE Program: Rusty . AA6OM 7475872
ATV/Edu. : Bill . KB6MCU 5822313
PALBBS : Norbert KJ6ZD 6305538

Amateur Radio Today

IF CHECKED, SEE TOP OF PAGE!

being made for a FRIEND without their 107.2Hz PL turned on will FAIL. You will be able to dial the number for them and you will be able to hear the person on the telephone say Hello, Hello, Hello, etc but your FRIEND cannot be heard over the phone line even though you hear HIM over the repeater. For example --

YOU(with PL): you can access the patch for your FRIEND, and you can hear everything being said by your FRIEND. YOU can talk to the PERSON on the phone line and hear everything they say.

FRIEND(without PL): can talk but is only heard by YOU and those listening to the repeater with their receivers. Everyone can HEAR the 911 operator but your FRIEND cannot talk to 911 without the PL. ONLY sounds with a PL of 107.2Hz are relayed TO the phone line!

PERSON(911 Phone): can hear every thing being said on the repeater by stations using a PL of 107.2Hz except for the FRIEND you are running the patch for who does not have a 107.2Hz PL.

If this situation were to happen to you or you hear it taking place, step in and advise the 911 operator that the other station cannot be heard and that you will relay the information to the 911 operator for them.

IT TAKES A PL OF 107.2HZ TO ACCESS THE AUTOPATCH AND IT TAKES A PL OF 107.2HZ FOR YOUR VOICE TO BE PUT ON THE TELEPHONE LINE. (If we told you once, we told you a hundred times!) THIS APPLIES TO ALL PARC AUTOPATCHES. =PARC=

2nd Class Postage Paid
Vista CA 92085-9998

POSTMASTER: Return to -> S C O P E
P.O. Box 73, Vista, CA 92085-0073

60th Anniversary
Party

Mtg. 1st Wed of Feb. 7:30p Carlsbad Safety Center

Phone Codes
Deliver To

| | | | | | |
|------------------|--------|---------|-----------|------------------------------|--------------------------|
| Vista | Mira M | La Mesa | Fallbrook | Membership Expires PRC yy mm | License Expires LX yy mm |
| Palomar Mountain | | | | | |

C U There!



Scope

W6NWG

**Palomar Amateur
Radio Club Inc.**

Post Office Box 73, Vista,

California 92085-0073

MARCH ***** 1996 ** 60 YEARS OLD
Dues \$12, Volume XXII, Number 3
Coffee 7pm, Mtg. 7:30 pm @ Carlsbad
Safety Center(CSC), Palomar Airport
Rd.to N.on Camino Real(S11),east on
Faraday .25 mi,left to CSC,TB 14F6.

----- Talk-in 146.73 -----

OPEN REPEATERS / CLOSED AUTOPATCHES
PARC PALOMAR MT.REPEATERS(W6NWG):

PARC Trustee of W6NWG: Mike-AB6QT
*52.680- W6NWG,-.500 MHz(test)
Autopatches(4): 146.730-, *147.075+
*147.130+, *449.425-

PKT: 145.050s PALMAR W6NWG-1 Open
(linked PARC 9600 METROLINK)

146.700(-) Duplex BBS/EMG use

145.070/146.700 W6NWG-3/PALBBS

KJ6ZD SYSOP(QTH Vista)

145.790 APRS(Lat/Long)S.D. Co.

ATV IN:915 WBFM,919 AM,2441.25 WBFM

Intercom: 144.390, PL 79.7 NBFM

OUT: 1241.25 AM

OTHER:*224.38- KK6KD; *224.9-WD6HFR

(af- *224.94- KK6KD, Sharp Hosp CV

fil- 448.00- WB6FMT(123.0Hz)Vista

iats) *146.175+ WA6IPD, FalbrkPatch

INTERNET *PL 107.2 Hz.

--> <http://www.electriciti.com/parc>

C A L E N D A R

Mar 6 Wed.CLUB MEETING 7:30p @ C.SC

Mar 9 Sat.PARC VE Tests Carlsbad SC

Mar14 Thu.PARC 7pm Board Mtg. W9FQN

Mar16 Sat.Hike on Palomar Mountain

Mar17 Sun.Field Day Mtg @ W9FQN QTH

Mar22/26 =SCOPE= (deadline/mailling)

SK-*****SK

BENTON CALDWELL K K 6 L X

Benton passed away February 10th. He was PARC's treasurer from 1991 to 1993 (3yr) under presidents W9FQN and WA6Y00. He was active in all club activities and recently was part of PARC's audit team. His loss will be deeply felt by all.
=SK PARC=

SK *****SK

DICK DIPERT N 6 M Y N

Dick passed away February 10th. He was a long time member of the Sunday morning ARES net (over 300 check-ins). His cheerful voice and current weather conditions from east county will be sorely missed.
=SK PARC=

SK *****SK

BILL HARDING K E 6 N A Q

Bill passed away from unknown causes and he will be missed by all who knew him. =SK PARC=

SK *****SK

KENNETH WILLARDSON K E 6 F S T

Kenneth passed away February 15th after an illness with many complications. He was a regular member of the Sunday evening MARA Emergency net and at one time served as Scoutmaster and an announcer for station KGB.
=SK PARC=

HIGH FREQUENCY REMOTE

In last month's SCOPE we mentioned the possibility of installing a High Frequency Remote station which could be used by club members who live in locations with CC&Rs.

Bill-KB6MCU has volunteered to set up a station but help would be needed to install the feedline, antennas, tower, and beam(s).

One of the problems with a REMOTE HF station is security and limiting its operation to club members according to their license

class.

Using the phone lines would give us the greatest control. If the station were in the Vista area, club members who are in section-1 of the autopatch coverage would be able to access the system toll-free. Others would have to incur phone charges of about 10c/min. Does anyone have a site large enough for an HF station in the Vista area?

The use of a radio link would be least secure but would allow access by all club members (and others?) throughout the county. Link frequencies are difficult to come by in the 2m and 70cm bands.

If we had three telephones at our three autopatch locations we could cover the entire county toll-free except for Ramona. The cost would be about \$30/mo.

Until a project manager is designated, please send your comments to your editor (W9FQN).
=SK=

NEXT MEETING VPres. Sybil-W6GIC

The program for March 6th will be on the Baja Amateur Radio Racing Association with Bert Ward, W6WTE, and Marvin Munster, WB6PKK, giving the program. They will have the latest information on how you can operate in Mexico and how you can participate in Baja race communications.

Club meetings start at 7:30pm but many come at 7pm to talk to join a seminar, visit with friends, get a good seat, look at items on the junk table, see equipment as it is being set up, watch demos (ie. packet), and pick up some of the FREE magazines.

Check 146.730 around 6pm for where some members are eating before the meeting.

PLEASE COME EARLY and help set up chairs ..and STAY A FEW MINUTES to help put away the chairs. WE NEED YOUR HELP!

F I E L D D A Y 96 WD6AHX

Ok guys and gals. Its now time to start thinking ahead to Field Day 1996. After taking a year off

in '94 and grinding thru all of that rust and cobwebs last year (lets read that hard work). Thanks again Ellen (N6UWW). Lets carry that momentum thru to this year.

All those who had names of "would of", "could of", and "should of" sneak up on us if we don't sit down now and plan our strategy.

Our first meeting will be Sunday, March 17th, 2pm at the Field Day site across from W9FQN's QTH in Valley Center. Team captains, "where are you?" Please allow two hours for a "walk thru" and bring your calendars.

I will schedule one Saturday or Sunday work party for each major station thru April, May, and June to plan location, power, antennas, etc.

One day of work up front will make things easier for us in June. Think about things such as voice keyers, CW keyers, computers, loggers, sleeping accommodations, etc. Lets get the ball rolling.

See you there 73's, Wayne.

- L A S T M E E T I N G -

Attendance was 130 members & 26 guests for a total of 156. People are not signing in since a count indicated 170.

Stan-W9FQN acted as MC for the 60th Anniversary gathering with the following hams making comments about the "gud ole days" and bringing us up to the present:

1936 Founder Speakers

W6LKC, Harry Field,

W6MMO, Jack Cornell,

Honored Speakers

W6YYV, Earl Burdett; W6YZV, Mable Field; W6GHQM, Dave Copley; W6EJL(WN6K), Paul Dorey; WB6IQS, John Kuivinen; W6Y00, Harry Hodges; KE6W0E, Frank Littlebury; and KC6UQH, Art McBride.

The following were invited but unable to attend because of health problems:

W6JRQ, Walt Huckabay (founder); W6IRM, Chuck Inskeep (member '37); and K16JM, Jack Hanthorn.

We will be looking forward to see everyone on our 65 and 75th

anniversary ..and all those inbetween!

Bill-KB6MCU and his camera crew, Zac-KE6MQB and Dennis-KE6MQC, made a video of the meeting. =PARC=

- Feb. BOARD MEETING -

BOARD: *KC6UQH W66IC KC6YSO *KE6ZXP WB6IQS W9FQN KC6WAN AB6QT WB6PKK.

OTHERS: KB6MCU (ATV & Training),

The 7pm meeting was at Stan-W9FQN's QTH and started at 7:15 and ended at 9:11pm.

Barbara-KA6FPS served tea and "left over" PARC 60th anniversary cake.

- SECONDS -

DISCUSSED: programs, club history, recent deaths, 847 members, 911 problems, 146.73 spare rprr, sending WB6IQS picture to ARRL (QST magazine), nets, KB6MCU donations to ATN \$1,300 and KB6SOR \$300, new pkt repeater and its TNC configuration, battery banks and equip on 12vdc problems, ATV freq change, and classes.

APPROVED: \$360 unpaid badges KC6WAN(pd), \$103 cement etc W9FQN(pd), \$70 cement & misc W9FQN(pd), \$171 small equip WB6IQS(pd), sell/trade SB-100 W9FQN, sell/trade 1,000 xtals W9FQN, & encoder decoder W9FQN (\$100).

Next board meeting at Stan-W9FQN's QTH in Valley Center so we can eat the rest of the cake!

Contact a board member 4-info or C Secretary 4-minutes at meetings. =PARC=

T R E A S U R E R Shawna KE6ZXP
BALANCE SHEET for January:

\$10,949 Checking PrePd \$5,504
\$ 2,316 CD's Designated \$7,884
\$ 23 Petty Cash TOT \$13,388
\$ 100 P.O. Deposit
\$13,388 TOTAL

Your dues fund basic club operations: Newsletter, postage, meetings, supplies, Field Day, etc.

Designated monies fund "capital" items without the use of your dues. It comes from donations, ads, "goodie donations", rentals, 10% sale of equipment, etc. We are

probably one of the only clubs that funds its capital operations without club member's dues. Designated funds buy Capital items: equipment, radios, antennas, buildings, etc.

Reporting of Prepaid dues has increased several thousand dollars over last month due to a change in accounting. We are now counting prepaid dues as the ENTIRE amount of YOUR dues for YOUR remaining months of membership rather than the amount of years paid "ahead" when you pay for 2-5 years. See me (Shawna), Ralph, or Stan for more information about the change.

Y O U N G P E O P L E N E T S

It would appear from FCC Reg. 97.115 that non-licensed young people talking over a licensed amateur radio station are NOT THIRD PARTY. The designation of THIRD PARTY is reserved for transmitting messages for a 3rd party within the United States and foreign countries.

"The permission for a person to speak on your station is not a third party condition, but is a guest participant. As long as the licensed control operator is PRESENT, a guest may speak on your station." (de Del Radant, N6JZE, ARRL Official Observer Coordinator for the San Diego Section) =PARC=

- AGOGO - K6HAV/K16JM/W9FQN

(3-91) ..Noted that Mel Bacon-W6NWG used phonetics of "this is W6NWG, 'nuthin works good,' in Oceanside with miles and miles of beautiful white sand." ..449.425 placed on 107.2 PL ..Facetious net holds Valentine dinner with 31 attending ..W6KTE held 23 calls! ..callsign list of PARC members ..

(3-86) ...charter members at Feb. anniversary meeting were Harry Field, W6LKC; Walk Huckabay, W6JRQ; Harold Ulmer, W6EPM; Jack Cornell, W6MMO; Roy Williamson, W6NXX; and letter from Johnny Trent, KL7DG (Anchorage) ..Feb. program by S. Cal. Edison Co. on Earthquake Preparedness by Nancy Kendall (step-daughter of K6HAV) and we had

The NiCad Lady N6WPA

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with NEW higher quality cells!*

*Up to a 50% Savings over the
cost of a new pack!*

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- Test Equipment
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- Any Special Application

(909) 678-0943

a 50th anniversary cake ..must have new meeting place after April 2nd ..Jan 26th new 449.424 repeater installed by John-WB6IQS, Ralph-K6HAV, and Stan-W9FQN ..Burr-WA6VYD teaching electronics class in Carlsbad ..TASMA comments on 146.73 in LA ..PARC has table at March San Diego Swap Meet in Jack Murphy Stadium ..Felix-N6IE received QCWA 55 year award ..Jay-W6FAY back from Egypt ..insurance bill up 300% ..108 at Feb meeting ..Bob-WA6KZN tracked down 18 of the original 27 ..6 confirmed deceased .. =PARC= ***** PRESIDENT's WAVELENGTH, Art-KC6UQH

The February General Meeting was a great success. Stan, W9FQN did a excellent job of researching old Club Records and putting together a magnificent Program for our Sixtieth Birthday Party. Harry, W6LKC, his YL Mable, W6YZV, and Jack, W6MMO, did a great job in outlining the early days of our Club's History. Imagine a one tube receiver and a one tube transmitter but, more phenomenal than that, imagine having only one tube and having to change the tube from the receiver to the transmitter every time you transmitted! Harry used old batteries, found at the dump, that he revived by adding vinegar to the cells. I remember doing the same thing to number six dry cells to start my model airplane engines when I was a kid. Mabel was one of

the first YL'S to be Licensed in San Diego County and was Club Secretary for many years. Our Club also applied for ARRL affiliation in 1936 and has been affiliated with the ARRL for over 59 Years. We are currently designated an ARRL Special Service Club. Earl, W6YYV, our oldest Licensed Amateur, Harry, and Mabel spoke of the hardships and efforts of the Pioneering of Amateur Radio. After listening to all of the speakers I felt a feeling of both humility, and gratitude for their combined efforts that made Our Club one of the oldest and largest Full Service Radio Amateur Clubs in the Nation. It was an Honor as President to accept the ARRL Award for Sixty Years of Service to Amateur Radio for the Palomar Amateur Radio Club. There is a special ambience, a warm feeling that takes place when Amateur Radio Operators gather for a meeting, and last meeting I had the warmest feeling ever. February was a very special meeting and I am already looking forward to our Seventieth Birthday Meeting.

If I found that by listening to the talks of past PARC Officers that Our Club has not changed their recruitment policy from the very beginning of our Club. I was first Licensed in May of 1991. In September of 1991 Larry, KC6PEN (now AB6LY) and I went to a Board Meeting to propose a Radio Clinic for a future General Meeting. That meeting resulted in a successful campaign to make me Vice President. At the time I felt that there were others with much more experience. I suggested at least three others that could fill the position, but Stan, W9FQN, and Jack, KI6JM, convincingly prevailed and I ultimately accepted the position and served as Vice President of PARC for three years. I am now currently in my second term as President. On February 24th 1996 I finally, after two previous attempts, made a two way 70 mile contact with Ray, N6RE, on 10.4 GHz ATV. We had a one way contact in November with Ray transmitting and yours truly receiving.

Ray and I have made several improvements to our equipment and measurements made on 2-24-1996 show that we should be able to increase our range from 70 to 180 Miles with our current equipment. I hope to have video from both sides of our contact to show at our next General Meeting. I am told that the current record for this mode on 10.4 Ghz. is 160 Miles. Helping Ray with this effort in Palos Verdes was Frank, KD6WWF, and Mac, KD6UIN. Helping me in San Marcos on Mt. Whitney was Ken, N6ALA, Dave, K6QL, Mike, KN6IP, Konrad, N6UKO, and Bill, KD6BFR. Field Day is sneaking up on us. Wayne, WD6AHX, Field Day Chairman, has called for a meeting in March. Tim N6ZUC donated 12 Radio Shack voice recorder chips to PARC. Dennis N6KI has donated several headsets, microphones, and foot switches to PARC. Ivan, N6OLE, has agreed to assemble several units to use the voice chips and interface them with the headsets. George, AC6HZ, has agreed to transport parts to Ivan and pickup the completed units. Ivan sent me a copy of the QST article for the voice chips. John, WB6IQS, has found a 60 page technical data sheet on the voice chips. Stan, W9FQN, is looking into a DSP unit for the trailer and working with SDG&E on reducing the noise at our Field Day site. We still need help with completing trailer project.

Field Day is and always will be a practice to help us learn to handle traffic in a emergency without the benefit of repeaters, using portable power in a field condition. We learn to solve interference problems of several transmitters being operated in a 1000 foot perimeter. We learn to set up antennas, tune antennas, trouble shoot technical problems, erect towers, operate radios, computers, maintain portable generators, and support each other in a large exercise. No other radio service has the ability to fulfill emergency communications needs as the Amateur Radio Service can. PARC has for many years collected, mod-

ified and maintained a large collection of antennas, towers, equipment, and generators for this purpose. We need Amateurs who are willing to help us maintain, and operate this equipment. If there is a real emergency only those Amateurs with experience at Field Day will be helpful in establishing emergency communications for our community. When untrained people try to help in an emergency valuable time is lost in training, rather than using that time for providing communications. Please come out and help us with Field Day, be part of the solution, do not become part of the problem. Please call Wayne, WD6AHX, and offer to help with Field Day.

Art, KC6UQH

N E T S

Ed Moore, KD6WDE, has been sending MORSE CODE, Mondays, on the 147.075 7-8pm weekday code net. He will be operated on February 26th for a tumor next to his thyroid. Cards can be sent to Scripts Encinitas or his home, 4339 Park Dr, Carlsbad 92008.

The net can use someone who can send code Monday evenings until Ed gets back on his feet. =SK=

- H I K E R S -

The new Friday evening (9pm) hikers net seems to be moving along nicely with an average of 7 people showing up for the first few nets.

We are looking for experienced hikers who would be willing to advise us on hikes to be taken. The first hike will be Saturday March 16th at 11pm and we will be hiking from Doan Pond on Palomar Mountain for a total trip of 4 miles.

Those interested in taking the hike can park their car at Doan Pond before 11pm and look for a RED flag where we will meet. At the top of PMT take the road to the left of Mother's Kitchen for several miles to the entrance of the State Park. Fees are \$5/vehicle so pack your cars! Camping is \$12 (\$10 for seniors). You can park outside and walk in for free.

Be sure to bring along your HT,

Hot Rod antenna, extra batteries, a light lunch, water, good hiking shoes, and warm clothing.

Some of the group will probably camp at Doan Pond Friday night. Even if you can't hike, you are welcome to come up in your motorhome for the weekend.

It is also suggested by some that we meet at the back of the room after the March 6th club meeting.

All amateurs and friends of amateurs are invited. PARC does not sponsor these hikes but it does provide net time for all amateurs to discuss hiking in the San Diego area. There will be no leaders for these hikes but there will be hikers with some experience in the hiking group.

(The Park Rangers have indicated that the club could set up a SPECIAL EVENTS station sometime at the "lookout" tower which is "off limits" to most people. Wonder how this would be for a Field Day site sometime -Ed).

It has been suggested that there might be a hike for those interested up Mt. McKinley in August. =SK=

- 6 M E T E R S & M A R A -

The MARA Emergency Service Net on Sunday at 8:30 (2030Hrs) has been changed to 8:45 (2045Hrs) starting the first Sunday in March.

Please add to your NET PREAMBLES the 6m repeater on 52.68 along with your listing of autopatches and repeaters used by club members. New editions of the Net Preambles will contain these changes and additions. =SK=

***** 16 NETS *****
EVERY DAY TRAFFIC NET .. 8p 146.730
SUN.AR EMERGENCY SERV 8:30 146.730
SUN.SAILORS NET 10am 146.730
SUN.MARA Emerg Serv . 8:30p 147.075
SUN.THIS WEEK IN SD 9p 146.730
MON.EVAC NET(2/4th) . 6:45p 147.130
(M->F) MORSE CODE 7-8p 147.075
MON.SUB RACES NET ... 7:15p 146.730
MON.MICROWAVE NET 9p 146.730
TUE.VOICE PKT NET 9p 146.730
WED.SPANISH NET(2/4th) . 9p 146.730
THU.ALL SCHOOL NET 7p 146.730
THU.HAM HELP NET 8:15p 147.075

THU.COMPUTER HELP NET .. 9p 146.730
FRI.HIKERS HELP NET 9p 146.730
KING HENRY's FACETOUS N.10p 147.130
***** 28/week *****

MORSE CODE NET: Paul-WA6TIL has accepted the net manager position replacing Stan-W9FQN. Paul is looking for "backups" who can send Morse Code using their computers or who can take several days during the month. =SK=

NET CONTROLS might increase their net participation if they would announce 3-5 minutes before their net the time and location of their net on each of our other repeaters ..but don't break into another conversation to do so. =PARC=

M E M B E R S H I P Ralph-KC6WAN

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

PLEASE PAY YOUR MEMBERSHIP DUES BY CHECK AND NOT BY CASH ..if at all possible!

NEW/RENEWED MEMBERS:

4yrs= KD6JII-Chuck Hall Jr

3yrs= none

2yrs= KQ6BJ-Harry KE6FGG-Armand

1yr= W6TPQ-Clark (former HS

Student of Stan-W9FQN in the '60s and president of our Elkhart Ind HS club station K9IXS), KC60XZ-Walt KJ6NA-Tom W60DU-Grant KD6RSR-Marty N6TAC-Leilani KE6AZS-Bill KF6AZU-Barry KE6BW0-Fred Schiefer-Bill Hafner-Arnie KE6DLO-Josh KD6EFQ-Roger Arizola-Victor KE4CSX-Karl KF6AVC-James KB0PXX-David KD6BFR-Bill KF6BKK-Roger KE6PVU-Guy KE6IQU-Cathy KF6AJM-Chris KA6INT-Russ KF6AVE-Tom David-White KC7OVD-Gil K06EM-Bob KC5NJU-Pat KD6UBB-John KD6UBC-Kim K06BU-George KE6PTZ-Tom KA6PSG-Lee & KF6GN-Larry
CHANGES:

If U didn't C UR name/call here but U received UR SCOPE, then U R A MEMBER!

To receive a point for sponsoring a new club member you will need

TOROID CORES



Palomar stocks a wide variety of cores and beads. Iron powder and ferrite. For winding coils and for RFI suppression.

Our RFI Tip Sheet is free on request. Tells how to use ferrites to suppress interference from computers, TNC's, transmitters.

Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. Model RFI-3 \$18 + \$6 to ship U.S./Canada. Tax in California.



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FAX: (619) 747-3346

to instruct the potential new member to write on his application that you are the sponsor. Otherwise, your editor is not aware of points to be awarded to members.

Recruiting points to: Stan-W9FQN(1/2) for W6TPQ; Art-KC6UQH(1/1) for Arnie Hafner; Mark-AA6TR(1/3) for KE6BW0; Jo-KB6NMK(1/1) for N6TAC; and Chris-KF6AJM(1/1) for KF6AVC

PARC members live in the following areas with towns of 10 or more members listed (San Diego sometimes extends as far north as south Escondido):

| | |
|---------------|------------------|
| 213 San Diego | 22 Fallbrook |
| 87 Oceanside | 22 Ramona |
| 80 Vista | 17 Poway |
| 74 Escondido | 17 Valley Center |
| 60 Carlsbad | 14 Chula Vista |
| 30 San Marcos | 10 La Jolla |

22 Encinitas

On the basis of just the above towns we find that 412 members (60%) live in the upper autopatch area and 254 members (40%) live in middle and south county autopatch sections which probably explains the greater usage of the upper autopatch system.

Oceanside, Vista, and Escondido account for 241 members or about 36% of our membership.

This listing also does not take into account 2 or more hams living at the same address since a mailing list was used for the analysis (ie., W9FQN-KA6FPS-N6QDB-N6YZZ live at the same address but were counted only as one in Valley Center -Ed).

The rest of our club members were not accounted for since they lived in areas with fewer than 10 club members.

The percentages seem to be about the same as they were about 10 years ago when a count indicated a division of about 50% in the upper section with Carlsbad and Encinitas not included in the upper section as they were this time.

73, Ralph 727-7415 =PARC=

REPEATER TECHNICAL John-WB6IQS

The tone IDer on 147.13 probably has a bad potentiometer wiper contact resulting in either LOUD or SOFT audio depending upon its connection ..which probably varies with the weather. When the snow clears we will replace the pot. =SK=

I am looking for a 12vdc 14-15amp switching power supply for a repeater project. =SK=

Sometimes when Techs are working in the repeater building they are in a hurry to test things and do not use a DUMMY LOAD on their HTs. This results in a relatively high power signal within the repeater building causing an over powering of the repeaters within the building. The result is that their voices are heard on all 2m repeaters at the same time. Their voices are somewhat distorted.

P R O J E C T S

146.73: Mike-KC6UQH is working on a replacement repeater; David-AC60A is putting finishing touches on the earthquake alarm for the present 146.73 (60% completed). =SK=

145.05pkt/146.7(-): I am working on an emergency substitute all in one package (30% completed).

SITE-INFO: Joe-KE6WEO is working on a packet unit to interrogate things at the repeater site such as battery voltages, wind speed, temperatures, etc 30% completed).

ARES DATA: Stan-W9FQN is working on a packet ARES Data Base to be used in emergencies for keeping track of workers, hospital patients, and EVAC centers (40% completed).

OTHER: Ken-N6ALA is working on 110vac to 12vdc automatic switches to put the 147.075 and 147.130 repeaters on 12vdc when we loose AC power at the site (30% completed). =PARC=

MOTION SENSOR LIGHTS -

A recent trip to the repeater site in the snow at night indicated a need for several motion sensor lights. Is there anyone that has experience with these units that would be willing to work on this project?

Its rough walking around in 5" of snow late at night carrying equipment in and out of a repeater building with no lights.

Contact Stan-W9FQN the site chairman for details. =PARC=

Jerry-WB6FMT PATCHES Stan-W9FQN

We are still noticing many members trying to access the autopatch when they have very poor signals into the repeater. Using a Hand Held with a rubber duck is asking for problems. You need at least 2-5 watts and a good antenna: AEA Hotrod, J-pole, beam, or magnetic mount on a car. If you cannot bring up the patch, you have the wrong codes or a POOR SIGNAL. Being able to "kerchunk" the repeater is not indicative of a good signal. =SK=

Our tape monitor system for the

autopatch is indicating that we still have a few members who are failing to get their call letters on the tape recorder at TWO LOCATIONS on the tape:

1st - Your call letters must be AFTER the 3-digit access code.

2nd - Your call letters must be BEFORE the "#" shut off.

Some members are identifying BEFORE the access code and after the "#" shut down of the patch (old method?) ..which is not now correct.

We need your call letters on our tape recorders. =SK=

On some autopatch calls, the person answering the call indicates that they can't hear you or you are not clear. In most cases of this type, the amateur is using an HT in a noisy environment ..and is yelling or talking louder than normal into the microphone because they are in a bad location or are excited.

Talking louder can cause your rig to distort your voice and can even possibly cause your HT to "drop" out of the repeater. When you are weak or in a noisy area, it is best to actually talk with less volume than you do normally for clearest communications. This suggestion also works when your batteries are weak.

SHOUTING DOES NOT IMPROVE COMMUNICATIONS! It actually hinders communications. =SK=

P R O J E C T S

PROGRAM-FILTERS: Jerry-WB6FMT and Stan-W9FQN are working on an automatic programmer of our three autopatch number computers. Jerry did most of the hardware work and testing while Stan is doing all the computer programming. The hardware is finished and the basic programming completed. We are now working out several bugs in the hardware and programming. It works with one type of filter and we have two more to go (33% completed).

AUTO-DIAL: Jerry and Stan are working on an addition to the autopatch system which will allow you to dial any number in SDCo without knowing its location. It

will automatically select the best patch for the call (15% done).

=PARC=

REPEATER OPERATIONS Stan-W9FQN

Our 146.73 repeater is used by mobiles during the commute hours and by nets in the evening hours. Since many of our members monitor 146.73, it is suggested you make your call on 146.73 and after contact is made that you move to 147.075 or 147.13 for conversations lasting more than 2-3 minutes. This will "free up" 146.73 for others to make short calls. =SK=

Members need to remember that the SCOPE lists "OTHER" repeaters that are affiliated with PARC. The listed repeaters DO NOT BELONG to PARC but we do have operating agreements where PARC members are invited to use those repeaters.

PARC repeaters have the call of W6NWG while the "OTHER" ones carry the call of their trustees: 224.38-KK6KD (Pmt); 224.9-SDCo 220 Club (Pmt); 224.94-KK6KD (C.V.); 448.00-WB6FMT (Vista); and 146.175-WA6IPD in Fallbrook. Affiliates have been requested to use the PARC adopted PL of 107.2Hz. =PARC=

W O R K P A R T I E S Stan-W9FQN

There will be no organized work parties at the site until Spring except for emergency trips to the mountain or individual efforts by small groups. =SK=

(1-30) #4 At 11:30pm Mike-AB6QT removed the 146.73 repeater after the transmitter failed and took it back to the Palomar Observatory area for repair. The next day by 4pm Mike had repaired the tripler chain, replaced all resonating capacitors in the chain to values that would place the tuned circuits into the ham bands (this was a commercial unit) and returned the repeater to proper operation. =PARC=

= A T V = de John KD6TLF

The ATV intercom frequency has been changed to 144.39 but still uses a PL of 79.7Hz.

Here are some signal repots from

active ATV stations receiving the PARC ATV repeater and a brief explanation of the P-unit system of measuring video quality.

KB6MCU,P5 (line of sight), S. Diego K6QL, P5(line of sight), Escondido NW6W, P5(line of sight), Carlsbad WB6IZG,P4(blocked by hill),MiraMesa WB9COY,P5 (line of sight), . Poway KD6TLF,P5(line of sight), Escondido N6ALA,P5(blocked by hill),Escondido AB6QT,P3(no preamp), . Palomar Mt.

P1 is a sync bar only and P5 is snow free video. There is no way to predict non line of sight conditions: trees, buildings, etc. absorb and attenuate the signal differently.

The antenna gain, height and coax loss are the most important part of any UHF communications system. Note that every 6db (4 times the power) of increase due to raising transmitter power, antenna gain, or less coax loss or noise figure, doubles the distance or adds a P unit to the picture quality. Snow free video P5 is about 150 to 200 microvolts at the downconverter input. Large call letters can be seen in the snow as low as a few micro volts.

Contact Gene-WB6COY @ 748-0708Bus for down converters & antennas. Call PC Electronics @ 818-447-4565 for a free catalog with information on PARC's ATV repeater. See Nov '95 QST magazine for more ATV information.

I'll be happy to help you get started in ATV. Any questions or more resources, call me at 747-9431 between 8a-7p or on packet do a "SP KD6TLF" using PALBBS on 146.7(-). =PARC=

1 4 6 . 7 0 0 (-) P A C K E T

Feb24th Jim-KF6QH and Ted-KD6AKT checked out the packet repeater for communications on camp Pendleton using small portable packet stations. The test was successful and they plan on using packet on several events this coming year. =PARC=

- U P S -

Computers do not work very well



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!



Radio systems installation, repair and removal, and interference resolution.

Antenna Specialties

Edward Ross, N6GZI
542-1405

without connections to the 110vac line at some time or another. Even a momentary glitch in the AC line is enough to cause a complete loss of data or a scrambling of data.

Hence, the need for a Uninterruptible Power Supply (UPS). The UPS is basically a charger for 24vdc (two or more cells connected in series) which is used to drive a power-oscillator circuit generating 110vac.

If you loose 110vac house power or if there is a glitch, the UPS will immediately attach itself to the 24vdc batteries for power. The batteries usually allow you ample time to save what you are doing and to shut down the computer.

Bill-N6FMK donated to the club four non-working UPS units last year and Parviz-KD6BCU donated a LARGE number of 38Ahr sealed batteries years ago. From these donations, Stan-W9FQN, after many months of on-off-again work was able to get all four UPS units up and working properly.

They are now being used as follows:

- 1) backup of patch computer monitor.
- 2) backup of the SCOPE computer.
- 3) tape/timer backup of patch sys.
- 4) one spare.

These UPS units will be made available to the Field Day stations in June of each year for backing up there logging computers.

Again, thanks to all involved in this project. Your donations have

been put to good club use. =PARC=

FORESAIL

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. PERSONAL ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

Block ads: business card (1/3rd col.) \$5; 2/3rd col \$10; 1 col \$15; 4 card size (almost 1/2 horizontal page) is \$20 per issue. Billed Feb, May, Aug, & Nov.

Kevin Sanders, KN6FQ, in Escondido is now handling PARC's extensive tube bank. Contact Keven at 432-8381 for availability and prices.

***** NEW ADS *****

(02-20) Okidata 192+ Near Letter Quality Dot Matrix printer, stand, box of paper, parallel cable, manuals, IBM compatible \$49: Howard WB6AKM 453 3156 nites or 642 2400 x 1201 Days (SD).

(1-23) KENWOOD TS-520s xcvr ex/cond w/Shure desk mic: Jo KB6NMK 741 2560 Esc.

(1-22) CUSHCRAFT AP8 with APR18 radial kit covering 10-12-15-17-20-30-40-80m \$50: James N8NHV 967 6313 1v msg.

(1-18) KENWOOD MP-100 mounting bracket for TS-130: Jo KB6NMK 741 2560 Esc.

(1-4) Hamond Organ with course was \$2300 now \$400 or trade for HF/UHF equip: Steve W2MRM 451 5690 R.Bernardo.

(1-4) KENWOOD TS-440s/AT; KENWOOD PwrSup PS-50; KENWOOD Spkr SP-430; Butternut Ant HF6V (10-80m); Various Ant Tips for Hustler: Joe N6RVO 433 6885 0csd.

*****-OLD ADS PRINTED ON ODD MONTHS

(12-22) Super ant twr used for wind tower near Palm Springs 72' (base 9' top 2') 3250 lbs @ \$1000 & 112' (base 13' top 2') 5125 lbs @ \$1500 ea hinged at base. Jim Burton N6UFE 714 645 9849.

(12-22) ALPHA 374A 2kw HF amp \$1250 or will consider trade on Kenwood 940/440. Dennis N6KI 271 6079.

(12-15) 16MHz 286 IBM Clone 40MB h/d modem EGA monitor \$250 Tony 223 8077.

(10-23) KWM-2+pwr supply ex cond: Joey-NU6L 749 0276 VC.

(10-19) Heathkit SB-100 100w tube transceiver. Great first rig. Call for price. Stan W9FQN for PARC 749 0276 Villy Ctr.

(10-03) Power supplies 5v@2A-35A \$5-\$35: Mike (mountain) AB6QT 742 1573 PalMt.

(8-7) ICOM 730 HF mobile rig 10-80 meters, gud base also, manual, pwr, mic & mobile mic \$600 or best offer: Curtis N6XXU 599 0178 Vista.

PLEASE LET ME KNOW IF YOU BUY OR SELL SO I CAN TAKE OUT THE AD!

HIGHWAY ELECTRONICS

Nick's HIGHWAY ELECTRONICS, located at 305 Wisconsin Ave. (West side of Pacific Coast Highway) in Oceanside, is a great place to spend several hours just browsing around. You will be sure to find something that you need as you look at hundreds of feet of shelves, peer into many LARGE packing crates, and explore everything in the "outdoor" yard.

To save time, here is a layout of some of the items:

| | | | | |
|----------------------------|-----|-----|-----|--|
| ***** | | | | |
| Cargo container#1 | (S) | | | |
| Cargo container#2(I) | (S) | | | |
| (S) | (S) | | | |
| (S) | | (S) | | |
| | | (S) | | |
| | (T) | | | |
| (V) | (R) | (K) | (K) | |
| (P) (C) (X) (M) | | | | |
| | | (K) | (K) | |
| ***** door ***** gate **** | | | | |

C = Capacitors

K = Cabinets, racks, etc.

I = large variable Inductors

M = Meters

P = Power supplies

R = Resitors

T = Tubes, all kinds

S = Sheds

V = Variable voltage transormers

X = transformers

In the blank spaces you will find all of the above plus things you never dreamed existed. You WW II gents will recognize many of the items.

Why not drop in for a "look-

see". Nick or his helper, Kevin, will be more than happy to point out where things are hiding from you.

You might call Nick at 967-7225 to see if he is open between 10-3pm.

***** W A N T E D *****

"A few good men" ..or "women"

(2-22) 1992 ARRL Handbook, any condx, for library: Duane AA6EE 789 3674 Ramona.

(2-16) Lost manual for TH28A HT in move de Texas. Need copy. Pat KC5NJU 743 6592 Esc (or DATEL Esc/SM).

(2-9) Used 2m mobile/HT for packet (non PL/xtal): John KD6TLF 747 9431 Esc.

(1-26) Help with a TH-28A HT. Please call Rick and Lani 489 1126 Esc. (I hope they come to the Feb7th club meeting -Ed).

(1-26) HyGain Telex HAM IV Rotor: Troy KE6ASO 287 3910 SD.

(1-26) Anyone interested in Astronomy or telescopes of any kind for general interest activities and cooperation up to projects and observatories: David L. White/PIRA 724 5671 Vista.

(1-24) RANGER II, C.E. 200V, and other old tube gear especially receivers for serious educational station: David L. White 724 5671 Vista.

(1-12) FEX767-2 & FEX767-6m modules new or used for Yaesu FT-767GX: James N8NHY 967 6313 leave msg.

OLD WANTED PRINTED ODD MONTHS

(12-25) Hewlett-Packard database program formatted for IBM called Exective Card Manager (ECM). Nash W6HCD 940 1028 Bonsall.

(12-22) IRC 2.1 KHz filter(s) for Kenwood 940/850. Dennis N6KI 271 6079.

(10-20) 220 mobile with PL: Bill N6FMK 941 9492 Vista.

(9-13) Color monitors which have video and sound inputs to be used in five medical clinics in Mexico. VCR's will be used to play "health topics" to patients as they are waiting to be seen by the doctors: Nash W6HCD 940 1028 Bonsall.

FALLBROOK HIGH SCHOOL will take

any and all donations of amateur radio equipment. We need radios, a Tri-band Beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

PLEASE REPORT UNWANTED ADS TO UR EDITOR! =PARC=

>SAVE BIG ON CALLBOOKS & CDROMS<
'96 Callbooks (retail \$35) \$25.95
Radio Amateur CallbookCDROM 39.95
QRZ! Ham Radio CDROM(vol.6) 16.95
'96 ARRL Handbook (ret. \$38) 34.95
(other ARRL publications: call)

Call Duane AA6EE 789-3674 (pd ad)

PARC HISTORY 60th W6IRM

..I received my General License in 1933 when living in Chula Vista and built both receivers and transmitters (no crystals) and mostly on 40 meters CW. I bought my first crystal from Fred Wisner (NPL - where the old 600 foot towers used to be which were dismantled this past year). I re-ground the crystal by hand on a piece of glass with fine carborundum to meet my freq. needs ..

I was transferred from San Diego in 1937 to be an assistant in the operations Dept. of SDG&E Co. for the northern area ..later I upgraded to District Supt. and our Op Ctr was moved from Oceanside to Carlsbad near the Encina Power Plant.

Being involved with amateur radio, my immediate boss I reported to was also a "Ham", W6FP.

In 1938 I met two local "Hams" and was invited to meet some others. Names that I recall were: Harold Ulmer, W6EPN; Walt Huckabay, W6JRQ; Clint Call, W6OFT; John Martin, W6EOM; Bill Jago, W6NWI; Harry Fields W6LKC and his wife Mable W6YZV.

I believe Mable served as secretary and was the one who called it (newsletter) the "SCOPE".

They held "Field Days" ..once in Bonsall, once in Buddy Todd Park and one I particularly recall where

I stayed all night in the old TeePee which was an old land mark along Hwy 78 between Escondido and San Pasqual. I probably worked the 40 meter CW at the time.

One time they had a balloon filled with hydrogen or helium and had an antenna wire attached to get elevation.

One year Harold Ulmer had his picture and his installation of a "Beam" antenna on the front of QST (magazine). (I've forgotten what year that was). Harold made vacuum tubes and he asked me to make some burners on my machine lathe for his glass lathe.

John Martin and some others made and installed the first Oceanside Police Transmitter which was (I believe) around 1715KC which caused some "Ham" frequency interference.

When the Oceanside Police finally bought a commercial set up, I was given one of the old Motorola Police Cruiser and T-069-20A sets. I had assisted other amateurs in fixing the original set up (replacing a tube or capacitor or whatever). I had planned to convert the Motorola to 10 meters --never did-- but still have the sets.

Because of my fall and physical condition I'm not presently able to attend our Palomar Meetings. I have been offered transportation and maybe after a period of time I will be able to get back to a meeting again ..hope so.

I've always enjoyed my associations with "Hams" ..a fine group! 73, Chuck. =PARC=

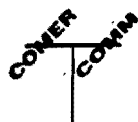
Thanks to:

Art-KB6YHZ & Anita-KB6YHY made the coffee and supervised the drink & goodies ..and members bringing goodies were: Bill-KM6PY, George-K6YGK, Duane-AA6EE, Paul-N6ISC, Jeff-KC6PVN, Margarette-KC6PVO, and Jerry-N6TCB.

The goodies were great and you were rewarded with ONE participation ticket. =SK=

(2-7) Rod-AC6V called SD police about a car blocking the highway as reported by Ellen-N6UWW.

Ted-KD6AKT donated a IBM



DSP 100

The PC Transceiver

*General Coverage Receiver 450 KHz to 30 MHz.

*-10 dBm exciter output for all HF amateur bands. Simple no solder components available to raise power output to 50 or 100 Watts.

* High Dynamic Range Direct Conversion Architecture with full DSP.

* Two ISA bus card system, uses an Analog front-end Card and a DSP card for all passband filters and modulation / demodulation.

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Call our BBS on (619) 744 4032 for more info and FREE demo software.

Receiver/Exciter + DSP \$695 +tax

COMER COMMUNICATIONS INC.,
609 Washington Drive,
San Marcos, CA. 92069.
Tel (619) 744 7266 Fax (619) 744 4745

keyboard for the autopatch recording computer which had gone "belly-up."

Mike-N6SWA for taking the Sunday morning ARES net for February.

If anyone is missed, please let your editor know WHO and WHEN. =PARC=

- A R R L L E T T E R -

De recent ARRL Letters:

GPS experiment (SPRE) aboard Endeavor space craft for short test (kenneth@w3eas.umd.edu). ARRL asks FCC to relax spread-spectrum regs. Malicious interference talks with FCC called productive. FCC allocated 219-220MHz to Amateurs on a secondary basis for fixed pt-to-pt fixed digital systems. Weekly electronic version of The ARRL Letter to deput. Check <http://www.arrl.org>. (V14,#24).

Contact W9FQN at meetings for copies. =PARC=

- N E W S - etc.

Contributions by the 20th)

Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes, or hand them to me at club meetings. =SK=

Dick Dipert who died early this month was known as a gentleman who also happened to be an American Indian. =SK=

Savvy pigeons have been seen hopping into London subway cars and out again a few stops down the line ..they really do seem to know where they are going (WA6QQQ's CGC Nov Communicator).

WORLD RADIO MAGAZINE: \$14/yr, mail to Worldradio, 520 Clavados, Sacramento, CA 95815. The magazine uses newspaper style type and print and covers news and information about amateur radio subjects. Great general purpose magazine. See your editor for a "look see" at the next club meeting (from time to time we publish some of their articles or humor -Ed). =PARC=

- T E C H N I C A L -

Ur Editor will accept items submitted by the membership.

QUESTION #1: you are running 1 watt into your HT and then increase your power to 5 watts while you are talking to a friend thru one of our repeaters. You will now sound louder to the person talking to you (TRUE/FALSE).

QUESTION #2: you are running 1 watt into your HT and then increase your power to 5 watts while you are talking to a friend thru one of our repeaters. Your friend will notice that he see more "bars" on his signal strenght meter (TRUE/FALSE).

QUESTION #3: you are running a maximum of 5 watts into your HT thru one of our repeaters and your friend indicates you are dropping out of the repeaters about 50% of the time. Your solution to this problem is to talk more softly into the microphone (TRUE/FALSE).

QUESTION #4: while talking to someone on our repeaters you use the REVERSE switch to see if they are close to you. They are close but you notice that their signal has a more natural sound (hi-fi?) than the repeaters. You conclude

that the repeaters's circuits are not adjusted properly (TRUE/FALSE).

(answers on page 11) =SK=

- E X P E R T S -

"Loco and OtherWise"

One of the advantages of a large club is that we have a large number of eXperts in many areas.

The following club members have considerable knowledge in the areas listed. If you have questions, please feel free to contact them:

Alligators open
FCC 610 forms: KB6NMK, W9FQN, AA6OM
Accounting/bookkeeping . . . \$KM6WG
AMTOR/RTTY: WA6Y00
Antennas: . . . KC6UQH WB9COY KB6MCU
Antennas,BoatElect: KC6UQH
ARES: KC6YSO K7DCG WA6Y00
ARRL: WA6Y00
Astronomy/Telescopes: DLWhite AC60A
ATV: . KD6TLF KC6UQH KB6MCU WB9COY
Autopatches: WB6FMT W9FQN
Badges, PARC: W6OLQ KC6WAN
Beams,HF: N6KI KB6MCU
Beams,VHF/UHF:KC6UQH \$WB9COY KB6MCU
Bilingual Ed: KA6FPS
Boating: W6QCA AA6TR W6EYP
Camping: KE6ZLY KM6MW KC6TYT AB6QT
Cars (old): W6QCA AC6V
China: WA6Y00
Clocks: \$KA6OLZ
Coast Guard Aux: N6TEP
Computers, C-64: WD6FWE
Computers,IBM: WB9RKN W6QCA N6ZUC
Computers,MAC: AC6V
Computer,TRS-80, Mod3/4: . . W9FQN
Dancing: AC6V KM6MW
DeskTopPublish:KE6JQJ,KC6CZO,KB6NMK
DirectionFinding:KB6NMK W9FQN N6UWW
DXing,CW: KA5Q AA6TR WA6Y00
DXing,SSB: . WA6Y00 KA5Q N6KI AC6V
DXing,RTTY: WA6Y00
Earthquakes: AC60A, W9FQN
Electrical: \$NU6L
EmgVolAirCorps: KH6TL
Fishing: . . \$KE6EDC \$W7HKI \$W7HKL
Fire Patrols(Red Flag): . . . W6HCD
Flying Samaritans: W6HCD
FM Deviation Cks: . . AB6LY WB6FMT
German: N6TEP KJ6ZD
Graphics: \$KB6NMK
Heathkits: WB6IQS
Horses: KF6QH
Interference: KB6MCU N6GZI
Korea: WA6Y00 W9FQN N6IE
Lighting: \$AA6TR

Lightning: W9FQN
 Marine Electronics: . . . \$KC6UQH
 Membership PARC: . . KC6WAN W9FQN
 Mexican License: W9FQN N6UWW WB6PKK
 Mexican Road Races: . WB6PKK N6UWW
 Mexico Vacations: . . W9FQN KA6FPS
 Mexico, Baja: WB6PKK KM6WF
 Microwave: N6IZW
 Mobile noise filters: . . . KI6RF
 Nets PARC: W9FQN
 Nets, Traffic: N6TEP W9FQN
 Pacific Crest Trail: . KF6QH W9FQN
 Packet: . . KB5MU N6ZUC AC6V KD6AKT
 Ping-pong: . . W6OLQ W9FQN KA6FPS
 Planes, Gliders: KC6YOX
 Planes, History: AC6V
 Planes, Model: . . . N6UWW WB6FMT
 Search & Rescue(SAR): . . . KE6NPN
 Ten-Ten: KC6QXU
 Tennis(info): NU6L KA6FPS
 VE Testing: WA6Y00 AA6OM
 (\$ = they sell their services)

If anyone would like to be added or deleted from this list or you have suggestions of others that might be added, please contact your editor. =PARC=

 L E T T E R S to the E D I T O R
 UR editor and the board reserve the right to publish/edit all letters.

- - - - -

(de Ron-KJ7MP & Barbara-KB7ZCU)
 ...now in SD ..our boat is at a marina in LaPaz Mexico ..returning to boat sometime in March ..active in HF Baja nets ..2m new to us both ..will resume cruising in the Sea of Cortez and points beyond (look for Dos Hermanos when in LaPaz Marina - Ed).

- - - - -

Hi to all ..sure miss my morning walks and the QSO's with the PARC gang ..I fell and ended up in the Tri-City Med Ctr via PARA Medics ..can't drive ..have talked with a few on 2m ..hope to get back on my walk but doctors say NO for a while ..73 Chuck, W6IRM.

- - - - -

Sorry for the trouble I am giving you ..name is Igor ..place of residence the Ukraine ..write a letter ..bring self to do abject poverty ..I am disabled Afghanistan veteran ..in order to rub shoulders my must have computer ..for want of

money buy computer one can't stand ..have a favour to ask of you give help ..want mother board, SIMM, multi I/O, VGA, FDD(?), HDD(?) for one can the old fault ..be indebted to you ..thank you ..Necheporenko I., Kirova St. 189, Pjatihatki, Dnepropetrovsk, 322500, Ukraine (AA6EE in Ramona is pt of contact - Ed). =PARC=

EDITOR W9FQN

The Palomar Amateur Radio Club is NOT a repeater association! There are many repeater associations in the SDCo area but PARC is NOT one of them.

PARC is a FULL SERVICE CLUB and supports MANY amateur radio activities. It just happens that we have a rather extensive repeater system: voice, packet, autopatches, and ATV.

Have you ever heard of a repeater association winning ANYTHING in the ARRL FIELD DAY exercise or have you ever heard of a repeater association having programs that draw as many as 190 at club meetings ..or supports almost 30 nets a week serving all phases of amateur radio? =SK=

Many thanks to Frank-KE6WQE for his effort in setting up PARC's Web page in such a short time with all of the tremendous "openings" to the whole world. If it is amateur radio or a related subject, you can use the PARC Web as your jumping stone to fun and knowledge. Check in and then cruise the world. =SK=

PARC is looking into an alternate meeting site for when there are problems with using the Carlsbad Saftey Center. Anyone have any suggestions? =SK=

The November (Dec. issue) "Fold-and-Staple" party had your editor laughing so hard that tears came to his eyes. You to can participate in the "laugh-in." Contact Jack-KI6JM who will tell you "where to go." =SK=

I have noted that this is our 22nd year for the newsletter and that we are also 60 years old. Where are ALL of the these old issues?

The SCOPE is a history of the club and its many activities and in 1996, our 60th club year, we will have articles on club history in addition to the AGOGO column each month. If anyone has any "old" club information of interest, please get it to me ASAP. 73, Stan-W9FQN,

=PARC=

***** PARC's TOP 20 *****
 - DXCC and W.A.S. -

| CALL | WORKED/CONFIRMED | STATES |
|------------------|------------------|---------|
| 1 W6KTE 360 | 360 Mixed | 50 50 |
| 2 W6KTE 359 | 359 Phone | 50 50 |
| 3 WA6Y00 318 | 316 Mixed | 50 50 |
| 4 KA5Q 318 | 316 Mixed | 50 10 |
| 5 WA6Y00 314 | 313 Phone | 50 50 |
| 6 AC6V 316(3) | 307 Mixed | 50(3) ? |
| 7 AC6V 311 | 303 Phone | 50 50 |
| 8 KA5Q 305 | 280 CW | 50 5 |
| 9 WA6Y00 234 | 233 CW | ? ? |
| 10 WA6HYB 202 | 194 CW | 50 50 |
| 11 WB6NBU 200(4) | 189 | 50 50 |
| 12 AA6EE 200 | 180 | 50 50 |
| 13 AC6V 152 | 149 CW | 50 50 |
| 14 KI6JM 193 | 136 | ? ? |
| 15 WA6Y00 120 | 120 RTTY | ? ? |
| 16 N6SMW 150 | 109 Mixed | ? ? |
| 17 N6ELP 138 | 105 RTTY(6) | ? ? |
| 18 KC6QXU 95 | 86(2) | 50 50 |
| 19 W6EYP 37 | 13(5) | 50 24 |
| 20 AA6TR 1(1) | ? CW | ? ? |

(1)100mw, (2)10m only, (3)8watts, (4)183-110/AEA-attic-isoloop, (5)10-20m, dipoles 12' off gnd, (6)RTTY all 20m.

Chris-W6KTE also has 5 band DCCC (100 each band).

Please send in your WORKED-CONFIRMED and STATES info to UR Editor. Pse break down by Ph/CW/Mixed if possible.

***** -TOP 10 -*****
 - WORKED ALL CALIFORNIA COUNTIES -

| CALL | WORKED/CONFIRMED | Comments |
|-------------|------------------|---------------|
| 1 WA6HYB 58 | 58 | 40cw, 6months |
| 2 WA6HYB 32 | 32 | 1watt CW |

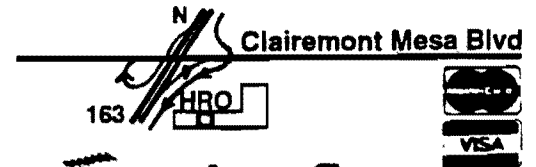
3
 10

W.A.C.C. rules and information can be obtained from K.O. Anderson, K6PU, PO Box 853, Pine grove, CA 95665 or contact Dan-WA6HYB. Dan suggested that with the sunspot numbers dropping that this might be an award that some of our members might want to work towards. It also is a good way to see where towns



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and counties are located in our great state of California. =PARC=

ANSWER #1: FALSE. The loudness does not depend upon the STRENGTH (power) of your signal but on how far the frequency changes while you are talking.

ANSWER #2: FALSE. Your signal is going "thru" the repeaters and your friend is ONLY hearing the repeaters whose power is fixed. He is seeing the repeaters signal strength. Not yours!

ANSWER #3: TRUE. Talking louder makes your frequency "swing" larger putting more of it outside of the bandpass of the repeaters receiver which will cause BLANK spots or DEAD spots in your signal. Talking more softly will keep more of your power closer to the center frequency of the repeaters allowing more of your audio to be heard. The audio will be quieter but it has more chance of being "all there."

ANSWER #4: PROBABLY FALSE: most transmitters that are used for repeaters are adjusted so that they cut off the frequencies above 3kc since they are not needed for voice communications. Some HTs and transceivers do not follow TASMA and FCC rules and regulations and

exceed the imposed limits making them sound more "hi-fi" when you hear them on the input (REVERSE) frequency (ie, 146.73 = output of the repeater and 146.13 = its input frequency). A distorted signal from the repeaters could be a problem with the repeaters or the person using the repeaters could have a problem: 5kc off frequency, bad mic, or over modulation. =PARC=

- DONATIONS -

Some of our club members donate some of their little used equipment to PARC. Others must be scroungers at heart since they are able to find many things that the club can use "just lying" around.

It is really hard to start making lists of donated objects for fear of leaving some members out but the following are examples of where members saw something which the club could use and called it to our attention:

SHED#1: Mike-AB6QT discovered that the Palomar Observatory was going to destroy their old 8x8' photographic cooler which was metal inside and outside. It is now one of our new repeater buildings.

SHED#2: Mike-KD6VHI stumbled on

an all metal radio shed meant to be buried partially in the ground that was going to be junked. It has now been moved to PARC's site for some future project.

TOWER: Bob Gonsett-WA6QQQ spotted a tower in San Diego not being used and it ended up being our 80' repeater tower on Palomar Mountain. Bob's father, president of Gonsett Communications had a mobile communications container which PARC might find a use for after 5-years of storage.

CEMENT: John-N6MEI was able to "find" 16 tons of cement and rebar for the 80' tower when we needed it.

TRAILER: Our "new" trailer used as a storage area at the repeater site was "found" by a former club member who remembered us.

RACK: Ted-KD6AKT bought an outdoor repeater rack for \$15 and donated it to the club. It was not used for several years but when it was needed, it was used to open up the door to PARC obtaining the club's 147.13 repeater. Fifteen bucks never got us more!

BATTERIES: Frank-WB6HFE located a large number of 6v batteries ..Larry-WA6UTQ spotted some good

PARC Membership Application

| |
|--|
| AMATEUR CALL |
| CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW |
| ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO |
| LAST NAME |
| FIRST NAME |
| STREET ADDRESS |
| CITY |
| STATE ZIP |
| HOME PHONE |
| WORK OR OTHER PHONE |
| HAM LICENSE EXPIRES |
| FAMILY MEMBERSHIP (List other calls and names) |
| CLASS OF LICENSE N T T+ G A E |

Mar. '96 S.Call?:

(Sponsor's call not required)

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

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1-25 SK's, HF remote, Next Mtg, FD.
2-26 Last Mtg, Board, Young, AG060
3-27 President's Wavelength,
4-28 Nets, Membership,
5-29 Rpt Tech, Sensors, Patches, .
6-30 Rpt Ops, WorkParty, ATV, Pkt, UPS
7-31 For Sale, Highway Electronics
8-32 Wanted, AA6EE, History, Thanks
9-33 ARRL Ltr, News, Tech, X-perts
10-34 Letters 2 Editor, Editor, DXCC
11-35 Donations,

- P A R C B O A R D -

Pres : Art McBride KC6UQH 741.8143
VPres: Sybil Allbright W6GIC 278.4284
Sec : David Doan KC6YSO 286.4888
Treas: Shawna Nemeth KE6ZXP 744.0071
RptTec: John Kuivinen WB6IQS 727.3876
SCOPE : Stan Rohrer W9FQN 749.0276
MemShp: Ralph Powell KC6WAN 727.7415
Member: Mike Doyle AB6QT 742.1573
Member: Marvin Munster WB6PKK 747.2223

VE Program: Rusty . AA6OM 747.5872
ATV/Edu. : Bill . KB6MCU 582.2313
PALBBS : Norbert KJ6ZD 630.5538
http://www: Frank KE6WOE 941.9174

Feb. SCOPE FOLD/STAPLE

Editor: Stan Rohrer-W9FQN 30311 Ctr.
R.Ln., Villy Ctr CA 92082 . Forms
KC6WAN, Ralph Powell, Printing, Labels
KI6JM Jack Hanthorn, Folding Refresh
W6TFB Lloyd & Lisbeth Hunt, Folding
WA6UTQ . Larry Ruegseger Folding
N6WQR Bernice Rosenberg Folding
KB6NMK . Jo Ashley . Labels

Started at 12pm, ended at 2:30pm

Amateur Radio Today

(continued from page 11)

batteries that were no longer being used and the club ended up with 3,360Ahr of emergency storage ..Mike-KD6VHI spotted a "good deal" which allowed the club to obtain another 3,360Ahr of new batteries at an excellent price ..and Parviz-KD6BCU found a large number of new 38Ahr batteries which ended up in three autopatch centers, four emergency 110vac power supplies (UPS), and several small projects.

GUD DEALS: Many of our members let us know about "good deals" that they spot and the club has ended up with all sorts of communications equipment and related items.

SCROUNGING: Of course, our ACE scrounger over the years has been John-WB6IQS who can never pass of a good deal for something that we might use sometime in the future.

What can you do as a club member? Keep on the lookout for things which the club might be able to use in some present or future project. The item does not need to be electronic but something which would help the club perform its goal of providing communications to its members and the community during emergencies.

PARC thanks all of its club members for their donations no matter how large or how small. Sometimes we don't go a good job of acknowledging donations but for the most part they are greatly appreciated and make the club stronger ...year by year. =PARC=

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W6NWG

Palomar Amateur
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Dues \$12yr, Volume XXII, Number 4
Coffee 7pm, Mtg. 7:30pm @ Carlsbad
Savety Center (CSC), Palomar Airport
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Talk-in 146.730

OPEN REPEATERS / CLOSED
AUTOPATCHES, PALOMAR
MOUNTAIN REPEATERS(W6NWG)
PARC Trustee of W6NWG: AB6QT
***52.680- W6NWG, -500 MHz**
Autopatches(4): 146.730-, *147.075-
***147.130, *449.425-**

PKT: 145.050s PALMAR Open
(linked PARC 9600 METROLINK)
146.700- Duplex, BBS/EMG use
145.050/146.7- (W6NWG/PALBBS)
ATV: 915 wbfm, 919AM, 2441.25 wbfm
Intercom: 144.39, PL 79.7 nbfm
OUT: 1241.25 AM

OTHER: *224.38- & *224.94 KK6KD
***224.90-WD6HFD**
448.00- WB6FMT(123.0PL)
***146.175+ WA6IPD, Falbrk**

* = PL of 107.2 Hz

INTERNET (new)

—> <http://www.electriciti.com/parc>

Editor: Stan Rohrer, W9FQN
30311 Circle R Ln, Valley Ctr, CA92082
w9fqm@aol.com / W9FQN@PALBBS

Apr. Calendar

03 Club Mtg Carlsbad Safety Ctr 7:30p
06 Santee Swap Meet
11 PARC Board Mtg W9FQN QTH
13 PARC VE Testing Car. Saf. Ctr.
13 ARES breakfast Normal Hts
14 Mod WrkPrt WB6IQS QTH, 1pm
19 SCOPE Deadline of Ads/News
20 Mexican Bike Ride (see N6UWW)
23 SCOPE Placed in Vista Post Office
June 29/30 Field Day Exercise

NEWS WORTHY (see page)

2-Board Items, Thanks, Editor, Last
Mtg., Treasurer, Hikers
3-President's remarks, 60th Anniv. pict.
4-Field Day (cont)
5-Repeater, patches, and "stuff".
6-Projects, WrkParties, ATV, Pkt
7-For Sale, Wanted, etc., Nets
8- Nets, Hams in SDCo
9-Computer Addresses
10-News, Membership
11-Letters
12 Application, Officers, AGOGO

NEXT MEETING Sybil-W6GIC

The program for April will be on
the **San Diego Mountain Rescue**
Team with Roland Gaebert,
KE6NPN, and Jess Marchand,
KD6JKC, presenting.

The **May program** will be on
Ground Positioning systems.

Club meetings start at **7:30 pm.**
but many come at 7 pm. to talk to
friends, sample the goodies and
coffee, join a seminar, get a good
seat, or be first to see small items of
equipment being brought in for the
club's sale table where the club takes
10% of the selling price.

Check 146.730 around 6 pm. for
where members are eating dinner
before the meeting.

Please come early and help set up
chairs ...and **STAY** a few minutes to
help put away the chairs.

LICENSE CLASS Bill-KB6MCU

Sybil-W6GIC announced the
completion of Bill's General Class
and the beginning of a new

NOVICE/TECH Class on April 8th,
7 pm, at the Carlsbad Safety Center.

PARC STARS (PARC History)

Where did the **five stars** come from
in PARC's logo?

The stars come from the FCC Code
of Regulations, part **97.1**, which states
the basis & purpose of amateur radio.

97.1(a) Recognition and
enhancement of the value of the
amateur service to the public as
voluntary noncommercial com-
munication service, particularly with
respect to providing **emergency**
communication.

97.1(b) Continuation and extension
of the amateur's proven ability to
contribute to the **advancement** of the
radio art.

97.1(c) Encouragement and
improvement of the amateur radio
service through rules which provide
for advancing skills in both the
communication and **technical** phases
of the art.

97.1(d) Expansion of the existing
reservoir within the amateur
technicians, and electronics experts.

97.1(e) Continuation and extension
of the amateur's unique ability to
enhance **international good will.**

GRANT OF \$\$\$ to PARC

David Doan, KC6YSO, PARC's
secretary, has announced that he is
turning over to PARC part of a royalty
which he is going to receive from one
of his many inventions.

David has just recently received a
patent on a process which will
revolutionize the making of all cables
such as the 52 ohm amateur coaxial
cables and the 72, 300, and 600 ohm
TV cables. (Continued page 9)

FIELD DAY Wayne-WD6AHX

At the March 17th FD meeting it was
determined that our preliminary station
needs are for the following stations:
20m SSB, 15/40m SSB, 20/80 CW,
160/10m SSB, 15/40 CW,
UHF/VHF, Novice/Tech, Satellite,
and, 75m SSB. (Cont.pg.4)

BOARD MEETING (all welcome)

The March Board meeting was at the QTH of Stan-W9FQN and Barbara-KA6FPS.

BOARD: KC6UQH, W6GIC, KC6YSO, KE6ZXP, WB6IQS, W9FQN, KC6WAN, AB6QT, and WB6PKK (*=absent).

OTHERS:

KB6MCU(ATV/Training) & Joe-KE6WEO.

The 7 pm meeting started at 7:15 and ended at 9:59 pm.

SECONDS

The following were Discussed and/or **Approved:** ARRL letters on **PARC repeaters and membership; minutes; next two meetings; CD's; \$140 for rope; future programs; SCOPE ad feed schedule; April articles; AC line protectors \$360; 220 Club of SD; Rain Report fee; CW on 147.075; SDCTN vs Pkt messages; Ham Help net combined with Computer net (possibly 146.73, 9 pm. Thur); Autopatch problem and solutions; donated portable computer letter; \$25 patch parts; power supplies \$50; membership 862; color ATV monitor at site; confirmed appointments of Ralph-KC6WAN as membership chairman, John-WB6IQS repeater technical chairman, Stan-W9FQN SCOPE Ed and repeater site chairman; received 5 Motorolas (2m) at \$10ea; modification of Motorolas at WB6IQS QTH; Field Day; Ham classes; Mike-AB6QT officially **PARC Trustee of W6NWG; trailer \$150; next Board Meeting at W9FQN's QTH.****

After the meeting the PARC trailer was inspected.

TREASURER Shawna-KE6ZXP **BALANCE SHEET for February**

| | |
|--------------------|----------------|
| \$7,470 Equip Res. | \$10,572 Check |
| \$5,552 Operations | \$ 2,326 CD's |
| \$13,021 Total | \$ 123 Misc. |
| | \$13,021 Total |

See me at meetings for a detailed report.

Printing costs for the SCOPE are running about \$300/mo and mailing costs about \$80/mo. We have deposited \$100 with the post office and then I pay the current postage which means that we usually have \$100 on deposit with the Vista PO.

Payment for SCOPE ads are billed every three months and are sent out Feb., May, Aug., and Nov. 15th. The same is done for all repeater site rentals.

LAST MEETING

Attendance was 130 members and 12 guests for a total of 142.

Marvin-WB6PKK showed slides of his participation in **Baja Off Road Races** with several other club members participating in these events. **Bob Ward, WB6WTE**, explained the **Baja Amateur Radio Association** and asked interested amateurs to contact him.

The race shots were superb and so were the shots of some fantastic Baja scenery.

A good time was had by all with many questions being answered after the meeting.

Show and Tell had Nash-W6HCD talking about the **Meling Ranch** in Baja & their problems with coax connectors while Art-KC6UQH showed video of his 70mi ATV contact with Palos Verdes on 10 GHz..

There were additional reports from RACES, ARES, and ARRL.

THANKS TO:

Tim-N6ZUC for the donation of 10+ chips for recording 20 seconds of audio. They can be "chained" together for longer periods of time.

George-K6YGK, and **Dennis-N6KI** for magazines for your editor to read, and **Milt-W6MK** for copies of the W5YI report. George also had a picture that will be included in a SCOPE sometime when I get access to a scanner.

Bill-WB6MCU & Sybil-W6GIC for a video tape of PARC's 60 anniversary meeting.

Art-WB6YHZ/Anita-KB6YHY made the coffee and supervised the drink & goodies ...and members bringing goodies were: **AA6EE, KM6PY, K6YGK, KA6PSG, WB6GXR, and KD6YJB.**

The goodies were great and you were rewarded with **ONE** participation ticket for prizes at the club picnic next Fall.

EDITOR Stan-W9FQN

This is your editor's first attempt at producing the SCOPE on an IBM computer and the experience has proven quite painful after having had such an easy time of it with my 1983 **Radio Shack Model-4** computer.

The setup now is a **DATTEL 120MHz Pentium** and a **Cannon BJC-610** printer. They all seem to work but they "fight" me all the way!

Things that used to be easily done with the old RS Mod-4 are now taking almost twice the time and I can't seem to find what I am looking for in the book! *Time is a great "healer" of all things*

Muchas gracias to **Ralph Powell, KC6WAN**, and to **Frank Littlebury, KE6WEO**, for their help in getting me "up to speed" on my first issue of the SCOPE on an IBM computer.

If you call me on one of the repeaters, please indicate which repeater you are using. I monitor them all (73, 075, 13, & 425) but usually have 147.13 and 449.425 turned up the loudest.

HIKERS APRIL HIKE

The Saturday **April 13th** hike will be in the Blair Valley area near **S6/78**. Primitive camping is available so bring about 2.5gal/da/person. Hike **starts** at 11pm (be there early) and will last several hours. Hike is open to everyone including non-members. **The hike is not sponsored by the club.** More information is available on 9pm Friday net and at the back of the room after the club meeting. Overnights are welcome. Shorter hikes are available. April flowers should be in bloom. Bring a camera.

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PRESIDENT'S WAVE **LENGTH Art-KC6UQH**

The First day of Spring has arrived. To Amateur Radio operators this is the time we think about Repeater Maintenance, Field Day Planing, Antenna Work and other outside activities. The first stated purpose of the Amateur Radio Service (97.1 FCC R&R) is Emergency Communications. When Commercial Communications fail the Amateur Radio Community becomes the only means of communications for our community. This is part of the justification for the radio spectrum we occupy. Field Day and Emergency Training exercises offered by several groups within the Amateur Radio Service are provided to make us experts in communication. We are called amateurs only because we are unpaid, not because we are unprofessional in our work. Amateur Radio Operators that say "Well this is only Amateur Radio" are doing a disservice to the Amateur Radio Community. Nothing we do is worth doing, unless it is done the best we can. Striving for excellence is the only way we can learn and grow, as well as become a valuable asset to our community as unpaid professionals.



PARC 60 Anniversary Party, February 6th, 1996 (Feb 13th, 1936)

Left to Right: Earl Burdett, **W6YYV** (oldest licensed '26); Harry Fields, **W6LKC** (founder); Mable Fields, **W6YZV** (1st SCOPE Ed); & Jack Cornell, **W6MMO** (founder).

Photo WB6IQS

For the benefit of new and old members here are the Emergency Communications Groups I have knowledge of in our local area.

EOC (Emergency Operations Center) is supported by the Office of Disaster Preparedness (A San Diego County Agency). All of the groups listed below report to the EOC in a major emergency. The EOC is responsible for coordinating the efforts of all of the emergency communications groups.

RACES (Radio Amateur Communications Emergency Service) Provides Emergency Communication for Government Services. Equipment is funded jointly by F.E.M.A. and The San Diego County Sheriffs Department. RACES when activated by during a declared disaster has priority over other Amateur Radio activities. RACES members are trained and may be called upon to operate Sheriffs Radio equipment as well as Amateur Radio Equipment. RACES has a large communication van with Radios both on Public Service and Amateur frequencies, a crank up tower, 5.5 KW generator, and operating positions for ten people.

RACES Has their own Amateur Radio Repeaters maintained by the San Diego County Radio Department.

RACES Members have workers compensation insurance during RACES activities and have responded to several search and rescues, plane crashes, and the flooding of Delzura in January of 1993. For more information **contact John, N6URW or Jo, KB6NMK.**

ARR (Animal Rescue Response) is sponsored by the San Diego Humane Society. They respond to the needs of evacuating Animals during fire and flooding. They hold training sessions for Amateur Radio Operators one Saturday each month. For more information **contact the Humane Society or Jerry, KC6BJM.**

ARES (Amateur Radio Emergency Services) is sponsored by the ARRL and provides Emergency Communications for the Red Cross, Salvation Army, CDF (California Department of Forestry), and EMS (Emergency Medical Service). They are a local activating group, and have PARC approval to use both our 146.730 Voice

Repeater and our 146.700 Packet Repeater during Emergencies. ARES has a Saturday Breakfast Meeting on the second Saturday of each month at the Normal Heights United Methodists Church, 4650 Mansfield St., San Diego, at 7:00 A.M. ARES publishes a Monthly News letter, has a Web Page (See ARES under our PARC page) and listen to the ARES 2 Meter Section Net Sunday evening 146.265, at 7:00 P.M. for the latest update on ARES activities. For further information **contact Dave, KC6YSO, Dennis, K7DCG, or Pat, KC6VVT.**

EMS (Emergency Medical Service) is a self activating Group to provide communications to local hospitals during an emergency. For further information **contact Wade, KE6BZI.**

Red Flag Patrol operates under CDF (California Dept. of Forestry) and coordinates with ARES. Training begins with the Fire Season in late July or early August. Members patrol unincorporated areas of San Diego looking for fires and arson suspects. C.D.F. pays mileage. Red Flag Patrol is looking for operators with 75 Meter phone capability, besides operators with 2 Meter F.M. 25 watt mobile radios. Patrols are done during the Fire Season only. For further information **call Nash, W6HCD, Kazuo, WA6BCC or Jo, KB6NMK.**

Nash, W6HCD would also like to thank Club members for their donation of old eye glasses to the Flying Samaritans. They are cleaned, measured, and donated to eye clinics in Mexico for distribution to the needy.

EVAC (Emergency Volunteer Air Core) needs Amateur Radio Operators must be RACES Members, with equipment to ride with volunteer Pilots as an observer for evaluation of earthquake and flood damage during emergency operations. Some of the Aircraft have ATV capability and EVAC

demonstrates this equipment at the Avocado Festival in Fallbrook each year. For further information **contact Scotty, KH6TL,** or check in to the EVAC Net on the 2nd & 4th Monday at 6:45 P.M. on our 147.130 Repeater.

San Diego Mountain Rescue. See their program at the next Palomar Meeting. For further information **contact Roland, KE6NPN.**

MARA (Mercury Amateur Radio Association) is a private group that supports their Membership and also helps ARES and Red Cross with emergency communications. They have a Net on Sundays at 8:30 P.M. on our 147.075 and a practice drill on simplex on Saturdays.

During emergencies MARA has PARC Approval to use the 147.075 Repeater. For further information **contact Bob, N6AFB, Blackie, KE6IQQ** or check in to Net on Sunday evenings.

Field Day is and always will be a practice to help us learn to handle traffic in a emergency with out the benefit of repeaters, using portable power in a field condition. For further information **contact Wayne, WD6AHX.**

All of these Groups offer and require training. Trained operators are the solution, untrained operators become part of the problem.

Please join one or more of these Groups and become part of the solution. Thousands of man-hours of time are donated annually by Amateur Radio Operators who are members of the above organizations in an effort to make our County a safe place to live in. Say Thank You to these Groups by joining, and give them a helping hand. Then do your homework. Check into The San Diego Traffic Net and practice in handling messages that we might be called upon to originate or receive, and deliver during an emergency. Practice Auto Patches on a regular basis, and be prepared to assist others in time of emergency.

FIELD DAY (cont.de pg. 1)

We are still looking for station **Chief Operators** (COPs), station operators, computer loggers, and support people for each of the stations. Be sure to contact me if you can help us in any way.

Loggers type in the calls of stations heard and advise the station operators whether the station has been worked before. Typing skills would be nice.

Field Day each year is our opportunity to display our abilities in communicating to stations throughout the USA under emergency conditions and in years past we have almost always been at the "top of the heap."

The **NOVICE/TECH** station is very important to us since it does not count against us as a station and we can add in all contacts on a "free" basis. The station operates all novice and tech frequencies. CW contacts are at a premium since they count double points. Its always great to have someone just getting ready to upgrade to General doing CW for this station. Nov./Techs...we need you!

The **VHF/UHF** station is another freebie station and we need operators and equipment.

Another freebie is the **satellite station.**

The last freebie station is **Packet** and we need a group with knowledge of SDCo. and the LA areas to head up this station.

CW operators are really a big part of our operation since all of their contacts count double. If you are up to 13wpm, we need you. If you are below 13wpm, you might work out as a logger for a CW station.

We need support people who are willing to help us set up towers, antennas, stations, emergency generators, help feed the group, run errands, etc.

Field Day is an excellent opportunity for you **new hams** to see all sorts of new equipment and learn about the various aspects of amateur radio other than just 2m repeaters.

Please contact me by packet at PALBBS, over the phone (729-3110 **Carlsbad**), or see me at the next club meeting. Lets make this another great PARC Field Day!

REPEATER TECHNICAL/OPERATIONS, PATCHES, SITE, WORK PARTIES, PACKET, ATV, etc

(4-86) ...K0JPK on 146.73 in LA finally turns off automatic IDer that has been driving us nuts ..considering Lincoln Middle School in Vista as a meeting place ..March meeting by Bill-WB6ZZN of SDCo. Sheriff's Dept. on 911 ..membership over 300 ..provided communications at Vista Hotel fire ..HT transmitter hunts by EARS 2nd Sat. of each month ..

TECHNICAL John-WB6IQS

We have received the five Motorola Motracks for conversion to two meters. Some will be used for repeaters and the rest used for "spare" parts. Cost was \$15 each. I have collect most of the capacitors needed for their conversion and we will probably modify them all at the same time. Anyone interested in working on this project should see me ASAP. Some knowledge of soldering is needed.

The workparty will be April 14th at 1pm. at my QTH in Vista. Please bring solder irons, AC cords, chairs, card table, and small hand tools. We will be modifying seven Motorola Micors to amateur frequencies. The 146.730- repeater will be used for "talk-in."

OPERATIONS Stan-W9FQN

The recent snows left 14" of snow at the repeater site and the rain piled up 4" of ice on the windward site of the tower and all antennas. One corner reflector painted black had no ice on it!

Please do not increase "your allotted" talk time on the repeater by defeating the "time-out" timer by saying "RESET" and dropping your carrier. A "RESET" should only be done during emergencies. Control Operators have been known to turn off the repeater on individuals doing "unnecessary" RESETS!

If someone comes up on one of our repeaters who is a **non-ham**, it is almost always wise to say that you would like to help them. Would they

PALOMAR ENGINEERS

Box 462222, Escondido, CA 92046

TOROID CORES

Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request. Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. **Model RFI-3 \$18 + tax + \$6 to ship.**

RF CURRENT METER

Measure the current in your radials, see which ones work and which ones are broken. Check for current on the coax shield, etc. Useful from 1ma to 5amp 1-30 MHz.

Model PCM-1 Clamp-on Current Meter \$125 + tax + 6 S&H.

R-X NOISE BRIDGE

Learn truth about your antenna, & resonant frequency. Adjust it to your operating frequency quickly and easily.

Price \$79.95 + tax + \$6 S&H.

LOOP ANTENNA

Small table top direction finding antenna with amplifier (20dB) and selective tuning control. Covers 10-40 KHZ, 40-150 KHZ, 150-550 KHZ, 550-1600 KHZ, 1.6-5 MHz and 5-16 MHz.

Model LA-1 Loop Amplifier \$99.95 + tax + \$6 S&H. Plug-in loops (specify range) \$89.95

TUNER-TUNER

Tune your tuner without transmitting. Save that rig!

Just listen to the Tuner-Tuner's noise with your receiver. Adjust your tuner for a null and presto! You have a 1:1 SWR.

Model PT-340 \$99.95 + tax + \$6 S&H

Please check our complete ads in QST, 73, CQ, and World Radio magazines.

please give you their name and address so that you you can send them a club newsletter or help them. **After** you get the address (and **phone number**), then advise them that they are operating illegally! The order of asking questions is **very important!**

PATCHES Jerry-WB6FMT

NOTE: 911 calls are no longer permitted on the PARC autopatch system. If you have a problem that needs to be reported, you will have to call someone either on the radio or the autopatch system and have them make the call for you. This is being done because of several crank calls

that we cannot trace. We have also had some problems with HT's in cars with rubber duckies for antennas that have gone behind hills (or never never land) and left the 911 operator "hanging" wondering what is going on. By early summer we should have some "emergency boxes" available where you can enter a code and get the nearest emergency station along with the nearest AAA location.

Sorry about that! We survived for almost four years and just the past two months have put an end to this service.

It should also be noted that the county 911 system is becoming overloaded because of the proliferation of celular telephones. Many persons with cell phones are calling in the same accident tying up the 911 system. CHP recom-mends you stop and make your report on the roadside yellow phones.

Due to circumstances beyond our control, we have had to shut down most of our patches from the 11th of March until the end of March. This is not an equipment problem but due to problems generated by someone with un-authorized transmissions. Most of the time the 147.13 patch was left operational but turned off in the late evening when a control operator was not available. The 449.425 patch is off until mid April.

The autopatches are not for chit-chat! State your message quickly and release the patch for someone else to use.

New members need to remember that if an autopatch attempt fails, you need to **close down the patch with a # and then start all over.** Failure to do so could leave digits in the computer which will foul up your next attempt.

If you punch in your 3-digit access code, you need to give your call letters even if the patch does not come up for you. Lately we have had to turn off the patches and we don't turn them back on for **anyone** that

does not give their call sign.

We have received a "black box" that will allow us to **decode DTMF** (touch tones) at the repeater site, send them to a computer, and then send out modified DTMF tones for specific applications.

Stan-W9FQN is working on the electronics packaging and computer programming and I will interface the unit at the repeater site. The laptop computer was donated by **John-WB6IQS**.

The unit will permit us to **allow or disallow** certain sequences, permit automatic selection of where the telephone number is located in San Diego County, and allow "speed dialers" to send access codes plus phone numbers from your dialer memory. The old system will remain in place so if we loose the computer you will be able to revert back to the old method (really present method).

The unit will also allow us to program the functions of all of our repeaters for automatic operations.

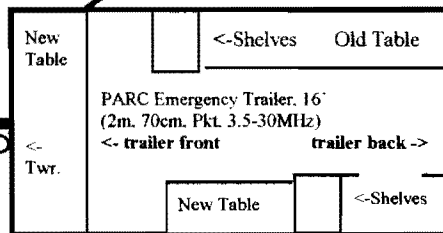
PROJECTS (contact W9FQN)

PARC is looking for someone who would like to work on a **voice announcer** to be used on PARC's many nets. You would be the "project engineer" and see to it that the project is completed. We have all of the 20 second voice chips needed for the project and will supply other needed items to you. **Tim-N6ZUC** donated the chips to PARC.

We are still looking for help with the **club's trailer**. If you want to borrow the trailer sometime for a contest or just an amateur radio weekend, we hope that you **volunteered to work on it when you had the chance!**

The trailer needs: shelving, .25" plywood on the floor, patch several sides, and the ceiling ...to start with! At present there is only one desk installed. The other two need to be constructed with the one at the front first. See diagram next column.

The trailer will soon be taken in to



Jo-KB6NMK's QTH where her son, **A.J.-KB6NML** has consented to start work on some of the needed modifications ..but he will need help from all of us!

Norbert-KJ6ZD has obtained for PARC a small color video camera and a video generator which we can use to **monitor** things at the club's repeater site. We need someone who would like to work with remotely controlled motors (*possibly stepper*) so that we can control the position of the camera head. We will then "pipe" in the video into the club's ATV system allowing us to "pan" the site, inspect the tower and antennas when loaded with snow and ice, read the rain gauge, check temperature, and inspect the site when an intrusion alarm "goes off."

WORKPARTIES Stan-W9FQN

Scheduled work parties have been suspended until the snows melt and warm weather comes to Palomar Mt. One of our first jobs will be to repair the Freezer building roof and then to clean up the site from the winter storms.

(2-2) **Bill-KB6MCU** braved 14" of snow and ice to return the 220 Club of SD's 224.9 repeater which had failed several days earlier and was "blowing" squelch.

Unfortunately, when he was ready to leave the site he discovered a communications truck stuck in the road. It took everyone about four hours to get it "unstuck" so that Bill could leave the site.

(3-8) **Less-KE6QIN, Bob-KA6NZL, & Stan-W9FQN** attacked the club's emergency trailer (*presently stored at W9FQN's QTH*) ripping out the non-working stove &

refrigerator, front couch area, old shelves, porta-pottie stand, sink, compressed air water tank, and associated plumbing. The frig is a gas unit and might possibly be reparable. Anyone want to play with it? There is also an under floor gas heater. Anyone have experience with gas frigs or floor heaters? It took one hour to clean out the trailer with all of PARC's surplus junk that was stored in it and two hours to rip out all of the non functional fixed items.

AMATEUR TV John-KD6TLF

It has been rumored that the color TV camera and electronics donated by Norbert-KJ6ZD will be installed at the repeater site when the weather improves.

Your editor last month missed an amateur television signal report:

KD6UQH, P5 (line of site), Esc.

At the next club meeting, Stan-W9FQN will have ATV catalogs from **PC Electronics** as well as their "What you need for an ATV station."

PACKET Ted-KD6AKT

The 146.700- packet repeater is working great.

I am still doing seminars on packet before club meetings in the **RACES room** across the hall from the main meeting room. If you are just starting in on packet or would like some additional information, be sure to drop in and see me before or after the club meeting. Also don't forget the Tuesday evening **Voice Packet net** on 146.730- at 9 PM.

Because of a conflict on the use of my portable computer serial port, my portable packet system failed to run at the last meeting but the problem is now fixed. If you left early, stop in next meeting for the "real" stuff.

It certainly would be nice to have a PARC packet mailbox at our site on Palomar Mt.

INVITE SOMEONE
TO JOIN THE CLUB!

For Sail

Phone or send ads to your editor: mail, packet, or E-mail before the 20th of each month. Copy your ads after the form used here in. **Personal** equipment ads are **free** to members.

Commercial Ads: \$2/column inch/mo. or 25c per column line. Ads billed Feb., May, Aug., & Nov.

Kevin Sanders, KN6FQ, in Escondido is now handling PARC's extensive tube bank. Contact Kevin at 432-8381 for availability & prices.

NEW ADS

(03-20) 62yrs of QST, all or nothing: WaltH.-WJKRQ 722-3248.

(02-20) **Okidata 192+** near letter quality dot matrix printer, stand, box of paper, parallel cable, manuals, IBM compatible \$49; Howard WB6AKM 453-3156 nites or 642-2400, ext 1201 days SD.

(1-23) **Kenwood TS-520** xcvr ex/cond w/Shure desk mic: Jo KB6NMK 741-2560 Esc.

(1-18) **Kenwood MP-100** mounting bracket for TS-130: Jo KB6NMK 741-2560 Esc.

(1-4) **Hamond Organ** with course was \$2,300 now \$400 or trade for HF/UHF equip: Steve W2MRM 451-5690 R. Bernardo.

(1-4) **Kenwood TS-440s/AT;** Kenwood Pwr Sup PS-50; **Butternut** ant HF6V (10-80m); various ant tips for Hustler: Joe N6RVO 433-6885.

(12-22) Super ant twr used for wind tower near Palm Springs 72' (base 9' top 2' > 3250 lbs @ \$1000 & 112' (base 13' top 2') 5125 lbs @ \$1500 ea hinged at base: Jim N6UFE 714-645-9849.

(12-22) **Alpha 374A** 2kw HF amp \$1250 or will consider trade on Kenwood 940/440: Dennis N6KI 271-6079.

(12-15) 16MHz **286 IBM** Clone 40MB h/d modem EGA monitor \$250: Tony 223-8077.

(10-03) **Power supplies** 5v@2A-

35A \$5-\$35: Mike AB6QT PalMt.

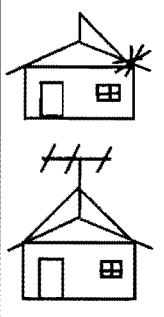
Please let me know if you buy or sell so I can take out the ad!

WANTED: A few good men/women.

(2-22) 1992 **ARRL Handbook**, any condx, for library: Duane AA6EE 789-3674 Ramona.

(2-16) Lost manual for **TH28A HT** in move de Texas. Need copy. Pat KC5NJU 743-6592 Esc (or DATEL Esc/SM).

(1-26) Help with a **TH-28A HT**.



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!

Radio systems installation, repair and removal, and interference resolution.

Edward Ross, N6GZI
(619)542-1405

Antenna Specialties

Call Rick and Lani 489-1126 Esc.

(1-26) **HyGain Telex HAM IV** Rotor: Troy KE6ASO 287-3910 SD.

(1-26) Anyone interested in **Astronomy** or **telescopes** of any kind for general interest activities and cooperation up to projects and observatories: David L. White, PIRA, 724-5671.

(1-24) **Ranger II**, E.E. 200V, and other old tube gear especially receivers for serious educational station: David White 7245671 Vista.

(1-12) **FEX767-2 & FEX767-6m** modules new/used for Yaesu FT-767GX: James N8NHV 967-6313 leave msg.

(12-22) IRC 2.1 KHz **filter(s)** for Kenwood 940/850: Dennis N6KI 271-6079.

(10-20) **220 mobile** with PL: Bill N6FMK 941-9492 Vista.

(9-13) **Color monitors** which have video and sound inputs to be used in

five medical clinics in **Mexico**. VCF's will be used to play "health topics" to patients as they are waiting to be seen by the doctors: Nash W6HCD 940-1028 Bonsall.

Fallbrook High School will take any and all donations of amateur radio equipment. We need radios, a Tri-band beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

NETS

Each of PARC's nets must serve a purpose and when they no longer do so we must consider changing them, combining them with other nets, or dropping them.

The **Ham Computer Net** has had a very poor turnout during the past few months despite Paul-KD6JXY's attempt at single handily trying to get it back on its feet.

Because of interference, the **Ham Help Net** needs a home. This net is very active and has good organization. It is for this reason that the PARC Board has decided to let the Ham Help Net take the Thursday evening time slot at 9 PM. on 146.73 beginning the first week in April with a trial period of two months.

This will put all of PARC's technical nets on the same frequency, the same time, and on the same repeater.

Mon. Microwave Net

Tues. Voice Packet Net

Wed. Spanish Net (non-tech)

Thur. Ham Help Net

Fri. Hikers Net (non-tech)

PARC wants to serve as many interested amateurs as possible and will make changes as needed.

This leaves 147.13 with only one net and 147.075 with only the Morse Code Nets and MARA.

Morse Code: Larry, KO6SM, (former KD6CKR) has consented to take over the Monday evening CW net until Ed, KD6WDE, is able to return to the net.

PARC Morse Code Net

Mon. KO6SM, Larry Kenan
 Tue. WA6YOO, Harry Hodges
 Wed. WA6TIL, Paul Christensen
 Thu. KO6BT, Duane Naugle
 Fri. KO6IQ, Erick Tillery
 W9FQN, Stan Rohrer, Sub.
 Net manager, Paul-WA6TIL.

Evening Traffic Net: This net is used to **train traffic handlers** but you can't train what you don't have! An additional problem is that we are trying to check out the usefulness of **PALBBS** and **146.7- Pkt.** as used by traffic handlers.

This causes a conflict in some traffic handler's minds. Some think that packet is taking too much of the traffic and not leaving enough traffic for the 8 pm. traffic net. Then there are others who feel that when there are large numbers of messages to be delivered that it is easier to pull them off of the BBS and deliver them in the afternoon before the net.

First, the messages must get through. If they cannot be handled quickly over the voice net, then they have to be delivered after being picked up on packet. We need to keep pushing for more traffic handlers so that we are ready to handle large volumes of traffic during emergencies.

Secondly, PARC needs to know that its efforts with 146.7- and PALBBS have resulted in another system of delivering messages in emergencies. Packet can take care of more sensitive messages and routine messages. If we do not push the limits of PALBBS and 146.7-, we will never know just what can be done on our packet frequencies. The 146.7- was established in the first place because the packet simplex frequencies were **jammed with other traffic** and **low power** stations could not get the frequency because of their location or were "clobbered" by other stations "hidden" from them. The 146.7-repeater negates these problems allowing low power emergency stations from almost any location

(hospital or EVAC center) in SDCo. to access PALBBS and the soon to be established **ARESDATA BBS on 146.7-.**

Both systems need to be up and running at top efficiency but they are both competing for the same traffic.

Almost all of the military traffic comes in on **RTTY** and then it is transferred over to the **voice bands** or to **packet** for delivery.

It looks as if the voice traffic handlers and the digital boys (packet) are going to have to work together trying to keep both systems alive since we are going to need them both during times of emergencies.

And then there are the CW boys who believe that that is the "only way to fly." Or the ATVers who think a picture is worth a thousand words.

Hiker's Net: The 9 pm. Friday evening Hiker's net held their first hike March 16th on Palomar Mountain. There was still snow on the ground in some locations but the sky was clear and the sun warm which all made for a very pleasant Saturday afternoon hike of about five hours.

The hike started at Doan pond with a circle through Bucher hill where we rested and admired the view. Then back to the pond which was mostly down hill. The big trees were BIG.

Those participating were Matt-KF6BRC and his father, Dick, who used to hold WN6VHN; Bob-WA6QQQ and his wife Judy-WD6BEZ; Irvin-WB7ATT; Stan-W9FQN and wife Barbara-KA6FPS; and last but not least, Glenn-KE6ZLY. Glenn's wife held down the base camp while we were gone.

Check future nets for the time and location of our next adventure in April which will probably be out in the desert to see all of the "pretty" flowers. **All are welcome.**

H A M S in SDCO.

There are over 7,000 hams in San Diego County with the numbers in

some of the areas served by PARC being:

San Diego(3,997), Escondido(494), El Cajon(479), Chula Vista(393), Oceanside(349), Vista(314), La Mesa(263), Poway(251), Carlsbad(212), Ramona(188), Fallbrook(170), San Marcos(137), Encinitas(131), Del Mar(86), National City(72), Valley Center(53), Julian(28), and others too humorous to mention.

Unfortunately, many cities in the San Diego area have names but their mailing addresses are San Diego. This was a partial list and if you can add to it, send the information to your editor.

There are 108,439 amateurs in California.

PARC NETS (15)

All 146.730 8pm Traffic Net (SDCTN)
 Sun. 146.730 8:30am AREmergency Service
 Sun. 146.730 10pm Sailor's Net
 Sun. 147.075 8:45pm MARA Net
 Sun. 146.730 9pm This Wk in SDCo.
 Mo. 147.130 6:45pm EVAC (2nd/4th Mon)
 M-F 147.075 7pm Morse Code Net
 Mo. 146.730 7:15 RACES sub Net
 Mo. 146.730 9pm Microwave Net
 Tue. 146.730 9pm Voice Packet Net
 We. 146.730 9pm Spanish (2nd/4th)
 Thu. 146.730 7pm Young People's Net
 Thu. 146.730 9pm Ham Help Net
 (electronics, computers, antennas, license theory, etc.)
 Fri. 146.730 9pm Hiker's Net
 All. 147.130 10+ pm King Henry's Net
 (open to all facetious amateurs)

New club members should check PARC's nets and find something of interest to them and then pursue one of their interests. This is a good way to find out more information about your hobby and to become better known among our club members.

The Ham Help Net is a good net to check into to get questions answered. There are many hams checking into this net with wide experiences from basic electronics to the most complicated. If they don't know the answer, they probably can find it out for you by the next net. No question is too silly and you are showing interest which all hams admire.

**CONSIDER JOINING THE
 AMATEUR RADIO RELAY
 LEAGUE**

(PARC grant continued de pg.1)

It has been estimated that the production of these cables runs around 1,000,000 feet per month and David will receive from a licensing agreement a little over one cent per foot royalty of which he has graciously agreed to designate 1/10 of a cent per foot to PARC.

He says that he owes everything to PARC since the original idea came to him while at a PARC work party at the Palomar Mountain repeater site while discussing PARC's problems with coaxial feedlines with Art-KC6UQH, John-WB6IQS, and Stan-W9FQN. David received his degree in Physics from Texas University and graduated soon after.

According to the licensing agreement worked out with Andrew and Amphenol (and others), David should receive approximately **\$10,000/mo.** and PARC **\$1,000/mo.** which will definitely reduce David's need for buying lottery tickets ...and allow PARC to buy "first class repeaters" like everyone thinks we need ...with all of the bells and whistles.

The principal behind the patent is that power is always lost when traveling through a resistance and obeys the rule that power lost is equal to the square of the current times the voltage ($P=I \times I \times R$). If one can reduce the resistance term to zero then the product of "I" squared times zero yields **ZERO** as its answer. This results in no loss of power in going from the transmitter to the antenna except for SWR losses. Just imagine the power saved in amateur 52 ohm cable and even in the TV cables which have as much as six times the resistance of amateur cables.

Besides the projected monthly income, David (and PARC), are looking at a "one-time" bonus of everyone changing over from the high loss cables of today to the new low loss cables during the first year.

Unfortunately, the original agreements fix the price at 1c/ft and while



DSP 100

The PC Transceiver

***General Coverage Receiver**
450 KHz to 30 MHz

***-10 dBm exciter** output for all HF amateur bands. Simple no solder components available to raise power output to 50 or 100 Watts.

***High Dynamic Range** Direct Conversion Architecture with full DSP.

***Two ISA bus card system**, uses an Analog front-end Card and a DSP card for all passband filters and modulation / demodulation.

***FREE software upgrades.**
Call our BBS on (619) 744-4032 for more information and FREE demo software.

Receiver/Exciter + DSP \$695+tax

COMER COMMUNICATIONS INC.,
609 Washingtonia Drive,
San Marcos, CA. 92069.

it is expected that the demand for this new cable will drive the price of all cables upward during the first year or so. We will not profit from the price increase since the agreement is for length ...not selling price.

Basically the cable(s) undergo a simple process of having a **very high** current passing through the cable in a very short time by using a banks of 500 microfarad capacitors charged to 30,000 volts. This is applied to the cable resulting in thousands of amps of current flowing for only microseconds. The high current re-aligns the basic electron structure of the wire so that the resistance of the cable is almost zero. David then uses Teflon coated silver wire allowing the electrons to "slip" through more

easily which further reduces the resistance to as near zero as you can get by shorting one end of the cable together and measuring the resistance with a high grade digital voltmeter.

Back during the CB craze, David came out with a very popular compound which was used by CBers all over the world to reduce the SWR on their antenna feedlines and it was applied by hand over the entire length of the cable. It went under the trade name of "SWR Grease." It is quite possible that this compound could also be used on this super cable to further reduce amateur's problems with power loss and SWR problems.

David has been "given" almost 10,000 feet of the new 52 ohm cable for amateur experimentation which he is willing to give free to amateurs in the SDCo. area provided that they will be willing to give testimonials for the new cable and allow their pictures in national and international radio magazines.

Contact David at 619-631-6006 for information and free samples or at 277-4536-65. David is still looking for easy to remember word(s) for this last telephone number (i.e., GOOD WIRE) or possibly someone might suggest another telephone number that would more accurately describe his invention.

PARC wishes David well with his new patent ...and PARC will be looking forward to its first check. The Board has discussed possibly flying all PARC members on an all expense trip to Ensenada at the end of April similar to the one two years ago which ran into a few problems. Up to date information will be on PALBBS's port 13 described in detail last April 1st. =PARC=

COMPUTER ADDRESSES

If you have a computer address, and have no objections to it being published, please send it to Stan-W9FQN before March 31st. After that date he will probably be using his wife's (KA6FPS) account listed

below.

We now have the following e-mail addresses for a few of our club members:

KF6AZU, BHimes7991@aol.com; Barry W9FQN, ka6fps@sdcoe.k12.ca.us; Barb/Stn W9FQN, w9fqm@aol.com; Stan.(ends 3/31/96) N6QDB, kalari@msn.com; Susan AB6QT, mwd@gerry.palomar.caltech.edu KD6JXY, barryh@rmp.com; Paul WB6PKK, mmunster@qualcomm.com; MM WA6UTQ, wa6utq@connectnet.com; Larry KC6WAN, redpowell@aol.com; Ralph KE6WEO, joe@sd.inri.com; Joe KE6WEO, frank@electriciti.com; Frank KC6YSO, daved@cts.com; David

And then there is PARC's World Wide Web maintained by Frank-KE6WEO:

(<http://www.electriciti.com/parc>)

One might question the including of computer addresses in a "Ham" newsletter but it needs to be remembered hams cannot conduct club business over the air but they can over the phone lines. It is also more secure and personal.

NEWS / UNCLASSIFIED / etc.

Please send "newsworthy" items 2-UR Editor via PALBBS, letters, email, or notes at club meetings.

April 11th, **Gordon West, WB6NOA**, will be in the San Diego area giving a program for the South Bay Amateur radio club. If you missed his PARC program, you might want to check this one out.

Mexican amateur radio operators will be holding their Radio Aficionados Zone 1 convention in Tijuana on April 25/28th.

RACES will be holding their County wide drill on April 20th. **Contact John-N6URW or Ron-KM6MW** for more information.

Nash-W6HCD, Jo-KB6MMK, John-WB6HSZ, & Bob Miller participated in the Fallbrook Tree Planting event.

Glenn-KE6ZLY and **Barbara-KA6FPS** discovered on the Palomar Mt. hike that they seem to have something in common. Glenn grew up on the Pala Indian reservation and knows most of the tribe's elders and Barbara is slated to take over the new school on the reservation next

September.

Looks like **Paul-KD6JXY** had to yell for help when he was accosted by a pack of dogs (*they had big teeth*) while walking home. No damage done but he must have left the area rapidly since a fire truck and several police cars hit the corner soon after he left!

The Old Timers at PARC's 60th birthday party really appreciated the great **THANK YOU** certificates which **Sybil-W6GIC** makes up for all program presenters.

The new area code of 760 for North County will not foul up PARC's autopatch system since the division between 760 and the old 619 are almost the same as between sections 1 and 2. Besides the new computer automatic selection system could take care of any problems when it comes on line this summer. The deadline is Sept. 27, 1997 so we have plenty of time to make adjustments.

If you are looking for the latest **traffic information** on I-15/I-5, listen to the 146.73- commute group. If things are stop-an-go, they will tell you where to go.

It looks like a good place to look for a job is on 146.73.

Mike-AB6QT came off the mountain to help Kevin-KE6WOF put his truck back together.

A morning commute group on 449.425 is **Gayle-KM6WF, Barb-KA6FPS, Stan-W9FQN, Frank-KE6WEO, Ted-KE6WOK, Mike-KD6VHI & Chev-KE6URU. Roger-KE6NAN** and **Floyd-W6JSP** checking the frequency.

MEMBERSHIP Ralph-KCWAN

New club members wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf (A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

Please pay your membership

dues by check and not by cash ..if at all possible.

NEW / RENEWED MEMBERS

THREE YEARS; KE6WYI JOHN;
TWO YEARS; KE6ARK BOB; WB6AXW JACK; KF6BLL JAMES; KE6BUA JOHN; WB6LEH JAMES; KH6OG WILLIAM; K6PFP JEROME; KE6QIM LES; KE6VJF JOHN; KC7COP HOWARD;

ONE YEAR; VE2EQ BRUNO; WA3WOO JAMES; KJ4KK DARYL; WA5UZM BOB; KN6OL DAN; KF6AHS GLENN; KF6AVC JAMES; KF6AVF STEVEN; KF6AVG BILL; KF6BBK ROGER; KE6BGI FREDRIC; KF6BIG ROGER; KF6BLP LARRY; K6BOM EMIL; KO6BR SUSAN; KJ6BS RUSS; KE6BUE IONA; KE6BZP LIEF; KO6CT NICHOLAS; KD6DCE BENT; WD6DRI DAVID; KE6DZI JAN; KE6DZK ROBERT; KE6HI ALMA; AC6HZ GEORGE; KO6IQ ERIC; N6JNU STEVE; WN6K PAUL E; KE6LGY DIANA; WB6MAH MARY; W6MYV GORDON; KE6NMB RAY; KB6OFI CONNIE; KC6OXZ WALTER; KA6PSG LEE; KE6PTZ TOM; KE6PZD BRUCE; KE6QBW BRIAN; KE6SEH ANDREW; KD6SZO BUD; KD6TBY CYNTHIA; KD6TLF JOHN; KC6VIU SEAN; KE6WLQ JESS; KE6WYI JOHN; N6XCC JIM; KJ7MP RON; and W8MOF HOWARD.

Associates: Jef & Margaret Meyers, Bill & Cindy Jeffrey, Victor Arizola, Wm Schieffer, Arnie Hafner, Mat Obemayer and Richard, and Cindy Maynard.

CHANGES: none.

If you didn't see your name/call here but received your **SCOPE**, then you are a member!

To receive a point for **sponsoring** a new club member you will need to instruct the potential new member to write your call on his application so that your can receive proper credit.

Recruiting points so far belong to **Chris-KF6AJM(1), Art-KC6UQH(1), Cynthia-KD6TBY(2), David-KE6DZV(2), Dennis-N6KI(1), Harry-WA6YOO(1), Jo-KB6NMK(1), Mark-AA6TR(3), Mike-AB6QT(1), Pat-KC6VVT(1), Stan-W9FQN(2), Sybil-W6GIC(7), James-KA6OLZ(1), and Bill-N6FMK(1).** If we missed anyone, please let your editor or me know about it ASAP.

Last year we ended with **901** members. Membership presently is standing at 869. If we are going to exceed 900 (again) and/or reach a 1000 before the end of our club year on July 31st, we will have to work harder on increasing our membership.

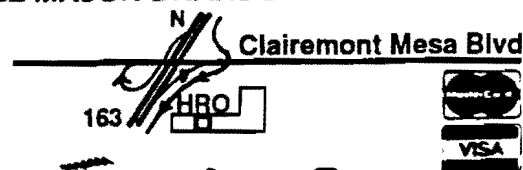
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Pg.11



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LETTER(S) to the EDITOR

Concerning repeater etiquette & timeouts. I for one, can be heard on the HF bands where my conversations can be lengthy at times. During round table discussions it is not unheard of for one person to hold a frequency continuously for 4-5 minutes and longer. When using SSB mode, it is also possible to hear many stations simultaneously, unlike the way FM works with its capture effect (ie., whoever uses the most power wins). I think some HF users forget where they are when they've been on HF, then move to a repeater. Repeaters have time-out-timers for good reasons. One main reason is to discourage short (quick -Ed) keying, where the conversation goes from one person to the next, with only enough carrier drop to reset the time-out-timer (TOT), as if someone is going to steal the frequency away, or as if we have to compete with others to keep the repeater occupied. Another reason for TOTs is to discourage lengthy keydowns by one person, thereby preventing the use of the repeater by someone with an emer-

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- 4) Ads help support the SCOPE.

gency (one main objective in amateur radio is to help those in distress). After many months of listening to the PARC repeaters, I've concluded that there are a few amateurs out there that don't take this seriously. Some have even made statements over the air (almost bragging) that "...the alligator got them..." I timed one operator who talked for a full five minutes, and reset three times in order to do so. This is not only inconsiderate of others, it is also selfish. I heard one ham talk for six minutes straight one day on the 146.73,

and he timed it out twice and never knew it until he was told so by another ham in the group. That same person one other time had the nerve to say "...boy, they should make that timer longer..." That wasn't so bad, but both of them had just finished complimenting the other on how good their signal was on the input! Why didn't they go simplex for their lengthy conversations and leave the repeater open for a life and death situation had it occurred? Rather than be amateurs about this one, perhaps we should try to be professionals.

A good practice during round table discussions should probably be to often times let it drop completely, and announce that you're letting it drop for anyone who needs it. This will allow someone with low power (such as a handheld) to get in when otherwise it would be impossible with the high power, short keying going on. Amateur Radio is supposed to be a co-operation, not a competition. (de Mike-AB6QT).

1000 by July 31st?

| PARC Membership Application | | |
|---|----------|-----------|
| AMATEUR CALL | | |
| Membership Status: Renew / New (circle) | | |
| ARRL Member? Y N | ARES Y N | RACES Y N |
| Last Name | | |
| First Name | | |
| Street Address | | |
| City | | |
| State & ZIP | | |
| HmPh# | WrkPh# | |
| Comp. Addr. HmPktBBS | | |
| Date Ham License Expires? | | |
| Family Membership | | |
| Class of License N T T- G A E | | |
| Sponsor's Call (not required) (03-96) | | |

Mail this form with your check to PARC, P.O.Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash. It's safer and you have a record. Dues are \$12/yr. including \$3 for SCOPE, or \$21 for family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is required but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet, send Self Addressed Envelope (SASE) with application or the receipt of the next newsletter mailed the last week of each month will be your only notification. Write phone No. on inside flap.

1-37 Next Mtg, Stars, \$\$ PARC grant
2-38 Board, Tnx, Editor, LastMtg, Hikers
3-39 President Message, 60th Anniver.
4-40 Field Day
5-41 Repeater(s), patches, "stuff"
6-42 Projects, WrkParties, ATV, Pkt
7-43 FOR SALE / WANTED
8-44 Nets, Hams in SDCo.
9-45 Computer Addresses
10-46 News, Membership
11-47 HRO Ad, Letter(s)

PARC BOARD

Pres: Art McBride, KC6UQH, 741.8143
VPres: Sybil Albright, W6GIC, 278.4284
Sec: David Doan, KC6YSO, 286.4888
Trea: Shawna Nemeth, KE6ZXP, 744.0071
RptT: John Kuivinen, WB6IQS 727.3876
SCOPE: Stan Rohrer, W9FQN, 749.0276
MSh: Ralph Powel, KC6WAN, 727.7415
Mem: Mike Doyle, AB6QT, 742.1573
Mem: Marv Munster, WB6PKK 941.9174

VE Program: Rusty, AA6OM 747.5872
(1st Sat.ea.mo Carlsbad Safety Center)
ATV/Edu: Bill, KB6MCU, 582.2313

Editor: Stan Rohrer, W9FQN, 749.0276
30311 Cir R Ln, Valley Ctr CA 92082

March SCOPE helpers: Ralph-KC6WAN, Jack-KI6JM, W6TFB-Lloyd & Lisbeth, WA6UTQ-Larry, N6WQR-Bernice, and WA6YOO-Harry.

PALBBS: Norbert, KJ6ZD, 630.5538
145.050 PktSimplex, 146.700-PktDuplex
WORLD WIDE WEB: Frank, KE6WOE
<http://www.electriciti.com/parc>

(IF CHECKED)
PLEASE CHECK YOUR
AUTOPATCH SHEET. YOU
ARE NOT RUNNING
AUTOPATCHES CORRECTLY!

AGOGO (PARC History)

All items taken from previous SCOPE issues.

(4-95) ..program "Life aboard Scripts ships" ..attendance 106 ..April Fool on PALBBS Port 13 ..PARC new stationary ..Presidents Tech update ..Harry-WA6YOO takes over EARS VE testing ..Newsline/Rain reports ..Field Day info ..SDCTN letter by Charles-N6TEP ..Ed-WA6EYX SK ..Ray-W6YLA SK ..Kern-K6UV SK ..club's 386 computer finished ..
(4-91) ..program on interference by Bill-KB6MCU ..101 attended meeting ..2nd time in history we have exceeded 100 at club meetings ..John-WB6IQS working on new 146.73 repeater ..Eleanore-N6QJE takes over club's "Care Committee" ..Vanessa Harvey-WB6BHE SK ..Phil-WF6L and Art-WA6IPD doing great job with Fallbrook Potter JR HS amateur radio club ..Betty-KB6DGR now in MN ..Ralph-K6HAV & Pat-N6INN report on the cold at their new QTH in Salt Lake City ..SCOPE mailing cost about 8c/SCOPE (now 10c -Ed) ..Frank-N6AT steps down as ARRL Official CW bulletin station ..

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From time to time the SCOPE uses information and cartoons from WR and in return we like to put in a plug for them: \$14/yr, mail to World Radio, 520 Clavados, Sacramento, CA 95815.

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NEXT MEETING Sybil-W6GIC

The program for May will be on Global Positioning Systems (GPS). This is a relative new facet of amateur radio and should be of general interest to all members. It has been rumored that one of our members has a unit in his wife's car!

Show and Tell: if you have anything of interest, bring it in and tell me how much time you need.

The club meeting starts at 7:30pm but many come at 7pm to talk to friends, sample the goodies and coffee, join in a seminar, get a good seat, or be first to see the small items of equipment being brought in for the club's sale table where the club takes 10% of the selling price.

Check 146.730- around 6pm for where some members are eating dinner before the meeting.

Please come **early** and help set up chairs ...and **STAY** a few minutes to

May Calendar

- 01 Club Mtg. Carlsbad Safety Ctr, 7:30p
- 04 Santee Swap Meet (drive in theater)
- 05 Repeater Site Work Party 10am P.Mt
- 09 PARC Board Mtg. W9FQN QTH, 7:00p
- 11 PARC VE Testing Carlsbad Saf.Ctr, 10a

Field Day

Sat. June 22, 11am, Start

Sun. June 23, 11am, End

help put them away. Your help is greatly appreciated!

SEE YOU THERE!

FIELD DAY Wayne-WD6AHX

Art-KC6UQH, our club president, has appointed Frank-KE6WOE as an administrative assistant to me for all Field Day activities.

There are only seven more weeks to Field Day and we will need lots of help.

We are going to be needing station heads (Chief Operating Positions) for at least eight or nine transmitting positions. These COPs will need to get Shift Operators (SOs) to cover the full 24 hour FD period. In years past we have assigned two SOs per four hour shift. One SO operates and one logs on a computer that checks to see if we have worked the station before. The SOs shift around during their four hour shift so that no one has the same job for the entire shift.

For those who have never been on a Field Day, you might want to join up with a two man SO team (if you can type call letters) and offer to do their logging for them. This will give the SOs a little more free time and you will learn how the **big guns** operate in a contest.

Please contact me or Frank if you are interested in being considered for the following:

- 1)being a COP for a HF voice station
- 2)being a COP for a VHF/UHF station
- 3)being a COP for a packet station
- 4)being a COP for the Satellite station
- 5)being a COP for the Novice/Tech Sta.
- 6)being an operator for one of the

NEWS WORTHY (see page)

- 2-Board, Membership, Treas, Membership, Thanks, AGOGO
- 3-President's remarks, SK's
- 4-Editor, Sunspots
- 5-Technical, Operations, Patches
- 6-DFing, WorkP, ATV, Pkt, Projects
- 7-Welcome, For Sale/Wanted
- 8-News/Unclassified, Tnx
- 9-N6YZZ letter
- 10-Nets, Swap Meets
- 11-SANDARC, 6m, Freqs.

above

- 7)being a **logger** for one of the above
- 8)being a member of the antenna and tower **setup group** Friday afternoon and Saturday morning
- 9)contributing a **shelter** for the weekend: motor home, trailer, etc.
- 10)being a "**gopher**" to do all of the little things that need to be done to make this year's Field Day a success. (see presidents wavelength on page 3 -Ed)

There has been some talk of an all YL FD station (YL is Young Lady -Ed)



Since last FD, someone has run off with two 2" iron pipes 10' long which are used on one of our portable towers. These will need to be replaced if we want to use one of the 40' crankup towers.

LAST MEETING

We were treated to a professional program on the **San Diego Mountain Rescue Team** showing their operation in the finding and rescue of lost and/or injured persons. They certainly are a dedicated group with many of them holding amateur radio licenses.

They left pamphlets describing their operation and if you missed picking one up, see W9FQN at the May meeting.

Attendance was 139 with 123 members and 16 guests.

Show & Tell had the showing of a two watt HF QRP (low pwr) transceiver kit put together by Russ-KO6EP and a sample of PARC's new money maker cable which had not been held down



properly on an April 1st cable run and tied itself into knots.

Announcements and reports were given by ARES (David-KC6YSO) RACES (John-N6URW), and SDCo. ARRL Sect. Mgr. Pat-WA6MHZ. David, PARC's secretary, filled in for Sybil-W6GIC who was ill.

Paul-KO6AM and Larry-KO6SM were probably on the video camera and many thanks to those who helped set up and take down the chairs (*wish we could get all your names and calls.*)

BOARD MEETING *(all welcome)*

The April Board meeting was at the QTH of Stan-W9FQN and Barbara-KA6FPS.

BOARD: KC6UQH, W6GIC, KC6YSO, KE6ZXP, WB6IQS, W9FQN, KC6WAN, AB6QT, and WB6PKK. (present/absent)

OTHERS:

KB6MCU (ATV/Training), KE6WOE (Web Site), and N6UWW
The 7:00 pm meeting started at 7:11 and ended at 9:30 pm.

SECONDS *(minutes?)*

The following items were discussed and/or **Approved:** Special Service Club materials; TASMA; 6m coordination; finances and CDs; programs; seminars before meetings; HRO & PARC brochures; SCOPE items next issue; selling at club meetings and policy; Hobby show in Vista on Apr.20th; grounding video; '96 Site Worksheet; Packet Net; CW contacts on 147.075 with W9FQN coordinator; 911 problems; autopatch status; membership 844; emergency antennas 2m/70cm; work party in May; 146.730 replacement repeater; Ham classes; ATV report; power supply \$25; Heart cycle ride; and next Board Mtg. at W9FQN QTH.

TREASURER *Shawna-KE6ZXP*

BALANCE SHEET for March:

| | |
|---------------------|-----------------|
| \$7,796 Equip Res; | Cking \$ 10,841 |
| \$5,504 Operations. | CD's \$ 2,336 |
| \$13,300 Total | Cash \$ 123 |
| | Total \$ 13,300 |

The CD represents money that was

paid ahead when members joined for two or more years.

The Board has authorized me to invest an additional \$2,000 in a CD for 6 months in April and \$2,000 in a CD for 12 months in May which will give us money when it is time to pay our insurance bills.

We are also approaching the time of year when we will be collecting dues for 96-97 which allows us to temporarily place these new amounts temporarily in CD's.

We will probably be having some large expenditures coming up soon since the board is looking into buying a spare antenna for the 2-meter repeaters (\$700) and several 70cm antennas (\$400ea). (*We almost have to go commercial grade at the repeater site because of the severe winters with wind, rain, snow, ice, etc. -Ed*)

MEMBERSHIP *Ralph-KC6WAN*

You are a member if you received a Scope--there is no separate notification. For an autopatch information sheet, a Form 610 or other information send a SASE (Self Addressed Stamped Envelope) to the Club, address on the backside of this newsletter.

Please pay dues with a check--it's so much easier. Just a check with your name and call sign will be sufficient--unless you've moved! When you do please tell us. The Post Office charges us \$.50 to tell us where you moved to. A phone call to me, 727-7415, would be most appreciated.

New Members for 1 yr - OH1BOI-Jari; KF6CRK-Charles; KD6WRL-Stephen; KC6UJN-Jeffery; N6XCE-Ralph; N6YSC-Terry; W9IF-Richard; N6VAK-Jerry.

Renewals for 3 yrs - KE6BUA-John (previously reported as 2 years)

Renewals for 2 yrs - KE6EUE-Merle; KE6UFO-Earl.

Renewals for 1 yr - KE6BUA-John; KD6JXO-Frank; WV6Z-Delmar; WA5BNH-Leon; WA6AUK-David & Norma; KE6RWT-William; W6MMO-Jack; K7DCG-Dennis; AB6QC-John; KE6SDF-J.G.; N6SWA-Mike; N6LKG-Gary; KE6TIA-Harold; WB1DSJ-Bob;

KC6HJTZ-William; KB6EPO-Eric; KE6TEA-John; KJ0P-Donald; KE6KNN-Juan; KK6GO-Ed; KK6DV-Susan.

New associate member for 1 year: Thomas Bearman

Hey, hey, **upgrade:** KD6TLF-John to AC6TS & KE6BZP, Lief to General Class. Assoc. Richard Obemayer received his new call: KF6CTA.

In mid-April we had 845 members. We lost about 25 members at the end of March & new members in the first part of April haven't made up for the loss. April is the last month for 17 members. With this issue of the Scope they will receive a special sticker on the outside of the newsletter reminding them.

By the way, you can check when your dues fall due on your label--a 4 digit number on the top line at the extreme right is the year and month your current license expires. The next 4-digit number to the left shows the year & month your dues expire. "9605" means your dues expire at the end of May 1996. Have a look to see if I did it right! -Ralph.

THANKS TO:

Goodie Table: Art and Anita Nye, KB6YHZ and KB6YHY.

Goodies: Bill-KM6PY, Paul-N6ISC, George-K6YGK, and Lief-KE6BZP.

Ellen-N6UWW for the beautiful white rose you left at the Board meeting! A week later and it is more beautiful than when you left it.

AGOGO *K6HAV/KI6JM/W9FQN*

(05-95)...attendance 140 ..program by April-WA6OPS ..Ted-KD6AKT demonstrated pkt (*still at it*) ..new rpt site bldg proposed & committee chairman W9FQN (*still not decide on*) ..list of PARC scroungers ..problems with 146.7- pkt repeater (*now solved*) ...

(05-91)...attendance 97 ..Art-KB6YHZ and Kieko at goodie table ..potpourri program ..W9FQN is temporary editor ..request for 52.525 rpt ..Bud-KG6VX FD chairman and Dennis-N6KI the whip ..Eric-KA6UAI and Chris brave deep snow and carry



147.130 out of site for repairs ..John-WB6IQS VP of local EII chapter ..CA ham license plates \$22 ..SCOPE costs 3c/pg (same as now -Ed)...

(05-86)...Jim Faughn, WD6ENK, loaned \$18,000 to the Friends of PARC at 5.25% to purchase the repeater site for the club and with the death of Jim we can purchase the site for around \$11,000 ..next meeting at new location of Lincoln Middle School (we were meeting in Glendale Federal in Vista for almost 10yrs) ..100+ at club mtg. ..liability insurance up from \$150 to \$750 ..1st set of guy wires installed on repeater site tower ..Pat-N6INN VE chairwoman ..exams now in Vista Senior Center ..OTs in area were W6UCN, and K6II ..3-pg. roster...

PRESIDENT'S WAVE

LENGTH ~ Art-KC6UQH

It is my pleasure to congratulate **Tony, KC6QHP**, for his First Place entry in the Senior Engineering Division of The Greater San Diego County Science and Engineering Fair. Tony also received an Alternate Sweepstakes Award, The Reuben H. Fleet Memorial Award, A U.S. Navy Special Award, and a American Nuclear Society Award. His exhibit entitled "Audio Video Communications Utilizing an Ethernet Based Microwave Network" along with his picture was in the April

SK SK SK SK SK SK SK SK

We regret to announce the passing of

Lee Miller, W6TDC

Lee turned 89 recently and was an old time military communicator having used Spark Gap transmitters in the early 20's. He will be missed by all who knew him.

SK SK SK SK SK SK SK SK

We regret to report that one of our PARC (1936) founding father's, **John Trent, KL7DG**, (former W6MMZ) recently suffered the loss of his wife and son at the hands of a bear in Alaska. John's address is 1700 E. Tudor Rd, Anchorage, AK 99507. (info via Earl-W6YYV)

SK SK SK SK SK SK SK SK

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(909) 678-0943

12th issue of the San Diego Union. Tony, a Senior at San Diego High School, has been active in the San Diego Microwave Group for the last one and a half years. He built a transverter unit for the Amateur 10 GHz. Band, participated in the ARRL Microwave contest and displayed his equipment at the ARRL Round Up at Missile Park last year. He is continuing to experiment with high data rate computer networking using the 10 GHz. Band. Tony received technical support from The San Diego Microwave Group which meets the third Monday of each month at Kerry, N6IZW 's QTH. All of the members of The San Diego Microwave Group are proud of Tony's achievements and growth in a very technical area of Amateur Radio as well as his exploration of a new application for the 10 GHz. Band. Tony's efforts are proof that Amateur Radio can and does contribute to the education and success of our future engineers and scientists.

The San Diego Microwave Group has a large supply of parts, and test equipment for microwave projects. They, under the informal leadership of Kerry, are the only group in San Diego County open to all Amateur Operators wanting to experiment in the world of 1.2 GHz. and higher. At one time the five Meter band was only thought to be useful for five or ten miles. Many members of the Microwave Group have made contacts of several hundred miles on 10 GHz., dispelling the old rumors of the Thirties now applied to the higher frequencies

we use today. The possibility of ducting to Hawaii is a good possibility and several Amateurs are jumping at the chance of making the first contact to Hawaii on 10 GHz.. That will be a new world record. The 10 GHz. Amateur Radio Band is 500 MHz wide and currently is under utilized. Think about that when you are trying to find an open spot on 20 Meters. Kerry recently activated a New 10 Ghz repeater (active reflector type) on Mount San Miguel. He will be giving a Paper on it at the VHF/UHF Microwave Conference in May. He also will be doing a presentation about his repeater, at Our General Meeting later this year.

All Amateur Radio Operators have an opportunity to make history on wavelengths shorter than 23 cm. or be a part of history on the bands longer than 23cm. The new Oscar Phase 3D will carry transponders on many bands including 10 Ghz., which will be launched by next summer. Now is the time to get up to speed in the most exciting part of Amateur Radio. I hope to see you at the next Microwave Group meeting.

PARC has a tradition of posting a QSL card of all Silent Keys who were members of PARC, at our repeater site on Palomar Mountain as a Memorial. Stan, W9FQN, our Repeater Site Chairman is in charge of the Repeater Site Memorial.

I am pleased to announce the appointment of **Frank, KE6WOE**, as Co-Chairman of **Field Day 1996**. Frank, who designed the PARC Web Page for us, is a strong administrator who will pull together all the details that are necessary for a successful Field Day. This will allow **Wayne, WD6AHX**, the time to concentrate on the technical aspects of Field Day. We are looking for Chief Operators and traditionally Operating Teams have competed for operating the high scoring stations.

Field Day is a emergency exercise held on the fourth weekend of June. To simulate a real emergency condition, all operations are confined to a circle of 1000 foot radius, using emergency power for a 24 hour period typically 11 A.M. Saturday to 11 A.M. Sunday.

Keeping Several stations on the air

along with their associated antennas and power supplies is no easy task, but a good training experience for all Amateur Operators new and old.

In order to access station efficiency (how many messages can we pass in a twenty four hour period) an element of contesting is added. The scores are listed in QST November Issue of all Field Day participants in June. The rules for Field Day are published every year in QST. PARC has run in Category 5A for many years and we took First Place in 1991, 1992, and 1993. In 1995 we placed Third in the Nation.

PARC has purchased over the years many towers, antennas and other equipment for Field Day and Emergency operations. We would like to have as many members as possible become familiar with the PARC equipment so that we will have enough operators to man a Field Emergency Communication Station should the need arise. We must be realistic and assume that only a small number of our members will be able to report to the site in an emergency and therefore, we must have a large number of members that are trained to setup, maintain, and operate our equipment.

Stan, W9FQN, has spent many hours stripping out the PARC trailer including the old asphalt tile floor. We hope to have the trailer ready for Field Day and Stan plans to tow it to A.J., KB6NML's QTH for further refurbishing. The PARC Board has authorized the purchase of a DSP unit to add to the equipment already purchased for the trailer. Please contact A.J. if you would like to help with this project.

I have several of the Radio Shack voice chips donated by N6ZUC and several headsets with boom mikes. I need some one who is engineering orientated to design a system incorporating these items for Field Day. Ivan, N6OLE, has agreed to do the assembly work. Having a box that says CQ Field Day will save the operators voices for exchanging information and make it a more pleasurable experience for all. Plus you will not have to explain to your employer and YL why you can't talk on the Monday after

Field Day! Call me if you can help with this project. I have a reprint of the QST article for building the box, several data books on the IC, thanks to John, WB6IQS, and the part that remains to be designed is the interface to transceivers, headsets, and foot switches.

73, Арт, KC6UQH

EDITOR Stan-W9FON

The **April Fool** article each year always poses a problem. Make it too simple and **everyone** spots it for what it is almost immediately. Make it too good and **everyone** is fooled.



Your editor has used the formula:
a)mention someone or group that everyone knows, b)mention something which is true, c)throw in a few things which seem a little strange, d)violate rules of physics, electronics, and/or common sense, e)mention something about April or previous April Fool articles.

Such was the article GRANT OF \$\$\$ to PARC. Some of the things which were starting to indicate something wrong were:

a)"..David received his degree in Physics from Texas University and graduated soon after."

b)... $P=(I)(I)(R)$ which does not apply here since this R is ohmic resistance and this cable deals with RF impedance (Z) which is a form of AC resistance.

c)all cables will read almost zero R using a VTM or VOM since you are measuring DC resistance, not RF!

d) lightning has struck many cables on towers resulting in very high currents over very short periods of time and the resistance of the cable has never changed (unless it melted down).

e)Teflon coated silver wire does not really help anything. Sounds great. Teflon can't really help inside of the metal wire.

A shorted cable almost always reads zero for short lengths with VOMs.

g)CB SWR Grease does have a nice sounding name. Must have **slipped** by some of you since “you remembered it

from your CB days?!"

**h)the phone number 277-4536-65 spells
APRIL FOOL.**

i)the last paragraph mentions previous April Fool articles ..and ends with the words **April 1st.**

Well, we will have to wait for April 97 and see what foolishness awaits us.

One of our members suggested running this "new cable" down to Valley Center *(two strands, one receive and one transmit for each repeater)* so that our transmitters and receivers would be off the mountain (thanks to David White) ..some thought the new cable should be connected to satellites for better communications ..several wanted dealerships ..several complained that the telephone numbers were no good ...thanks to David-KC6YSO for the use of his good name.

SUNSPOTS TURN UP MISSING

(de ARRL Newsletter, March 8, 1996)

Keep those low-band antennas up! Solar seer Tad Cook, KT7H, reports solar activity continues to be *extremely* low, with extended periods of no sunspots at all. "It looks like 1996 will certainly be the year of the quiet sun for cycle 22," said Cook.

Current projections show the sunspot minima (ie, numbers of sunspots observed) will occur this year, with the minimum solar flux still a year off. After the minimum, activity should begin to move upward rapidly, and even 10 meters could be exciting again in a few years, he said.

Current 80 and 160-meter conditions are good, especially with the quiet geomagnetic conditions we are experiencing. Conditions on the higher bands should improve soon because of seasonal variations as we head into spring, and not because of solar activity.

Flux levels should be back up to 75 by the third week of March, after leveling off around 70 earlier in the month. Quiet geomagnetic conditions should prevail, but some moderate disturbances are possible March 10, 11 and 23 (*wonder if this was true -Ed*).

**PLAN ON PARTICIPATING IN
FIELD DAY THIS YEAR!**

TECHNICAL John-WB6IQS

The new standby packet digipeater/repeater is assembled but still has to be tuned up and duplexed. It will operate as either the 145.05 simplex digipeater or the 146.70/.10 digital repeater. It consists of a GE Master II mobile transceiver that will be modified for use as an optional duplex repeater. A channel switch and duplex on/off switch will select between the two radio channels.

The 146.70/.10 repeater cavity system will require duplexer cavities to be used to separate the receive input radio frequency (RF) signal from the transmitter output. With duplex transmissions a single coaxial cable carries both receive and transmit signals to a common antenna at the same instant.

For the standard packet simplex digipeater it is much easier. The radio only receives or transmits at a given moment, it does not do both at the same time.

The system is housed in a 38" tall 19" rack panel made originally for our old MSY Motorola 450 MHz voice repeater. The radio is mounted on the bottom of the rack for weight balance and stability. A 13.8 VDC 15 ampere power supply is above the repeater to allow excess heat to rise and escape out of the upper air vents.

A power transfer panel turns on the AC line power only after the AC line power has stabilized for a minimum of two minutes. Power outages are common on Mt. Palomar and when power initially returns it may be anywhere from 80 to 220 VAC with voltage spikes of over 1000 volts. Unless the AC line power is clean damage could occur to the power supplies. Battery backup power is available any time the AC line power is off.

The Terminal Node Controller (TNC) is a standard MFJ 1270C purchased from Ham Radio Outlet. It ties into the discriminator audio output of the radio for the tone decoder source and the encoder tone output drives the original microphone circuit. The TNC's transmit enable signal drives the push-to-talk line on the mi-

PALOMAR ENGINEERS

Box 462222, Escondido, CA 92046

TOROID CORES

Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request. Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. **Model RFI-3 \$18 + tax + \$6 to ship.**

RF CURRENT METER

Measure the current in your radials, see which ones work and which ones are broken. Check for current on the coax shield, etc. Useful from 1ma to 5amp 1-30 MHz. **Model PCM-1 Clamp-on Current Meter \$125 + tax + 6 S&H.**

R-X NOISE BRIDGE

Learn truth about your antenna, & resonant frequency. Adjust it to your operating frequency quickly and easily. **Price \$79.95 + tax + \$6 S&H.**

TUNER-TUNER

Tune your tuner without transmitting. Save that rig!

Just listen to the Tuner-Tuner's noise with your receiver. Adjust your tuner for a null and presto! You have a 1:1 SWR.

Model PT-340 \$99.95 + tax + \$6 S&H

Please check our complete ads in QST, 73, CQ, and World Radio magazines.

crophone circuit.

It is anticipated that we will have this system on the air for 145.05 MHz digipeater testing in mid to late May. It will be similar in performance to the existing packet radio but has the option of filling either radio's function. The original 145.05 Motorola Micor packet digipeater will be taken off the hill for updating and modifications.

After the original digipeater is updated the radio will be moved to the 146.70/.10 digital repeater system for testing.

Speaking of emergency repeaters. PARC is also concerned about having to replace some of our antennas at the drop of a hat so within the next few months we will be ordering several new antennas which can be taken to the site when they are needed.

Discussions are being held about the advantages and disadvantages of corner reflectors vs 4-bay stacked dipoles (approximately \$500ea).

OPERATIONS Stan-W9FQN

It is now being suspected that some of the grunge heard on 147.075 is coming from stations in San Diego Co. over deviating and running higher power who are trying to get into the Catalina repeater on 147.090 (*just 15kc higher and then in S.SDCo there is another one 15kc lower -Ed*).

Remember, the interference (*pulse noise*) is not caused by the repeaters. It is by the users broadcasting on 147.675 and 147.690 with excessive signals that get into the neighboring repeaters. It has been reported that our .075 users also "gun shot" the Catalina repeater. Sometimes they even hear Morse Code (*wonder where that comes from?*). **The FCC rules say that you should use only enough power for the communications to take place.**

Members are reminded that when the repeaters broadcast a "P" at the end of each transmission that this indicates that the repeater (*controller*) **IS** or **WAS** on emergency power sometime in the **past** and that the "P" function has NOT been reset by a control operator.

Sometime we might again put a beep on the repeater(s) **during** transmissions to indicate that the repeater **IS** on emergency power at the present time.

Some repeater users have complained about the *sometimes* beep on the 146.730-repeater and that *sometimes* there is none.

No beep indicates that the timeout timer has been **turned off** to keep interference on the input of the repeater (accidental or otherwise) from timing out the repeater with the help of some **long winded** users.

The FCC indicates there must be a time-out timer on the repeater unless there is a control operator lurking someplace in the background.

If it really bothers you about the "sometimes peep," a control op can see that you **always** have a **beep**!

We have need of several members who can monitor several frequencies for us. A scanner would be helpful. All frequencies are in or just above the 70cm band.

PATCHES Jerry-WB6FMT

Our autopatches were programmed from the telephone book and **only** those



prefixes in the book appear in our *allow* tables.

It has come to our attention that the phone company has a large number of **cell phone prefixes** which we are not aware of nor are they listed in the phone book.

If anyone has a listing of the cell phone prefixes, please see that we get a copy for future additions to our *allow* tables. Otherwise you will never be able to call a cell phone.

We would also like to know if the cell phone prefix is "toll free" from every where in San Diego Co. so that it can be programmed into **all** autopatch locations.

DIRECTION FINDING

During the past few weeks our 146.73 repeater has been plagued with interference from a repeater broadcasting taxi cab instructions (a dispatcher).

Eric-KO6IQ went to the mountain and started DFing the signal and found that it was coming from a site near PARC's repeater site but because of locked fences he was not able to get a direct fix on the signal.

Eric was also involved in locating a signal emanating from south western Escondido which went off the air before it was located.

WORKPARTIES

Stan-W9FQN

The next work party (the first for the year) will be held **Sunday, May 5th**. Meet at **Mother's Kitchen** parking lot immediately to the left at the top of Palomar Mountain.

Leave your parking lights on. Talk-in will be **146.730**. We will leave from the parking lot at **10pm** for the repeater site.

We especially need **tower climbers!** It seems like those that we have are not always available at the times we have work parties. If you have climbing experience (pole or tower), contact W9FQN at the next club meeting.

Please contact W9FQN before making the trip since the weather might be bad. A decision will be made and announced on the Sunday morning

ARES 8:30 net on 146.73.

(3-31) **Art-KC6UQH** made a quick trip to the repeater site. He replaced the "numb" receiver on 147.130, temporarily fixed (*adjusted and cleaned*) a bad pot (*potentiometer or variable resistor*) in the 147.075 repeater, and "spliced" the 147.130 and 147.075 repeater receivers together so they use one of the highest 2m antennas on the tower (*really 147.730 and 147.675 receivers*)

(4-1) **John-WB6IQS** and **Jerry-WB6FMT** replaced a "prefix" blocker at patch #1, added a battery charge indicator, cleaned the battery terminals, and adjusted audio levels. All patch centers now have the new "battery charge" indicators installed.

(4-14) workparty at John's, **WB6IQH's** QTH to modify 5-6 2m Motorola transceivers that were in the 150-160 band to the amateur band of 140-150MHz. Workers were: **Daniel-KD6DKM**, **Jorge-KK6KD**, **Alfredo-KD6IYX**, **John-WB6IQS**, **Art-KC6YQH**, and **David White**.

(4-17) **Mike-AB6QT** visited the site to find why 146.73 was staying keyed on under certain conditions. The problem was traced to an intermittent fuse and we suspect that some of the weird things previously observed might have been caused by the fuse not functioning properly. Time will tell. He also check sensitivity (great) and reset squelch levels. The controller was put on a battery and several control lines were filtered when glitches from unknown sources were observed on the lines by using an oscilloscope.

(4-21) another workparty at John's QTH to modify Motorola receivers and transmitters. All of the receivers were modified and were on specifications or near to them. The 50 watt and 100 watt transmitter boards were started. The crew this time was **David-KC6YSO**, **Daniel-KD6DKM**, **John-WB6IQS**, **Art-KC6UQH**, **Jorge-KK6KD**, and a charming young lady (**Daniel's XYL**), **Elba-KD6IYL**.

Modification requires retuning of all coils but when the frequency change is so great it is necessary to change a large number of capacitors in each of the frequency sensitive sections of the transmitter and receiver.

AMATEUR TV

John-AC6TS

The club is still looking for someone who would like to take on the project of installing our remote video camera at the repeater site.

Please note that I have changed my call from **KD6TLF** to **AC6TS** (*amateur camera 6 television screens*) and that I'm changing BBS's from Temecula to **PALBBS** in Vista which is presently more reliable from the Escondido area and is on 146.7(-), the club's packet duplex repeater.

Stan-W9FQN will have more ATV information sheets at the next meeting. Be sure to stop and pick up one. In many cases, all it takes is a converter, some sort of antenna, and a TV set to receive. Contact me for details.

PACKET

Ted-KD6AKT

I will again be at meetings with a portable packet station. Drop into the **RACES/ARES** room across from the meeting room before and after the meeting for a demonstration and the answering questions.

Don't forget the Tuesday evening packet net on 146.73(-) at 9pm.

PROJECTS

PARC has a large number of projects that take varying degrees of electronic knowledge: none to quite a bit. If you can help us with any project, please contact a Board Member.

PARC TRAILER

The PARC emergency trailer has been moved to **Jo-KB6NMK** and **A.J.-KB6NML's** QTH for specific work to be done: another operating table and minor floor work.

Stan-W9FQN has removed most of the old paint from the outside and the old linoleum squares from the floor.

We need members who can devote a few hours to the following tasks:

Floor: install carpet (Estimated Time To

Finish 2-3 hours); install plywood (ETTF 1-2hrs).

Paint Tables(2): (ETTF 1-2hrs).

Putty: inside holes (ETTF 1-2hrs).

Paint Inside: putty holes, paint white (ETTF: 2-3 hours).

Windows: clean & caulk (ETTF: 2hrs).

Door Locks: install two places (ETTF: 2hrs).

Furnace: re-install copper line, check out (ETTF: 2hrs).

Antennas: install several (ETTF: 2-3hrs).

AC Electrical: for several operating positions (ETTF: 3-4 hours).

Woodworking: various (ETTF: 2-5 hours, as much as you want).

Lighting: install at two desks (ETTC: 1-2hrs).

Porta-pottie: repair (ETTF: 1-2hrs). Requires some gluing at a rubber joint.

Polishing: cleaning and polishing outside aluminum sides before painting (ETTF 5-8 people for 2-3hrs/ea.). It would be nice to have electric drills with pads.

Outside painting: tubular tower and several small items need a coat of paint (ETTF: 1-2hrs).

Your help is needed! Pick something(s) you can do and call Jo or A.J. to schedule a mini-work party of your own at their QTH in Escondido.

This trailer will be used for emergencies, drills, contests by club members, club members who have antenna restrictions, and the June Field Day each year. Those who put in "work" time get first call on its use.

We hope that members will help with the refurbishing of this emergency unit and also use it during special open houses which the club will have from time to time.

Antennas will be set up and members who have antenna restrictions will be able to bring their own rigs to this portable unit for weekend operations. Antennas will be furnished (beams and dipoles) and we might even have a rig or two available for you to use.

We might even try to obtain WAS and DXCC under the W6NWG call.

|||||



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!

Radio systems installation, repair and removal, and interference resolution.

Edward Ross, N6GZI
(619)542-1405

Antenna

Specialties

A SPECIAL WELCOME TO:

Mark-KF6CCH who passed the FCC test here in the USA for a USA license but really holds a Mexican XE call. He lives in Mexico City and graduated from college in the area of Mechanical and Electrical engineering.

Mark will be visiting here in the San Diego area for the next 4-5 months. He has offered to work at the club's repeater site and on weekends to help out any club members who have antenna or feedline problems. He is especially interested in cubical quads. Give him a call at 223-5535.

FOR SAIL

Phone or send ads to your editor: mail, packet, or E-mail before the 20th of each month. Copy your ads after the form used here in. Personal equipment ads are free to members.

Commercial Ads: \$2/column inch/mo. We will "squash" your copy to the number of inches bought. Ads billed Feb., May, Aug., & Nov.

Kevin Sanders, KN6FQ, in Escondido is now handling PARC's extensive tube bank. Contact Kevin at 432-8381 for availability & prices.

NEW ADS.

(04-20)Heathkit Station - SB100 Xcvr, 80-10 meters; extra Receiver, SB300; Power supply; SWR bridge; phone patch. Make offer: Lou WB6CQA 726-3572.

(04-18)Kenwood TS-830s xcvr ex cond \$500 OBO: Tom KE6HRL 741-1364 Esc.

(04-11)"Health Spa" (\$1,100 value) (sell or trade) 8' portable octagon fiber glass seats with jets/spray, 110V, heater cover & gazebo lattice for an HF Ham mobile linear or etc.: Larry W7HKI 439-5855 Ocsd.

(04-09)Tower 54' crankup + new control motor + HiGain control Unit + Hi-Gain Quad all for 4500 cash: Bob KO6EM 728-4835.

(04-02) Kenwoods a)930 w/tuner \$950, b)220 Scope \$200, c)930 spkr, c)TS130 w/war w/b \$350, d)TS130 tuner w/b \$75, e)2m/241 A/B \$300, f)7850 mobile 50w w/b \$300; Yaesu FL2100 b/ex tubes \$400; RTTY Commodore cpl AEA monitor \$300 & 1540 printer; MFJ 9410 tuner (E) \$100: Larry W7HKI 439-5855 Ocsd.

(04-02) PK64 Pkt w/commodore keyboard \$100; **Bench**er key w/tet keyer \$100: Larry W7HKI 439-5855 Ocsd.

(03-20) 62yrs of QST, all or nothing: WaltH.-W6KRQ 722-3248.

(02-20) Okidata 192+ near letter quality dot matrix printer, stand, box of paper, parallel cable, manuals, IBM compatible \$49; Howard WB6AKM 453-3156 nites or 642-2400, ext 1201 days SD.

(1-23) Kenwood TS-520 xcvr ex/cond w/Shure desk mic: Jo KB6NMK 741-2560 Esc.

(1-18) Kenwood MP-100 mounting bracket for TS-130: Jo KB6NMK 741-2560 Esc.

(1-4) Hamond Organ with course was \$2,300 now \$400 or trade for HF/UHF equip: Steve W2MRM 451-5690 R. Bernardo.

(1-4) Kenwood TS-440s/AT; Kenwood Pwr Sup PS-50; Hustler Ant. mount & mast with various ant. tips & coils: Joe N6RVO 433-6885.

Please let me know if you buy or sell so I can take out the ad! -Ed.

WANTED: A few good men/women.

(4-14) need information of the modification of a communications monitor, CE-3, for "opening" up the 70cm band & need cover door for the unit: Mike AB6QT 742-1573 Escondido.

(2-22) 1992 ARRL Handbook, any



condx, for library: Duane AA6EE 789-3674 Ramona.

(2-16) Lost manual for TH28A HT in move de Texas. Need copy. Pat KC5NJU 743-6592 Esc (or DATEL Esc/SM).

(1-26) Help with a TH-28A HT. Call Rick and Lani 489-1126 Esc.

(1-26) HyGain Telex HAM IV Rotor: Troy KE6ASO 287-3910 SD.

(1-26) Anyone interested in Astronomy or telescopes of any kind for general interest activities and cooperation up to projects and observatories: David L. White, PIRA, 724-5671.

(1-24) Ranger II, E.E. 200V, and other old tube gear especially receivers for serious educational station: David White 7245671 Vista.

(1-12) FEX767-2 & FEX767-6m modules new/used for Yaesu FT-767GX: James N8NHY 967-6313 leave msg.

Fallbrook High School will take any and all donations of amateur radio equipment. We need radios, a Tri-band beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

INTERNET INFORMATION

Internet addresses sometimes are a pain to remember by others ..especially in emergencies or when they are in a great hurry.

Paul-KB5MU, PARC's packet guru has suggested that we make ourselves available of a service offered by AMSAT. You register your regular address with them and they assign you an alias which is easy for all to remember ..at least for hams it is. For example
 => ka6fps@sdcoe.k12.ca.us can be
 => ka6fps@amsat.org and
 => w9fqm@aol.com can be
 => w9fqm@amsat.org
 => or w9fqm@amsat.org could be
 ka6fps@sdcoe.k12.ca.us!

This would allow W9FQN to receive all e-mail thru KA6FPS's mail drop with the SDCo. schools.

All you have to remember is **call-sign@amsat.org** which is a lot easier

than some strange address .. there are so many strange ones out there these days ...and they seem to get changed from time to time.

This in no way affects your regular e-mail address. You can now get mail thru two addresses!

The following is a step-by-step method for registering your new alias as described by PARC's Web page provider, Frank-KE6WOE:

"If you have a difficult to remember internet e-mail address, you may want to take advantage of AMSAT's free message re-mailing service for amateur radio operators.

Here's the way it works: you register with AMSAT by sending an e-mail message to -

listserv@amsat.org
 and request their re-mail service. For example, "Request you add my callsign to AMSAT's re-mail service. My callsign is KE6WOE, and my correct e-mail address is -

frankl@electriciti.com".

That's all there is to it! It takes a day or two for confirmation, and then your easy-to-remember e-mail address is **yourcall@amsat.org**, where *yourcall* is your amateur callsign. Messages sent this way go first to the AMSAT host (at UCSD in San Diego, by the way), where it is then forwarded to your real e-mail address. <Frank>"

Internet update of addresses:

(pse check to see they are listed properly)
 KF6AZU, barryh@rmp.com; BarryH
 KN6BN, ThomasPat@aol.com; TomP
 WD6FWE, wd6fwe@aol.com; DonJ
 KD6EBY, dat@gerry.palomar.caltech.edu;
 DavidT
 AC6GV, suggs@alumni.caltech.edu; BrianS
 AH6IR, RLWMAW@aol.com; Rick
 AB6IU, rmirdas@cts.com; RichardM
 KD6JXY, kd6jxy@vlyoak.resun.com; PaulM
 WB6MEL, jldhamm@inetworld.net; JohnH
 N8NHY, FNBCO3A@prodigy.com; JamesP
 WB6PKK, mmunster@qualcomm.com;
 MarvinM
 N6QDB, kalari@msn.com; SusanR
 AB6QT, mwd@gerry.palomar.caltech.edu;
 MikeD
 WB9RKN, davis@qualcomm.com; RoyD
 WA6UTQ, wa6utq@connectnet.com; LarryR
 KC6WAN, redpowell@aol.com; RalphP
 KE6WEO, joe@sd.inri.com; JoeC
 WA6YOO, jcarter@mailhost2.csusm.edu; Har-
 ryH
 KC6YSO, daved@cts.com; DavidD
 KE6ZXQ, egenest@connect.com; EdG

Please send additions/corrections and AMSAT re-mail changes to your editor via e-mail.

The following have an address through AMSAT of the type:

(YOURCALL@amsat.org):
 KA6FPS-BarbaraR, W9FQN-StanR, KB5MU-PaulW,
 N6QDB-SusanR, KE6WOE-FrankL, & N6YZZ-
 LindaR. (how about your call?)

If all PARC members with e-mail addresses registered with **amsat.org**, we would only need to publish **callsigns and names**.

And then there is PARC's World Wide Web maintained by Frank-KE6WOE at:

(<http://www.electriciti.com/parc>)

Get a charge out of electriciti!

NEWS/UNCLASSIFIED/etc

Please send "newsworthy" items 2-UR Editor via PALBBS, Letters, e-mail, or notes at club meetings.

Larry-WA6HKL a former SCOPE advertiser, has just finished a 4-month stay in the hospital (various reasons) and is now back home recuperating. His nurse has been his wife, Maxine-W7HKL. Larry is one of the "real old timers" in the area of transceiver production in the SDCo. area. (good seeing you at the last meeting -Ed)

THANKS TO:

Frank-KE6WOE for obtaining from the ARRL the "ARRL clip art" which is used in the SCOPE this issue.

MEETING SELLING POLICY

At the April Board meeting the Board decided that in the future commercial vendors would not be allowed to sell their wares without prior board approval at club meetings or other club functions.

This does not affect members bringing in a few items of their own personal equipment for sale at the club's 10% table run by John-WB6IQS.

MISC.

Rich Cook: "Programming today is a race between software engineers striving to build bigger and better idiot-proof programs, and the Universe trying to produce bigger and better idiots. So far, the Universe is winning."

LETTERS TO THE EDITOR

Your editor and the Board reserve the right to accept and edit all letters without changing the intent of the letter. Letters are usually printed on a "first in/first out" basis -Ed.

Europe

Linda-N6YZZ

I decided I wanted to tour Europe (after college graduation) and spend as little money as possible (*I had very little money*). My goal was to get through Europe on \$25 a day (minus gifts for myself and friends,) and I did it.

During my last semester of college I baby sat and had part time jobs. I started researching places I wanted to go and things I wanted to do. I found a good deal on a plane ticket and my next goal was to find places to stay. I started writing friends in Europe telling them my itinerary and when I wanted to visit.

I had many options but there were places I wanted to visit and I had no where to stay. So I took advantage of the ARRL list of HAM operators in Europe who open their homes to travelling ham operators. I started writing Hams who lived in key places that I wanted to visit. I wrote at least 25 letters and got responses from about 20 people who said they'd be home to receive my girl friend and I or sent their regrets that they would be out of town or unable to give us lodging.

The responses were incredible. One lady offered her apartment even though she wouldn't be there to host us. It was hard to believe how many people were so excited to have us stay with them and offered to pick us up. I wrote responses to those that I scheduled in our itinerary and in August my best friend and I were off.

I started in Sweden and visited the famous Water festival, then south to Copenhagen to see the Carlsberg brewery and the famous little mermaid.

Next it was the overnight train to Berlin; in the morning we showed up at the first ham's house. This man's name is **Hans**, and the sweetest man ever. The city is not a beautiful city but I loved it because Hans showed us everything with a personal history lesson behind it. I can't imagine being so



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fascinated with this city without him. He accommodated us in every way possible and answered all of our zillions of questions about the wall and it's falling.

We left Berlin and hit the beautiful city of Prague where friends showed us the typical life there. The next country was Austria where we had a hostile in Vienna and then had a day trip to Saltzberg on the way to Munich to meet up with another Ham operator who picked us up at the train station. We had decided to spend four days there and in the meantime, we were introduced to more Hams who went way out of their way for us. We had a day excursion to Norshveinstein castle (Disney modeled after this one.) It was incredible!

We then saw King Louie's other castle and were taken to a quiet monastery and next to it we tried the blood sausage and the typical beer. After Germany we were off to the Rhine falls in Switzerland and the

main shopping row in Zurich. Then it was hostile time again in Venice, Milan and Florence. Unfortunately I couldn't contact Hams there and we were on our own for seven days.

At the end we were ready to be pampered again; life was not easy when there wasn't anyone to show us around, pick us up, feed us or to communicate for us. It made all the difference sight seeing also if someone would go to the trouble of showing us around or telling us where to go so we didn't have to figure out the map for ourselves.

From Italy, it took 24 hours on the over night train to Barcelona and a little cheap red wine to sleep through the trip. Barcelona and San Sebastian were fantastic and so so beautiful.

Then after nine days we hit the five hour speed train to Paris to meet another girlfriend. Those French live an expensive life and aren't overly friendly to us Americans but I had an incredible time staying at a friend's apt. and not having to spend money eating out because after my \$5 Sprite drink, I decided it wasn't worth it.

So far I had not deprived myself of anything and I was definitely eating my way through Europe and enjoying all the cultural differences.

After Paris we were off to Den Haag, Holland, and were picked up by Hams **Hans** and **Rita**. These wonderful people were driving us to their house and as we pulled up, I thought, "Oh, how nice, they're taking us sightseeing already," since we were looking at the International Peace Palace. The reality was, **they lived in it** and we got the royal treatment with a personal tour of every room with excellent lodging in a fabulous place.

We also couldn't miss famous Amsterdam and at the end of our stay there, they dropped us off at the ferry boat and we were on the high seas (no joke) to London.

We stayed with several Hams outside the city who were so kind. My only regret was that it was our last stop so we showed up late and didn't get enough time to spend with them in between our daily outings to the theatre, Soho, Buckingham palace ...etc.

All in all I would have to admit that I had the best eight week experience ever



because my friend and I were enjoying everything, first hand.

If you think you can see everything you want to see on your own, you're fooling yourself because it really is physically draining and a nightmare to motivate yourself to see "another church" because it might probably look like every other one you saw before. The one week in Italy without friends to show us around was long enough.

I found the people in Europe to be so wonderful, generous, and excited to show off their country. I will admit that it is a great benefit to know that you will be fed and showered daily, and to know that regardless of the time your train comes in, you will for sure have a place to stay and no one is telling you that there is no room. The little extras are when your hosts want to show you the highlights of each place and give you gifts or memorabilia of their country ...it was definitely a memorable experience.

I recommend that all young people with Ham licenses going to Europe should really plan your time, your money, and experience the Hams there, because even though they are strangers, they are part of the same hobby and **wonderful people** who can make your experience all that more enriching and enjoyable. I now have friends all over Europe.

It is possible to do Europe on \$25 a day. I am proof of it!

(Linda-N6YZZ is the daughter of W9FQN and KA6FPS. She wrote this in April while home from her present job in Mexico City where she teaches English in the mornings to PEMEX executives and from 4-7pm works for an executive in the area of finance ..and that's another Ham networking story sometime! -Ed).

PARC Nets

The Palomar ARC provides repeater net time to responsible organizations requesting the use of our repeaters: ARES, RACES, MARA, Packet, Microwave, Hiking, Spanish, etc. Their activities take place outside of PARC and are not a part of the PARC organization.

PARC requires only that the net controls be club members and that certain basic items must appear in the

reading of their pre-ambls. These requirements tend to assure us that the repeaters are being used responsibly and that net controls have access to the most recent information published in the SCOPE concerning the use of our repeaters.

PARC only provides repeater time for other groups and in many cases has no other connection with them. In the same way, the SCOPE provides space for announcements for other groups such as ARES, RACES, etc.

HAM HELP NET: it appears as though the change from Thursday at 8:15pm on 147.075 to Thursday at 9pm on 146.730 has been made without problems. If you have any ham related problems, including computers, be sure to bring your problem to the HAM HELP net.

VOICE PACKET NET: Paul-KB5MU has been doing the Tuesday evening packet net since its inception in October of 1985 and now feels that he would like to move on to other things with May probably being his last month as the only net control.

Paul was instrumental in getting PARC's 145.05 packet digi (now a NODE) on the air and had a lot to do with its connection to the San Diego Co. METROLINK backbone on 70cm.

The following club members have been suggested as possible net controls beginning in June: **Ted-KD6AKT** (VHF Pkt Dxing), **Rod-AC6V** (accessing BBS's and Web sites), **Frank-KE6WOE** (emergency communications and World Wide Web), **Norbert-KJ6ZD** (operates PALBBS HF/VHF/UHF), **Joe-N6YMD** (Aficionado Extrodinair), ...and others we hope will volunteer to help out. These club members cover a wide spectrum of knowledge and would be able to answer most of the questions being asked.

If you feel that there is still a reason for the net and you are interested in helping to keep the net on the air, contact W9FQN who will serve as the net coordinator until a decision is made on its future. It might be that we would want to consider opening it up to questions on the World Wide Web.

HIKER's NET Glen-KE6ZLY

Saturday, April 13, the Friday 9pm hikers net members spent the day hiking in the desert about 6mi south of scissors crossing (S2/78) on S2. Their first hike was up to the remains of an old house on Ghost Mountain. Their second hike was to see the old Indian petrograph paintings. A good time was had by the following participants: Irvin-WB7ATT, Eric-KA6AUV, Bill-KF6AVG, Matt-KF6BRC (+5), Tom-KJ6NA, Barb-KA6FPS, Stan-W9FQN, Jo-KB6NMK, Bob-WA6QQQ, Glenn-KE6ZLY, and providing communications was Blackie-KE6IQQ with several others helping. Roland-KE6NPN who was in the area on a Mountain Rescue drill dropped in Friday evening for a short time.

Participants ages ran from 66 down to ten years old.

The next hike is scheduled for Saturday, the 11th of May, and will be to Monument Peak in SE SDCo. Come join us! More information will be given on the Friday evening Hiker's nets at 9pm on 146.730.

The hiking group has made application for 12 hikers to take a Mt. Whitney hike in August. They have applied for August 16th through 19th for 12 hikers (a possibility of more slots being opened later).

The hikers would camp the first night, hike to a base camp on Saturday, hit the top (14,000+ ft.) Sunday, and possibly make it back down the same day. Monday was cleared in case it took longer than we thought. Wonder what repeaters we will be able to access!

NOTICE: Duane-WB6R, please come to the next meeting. We have your hat!

SWAP MEETS

The 1st Saturday of each month there is an amateur radio swapmeet held at the Santee outdoor movie theater in Santee. While the amount of amateur gear being sold seems to be getting smaller each year, the amount of computer related items is increasing.

One of the easiest ways of getting



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Drop in to see our
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azines, ARRL books,
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Directions: On I-15, take Clairemont Mesa Blvd. off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and HRO sign. Be sure to see our equipment in action on real antennas.

there is to take road 52 east to Santee, through town to Woodside (a frontage road to Rd67), and the theater will be on the left. Keep north of Rd67 at all times.

Your editor would welcome descriptions of the other swapmeets in Southern California, how to get there, and what type of materials are being sold. It would also be nice to publish all of the swapnets with their frequencies and times.

Possibly in the future PARC could set aside a time to visit the LA area swapmeets and we could form a caravan with ride sharing. Any interest?

Santa Maria Radio Swapfest

Sunday, June 16, the Satellite ARC will hold their annual swapfest which they claim is the largest on the Central Coast. There are over \$1,500 in prizes. Check with W9FQN at the next meeting for registration forms and additional information.

SANDARC

San Diego County Amateur Radio Council is a group of clubs banded together to promote amateur radio in SDCo. The last listing of member clubs was:

ARC of El Cajon, Challenger ARC, Convair ARC, Escondido ARS, North Shores ARC, Palomar ARC Inc., Q.C.W.A., ROARS, San Diego ARC, San Diego DX

Club, SANDPAC, SANDRA Inc., SOBARS, and 220 Club of San Diego.

SANDARC has been responsible for putting on the ARRL Southwest Division Convention in San Diego.

SIX METERS

Those of you buying new HF rigs might want to consider one that also has 50MHz as well as the 80-10m ham bands. The sunspot activity is on the increase and conditions on 6m can do nothing but improve. Besides, you can use 6m FM to access PARC's 6m repeater.

It should be possible to contact other stations throughout the USA through the 6m repeater on Palomar Mt. It might be interesting to link a 10m repeater to our 6m repeater. Wonder what those cavities would look like? The 6m cavities built by Bill-KC6YOX were 6' tall!

OTHER FREQUENCIES

The following frequencies might be of interest to club members:

145.220- Up I-5/15 past northern Im-

migration check points, PL103.5

145.790+ APRS Pkt position locator

146.175+ (107.2Hz) Fallbrook

146.700- PALBBS Pkt.

147.090+ Coastal SD to LA

147.645- Coastal SD to LA

If you have suggestions for others, please contact your editor. It is possi-

ble to run autopatches from Palm Springs on our 146.73 and 147.13 repeaters if your car is facing towards the west and you are a mile or more from the mountains.

FCC

The FCC's home page for Compliance and Information is:

<http://www.fcc.gov/Bureaus/Compliance/WWW>

It covers interference to TVs, radios, stereos, telephones, and televisions. They also have an *Interference Handbook* which includes a list of manufacturers who provide additional information.

HOBBY SHOW '96

On Saturday April 20th, Stan-W9FQN, at the direction of the Board, attended the Hobby show at the Antique Gas and Steam Museum located in Vista.

Stan handed out PARC brochures to interested observers. There was a Motor Home Rally with about 100 vehicles and 30 of them were amateurs.

There will be an antique engine and tractor show in October and the club might want to take there refurbished trailer there for demonstrations on amateur radio.

FIELD DAY IS

COMING!



| | |
|--|--------------------|
| Membership Application | Dues \$12 |
| Amateur | (circle) |
| Call | Family \$21 |
| Member of ARES RACES EVAC | |
| First Name | |
| Last Name | |
| Street Address | |
| City | |
| State+Zip | |
| Home Phone | |
| Date Ham License Expires | |
| License Class N T T+ G A E (circle) | |
| Family Membership (name + call) | |
| Sponsor's Call (not required) | |
| Email Adr: | (05-96) |

Mail this form with your check to **PARC, P.O.Box 73, Vista, CA 92085-0073** or to our membership chairman at club meetings. We prefer checks to cash. Then you have a record.

Dues are \$12/yr. including \$3 for SCOPE, or \$21/yr for a family all living at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call, and complete address are required. Telephone number is required but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet, send a **Self-Addressed-Stamped-Envelope (SASE)** with your phone number on the **inside flap** with your application or the receipt of the next newsletter mailed the **last week of each month** will be your only notification of membership.

PARC NETS (15)

All 146.730 8:00pm Traffic Net (SDCTN)

All 147.130 10+ pm King Henry's Net

(open to all facetious amateurs)

Sun. 146.730 8:30am AREmergency Service

Sun. 146.730 10:00pm Sailor's Net

Sun. 147.075 8:45pm MARA Net

Sun. 146.730 9:00pm This Wk in SDCo.

Mo. 147.130 6:45pm EVAC (2nd/4th)

M-F 147.075 7:00pm Morse Code Net

Mo. 146.730 7:15pm RACES sub Net

Mo. 146.730 9:00pm Microwave Net

Tue. 146.730 9:00pm Voice Packet Net

We. 146.730 9:00pm Spanish (2nd/4th)

Thu. 146.730 7:00pm Young People's Net

Thu. 146.730 9:00pm Ham Help Net

(electronics, computers, antennas, license theory, etc.)

Fri. 146.730 9:00pm Hiker's Net

Apr. SCOPE helpers: Ralph-KC6WAN, W6TFB-Lloyd & Lisbeth, WA6UTQ-Larry, N6WQR-Bernice, WA6YOO-Harry, N6TFB- Jerry, Art & Anita-KB6YHZ/YHY, Bernice-N6WQR, Ellen-N6UWW, and Stan-W9FQN.

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OUR CLUB. DO YOU
KEEP THE BLOOD
FLOWING?**

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AUTOPATCHES, PALOMAR
MOUNTAIN REPEATERS (W6NWG)**
PARC Trustee of W6NWG: AB6QT
***52.680- W6NWG, -0.5 MHz**
Autopatches(4): 146.730-, *147.075+
***147.130+, *449.425-**
PKT: 145.050s PALMAR-1 Open
(linked PARC 9600 METROLINK)
146.700- Duplex, BBS/EMG use
145.050/146.7- (W6NWG/PALBBS)
ATV: 915 wbfm, 919AM, 2441.25 wbfm
Intercom: 144.39, PL 79.7 nbfm
OUT: 1241.25 MHz AM
OTHER: *224.38- & *224.94- KK6KD
***224.90-WD6HFD(220Club)**
448.00- WB6FMT(123.0PL)
***146.175+ WA6IPD, Falbrk**
*** = PL of 107.2 Hz**

PARC BOARD

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RptT: John Kuivinen, WB6IQS 727.3876

SCOPE: Stan Rohrer, W9FQN, 749.0276

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Mem: Mike Doyle, AB6QT, 742.1573

Mem: Marv Munster, WB6PKK 941.9174

VE Program: Rusty, AA6OM 747.5872

(2nd Sat.ea.mo. Carlsbad Safety Center)

ATV/Edu: Bill, KB6MCU, 582.2313

Editor: Stan Rohrer, W9FQN, 749.0276

30311 Cir R Ln, Valley Ctr CA 92082

PALBBS & w9fqm@amsat.org

or ka6fps@sdcoe.k12.ca.us

PALBBS: Norbert, KJ6ZD, 630.5538

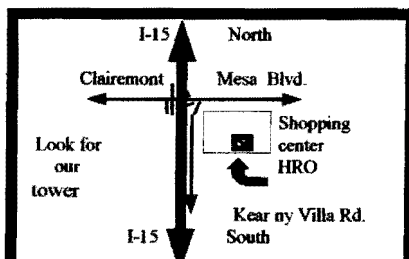
145.050 PktSimplex, 146.700-PktDuplex

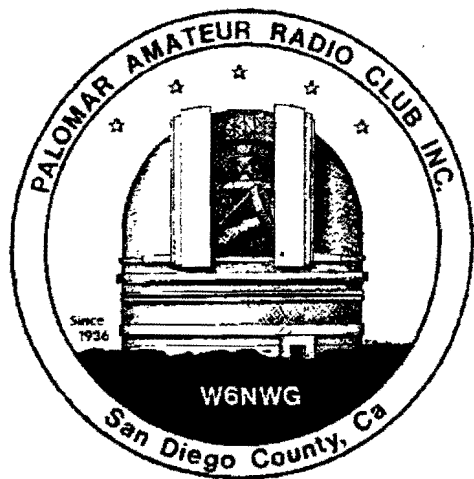
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Scope

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June *** 1996 ***** 60 Years Old**
Dues \$12, Volume XXII, Number 6
Coffee 7pm, Mtg. 7:30pm @ Carlsbad Safety Center, Palomar Airport Rd. to N. on Camino Real (S11), east on Faraday .25mi, left to CSC.
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4-Patches 147.075+, 147.130+, 449.425-
Pkt, ATV, 220, PALBBS & w6nwg@amsat.org

NEWS WORTHY (see page)

- 2-Board, Members, Treas, LastMtg, Thanks, AGOGO, Editor
- 3-President's remarks, Code, SK
- 4-Field Day Contacts
- 5-For Sale, Project Help Needed
- 6-Home Helpers, WkParty, 146.73
- 7-Tech/Ops, Patch, EVAC, VE, wpx
- 8-VOCAP, Hikers, PALBBS settings
- 9-EdLtrs(N6TEP/WA1CSO), GPS,amsat
- 10-SwapNet, DelMarFair, Young People
- 11-Bus.Card offer, BBBREAK, .73 info
- 12-Application, Officers, Board, etc.

June Mtg. Program

Sybil Allbright, W6GIC

The program for June will be on **Field Day** activities and assorted goodies..

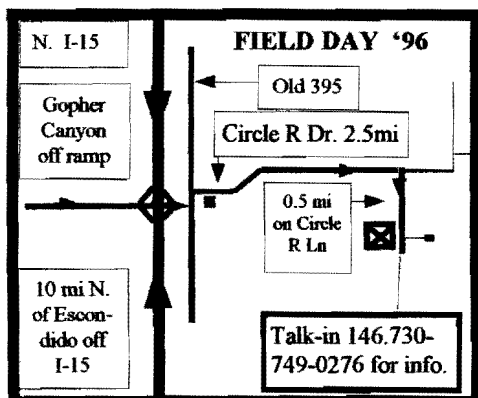
Show and Tell: if you have anything of interest, bring it in and tell me how much time you need **before** the meeting starts (*limit 2 min.*).

The club meeting starts at 7:30pm but many come at 7pm to talk to friends, sample the goodies and coffee, join in a seminar, get a good seat, or be first to see the small items of equipment being brought in for the club's sale table where the club takes 10% of the selling price.

Check 146.730- around 6pm for where some members are eating dinner before the meeting.

Please come early and help set up chairs ...and **STAY** a few minutes to help put them away. Your help is greatly appreciated!

This is a great time to bring in your SHOW and TELL items!
See you there.



Field Day "Site" Rules

These are the "usual" rules observed by the club while at the Valley Center Field Day site:

- ♦ **Park** out of road way. Do not block traffic at any time. If possible, **back** into assigned parking areas.
- ♦ Keep all **noise** to a minimum, especially at night.
- ♦ Use approved **bathrooms** at the site: motor homes, trailers, etc. There is one in a nearby garage with shower that is **always** available.
- ♦ Always talk to neighbors **politely** and invite them to observe the Field Day emergency exercise.
- ♦ No **towers** are to be erected except in the presence of W9FQN who is PARC's representative in charge of the site.
- ♦ No **stakes** are to be driven into the ground except in the presence of W9FQN (*water lines -Ed*).
- ♦ **Generator** exhausts must be pointed away from any houses.
- ♦ Only **non-alcoholic** beverages can be consumed on the site due to safety and insurance regulations.

"You're 5 by 9
OM...Now will
you please
repeat UR
CALL!!!"
"Good Luck in
the Contest"

CQ CQ CQ
Field Day
this is
Whisky 6
Nothin
Works
Good
W6NWG
CQ
Field Day

Calendar June '96

- 01 Santee Swap Meet (*drive in theater*)
- 05 Club Mtg. Carlsbad Safety Ctr, 7:30p
- 08 PARC VE Testing Carlsbad Saf.Ctr, 10a
- 09 Repeater Site Work Party 10am P.Mt.
- 13 PARC BoardMtg. W9FQN QTH, 7pm

FIELD DAY

- 21 FD Setup at Site starting 1pm Friday
- 22 Field Day starts Saturday at 11am
- 23 Field Day ends Sunday at 11am, then clean up site 11am to 3pm

Field Day Fun

Wayne-WD6AHX (Equipment)
Frank-KE6WOE (Organization)
ke6woe@amsat.org/PALBBS

Field Day is just around the corner (**June 22 & 23**) and will be here before we know it. Sponsored by ARRL, the annual Field Day is an exercise in establishing emergency communications in the "field" (no commercial power source), and working as many stations as possible in a 24 hour period on any or all amateur bands (except 10, 18 & 24 MHz).

The club is planning another **5A** effort this year (5 different stations on the air simultaneously + Packet, VHF/UHF and a Satellite Station), and there are still operator and general assistance slots to fill. It's a great opportunity to practice your skills or learn how it's done from some of the club's experienced operators, and, at the same time, have a lot of fun.

If you are able to support the club on

SK SK SK K SK SK SK SK SK SK

We regret to announce the passing of one of PARC's 1936 founding fathers:

Walt Huckabay, W6JRQ

Walt had been ill for some time and regretted missing the Club's 60th anniversary. He will be missed by all the amateur community who knew him.

SK SK SK SK K SK SK SK SK SK



site, contact Frank, KE6WOE at 941-9174 (Voice), 941-2070 (Fax) or email frankl@electriciti.com and sign up today. Check in with the **Field Day Information Net, Sunday evenings at 2000, on 147.075(+)** for the latest information. The club needs YOUR support. Stop by the PARC web page at <http://www.electriciti.com/parc> and check out the latest under the "DX Corner" Section, then download your copy of the Field Day rules from ARRL (under "Club News"). 73 de KE6WOE"

+++++

Last Club Meeting

The GPS program by one of the instructors at the Naval Training Center in San Diego, was most interesting and well received with pertinent comments about the 36 birds from which Latitude, Longitude, and Altitude come from.

Attendance was 131 with 116 members and 15 guests.

Show & Tell had many club members with GPS units and making short comments about their operation.

Paul-KO6AM and Larry-KO6SM were on the video camera and many thanks to those who helped take down the chairs (*wish we could get all your names and calls.*) Sybil-W6GIC and Bill-KB6MCU are arriving early to set up the chairs all by themselves.

+++++

Board Meeting (all welcome)

The April Board meeting was at the QTH of Stan-W9FQN and Barbara-KA6FPS.

BOARD: KC6UQH, W6GIC, KC6YSO, KB6NMK, WB6IQS, W9FQN, KC6WAN, AB6QT, and WB6PKK. **(present/absent)**

OTHERS:

KE6WOE (Web Site & Field Day)

The 7:00 pm meeting started at 7:07 and ended at 9:50 pm.

SECONDS (minutes?)

The following items were *DISCUSSED* and/or **APPROVED**; ac-

cepted **resignation of Shawna-KE6ZXP and appointing Jo Ashley as new treasurer**; advertisements; SCOPE items; **W9FQN \$170 control units and small parts**; programs; TASMA-SCRUBA coordinations; **small ads; free ads**; membership 853; **Barbara-KA6FPS appointed Del Mar Fair chairman**; patch abuse problems; club security of private information; tower painting; **CW trial period 147.075**; **WB6IQS \$100 pd for pwr supplies and two 70cm Motorola units**; Field Day control; PARC trailer; **\$25 road repair**; new antennas; SANDARC problems; etc. and next **Board Mtg. at W9FQN QTH.**

+++++

Treasurer \$\$.\$\$\$

Jo Ashley, KB6NMK

BALANCE SHEET for April:

| | | |
|-----------------------|--|------------------|
| \$8,368 Equip Reserve | | Cking \$ 8,996 |
| \$5,098 Operations. | | CD's \$ 4,347(2) |
| | | Cash \$ 123 |
| \$13,466 Total | | Total \$13,466 |

Another \$2,000 CD bought in April (6mo. reflected above) and another one to be bought in May. The CD's should come due near the time we have to pay for the club's insurance policies for equipment and liability.

Operations are to pay for the newsletter and basic club operations in the future for the duration of the member's dues. Some of the \$5k are dues for several years in the future.

Equipment reserve is money budgeted for new equipment and replacement of old equipment: transceivers, antennas, buildings, power supplies, control equipment, etc.

Some of the antennas we need to add or replace in the near future cost about \$600 each.

+++++

Membership Info/etc.

Ralph Powell, ke6wan@amsat.org

If you received this Scope, you're one of us. We do not otherwise inform new members. For autopatch information send us a SASE (Self Addressed Stamped Envelope). Our address is on

the backside of this newsletter.

July is coming up and that's the end of our "membership year." The dues of 264 members are coming due at the end of that month. Check your label to see when your dues expire. The 4 digit number on the very top line of the label gives you that information. The first two digits tell you the year and the 3rd & 4th tell you the month. 9607 means your last Scope will be mailed at the end of July. Have a look. You might be one of the 264. If you would like to send us enough to cover 2 or 3 years, it would be appreciated.

+++++

AGOGO

(history)

K6HAV/K16JM/W9FQN

(06-86) ...membership 320+
..thinking about retiring the mortgage on the repeater site ..2nd meeting at Lincoln Middle School Vista .. FD info ..Channel 8 May program by Gregg Rawdin ..1st VE session at Joslyn Sr.Ctr. in San Marcos ...

(06-91) ...Brian KF6BL talked on Saudi Arabia action ..attendance 88 ..Jerry-WB6FMT to head up new autopatch system ..buying 12 VHF xcvs for \$590 ..Tony KA6TNI donates 21' 16el 2m beam ..FD info ..Phil-WF6L's Potter Jr.High makes contact with astronaut ..2-14-91 all Tech licenses assumed to be NO CODE ..new Club ZIP code of 92085-1603 (now 0073 -Ed) ..9 nets listed ..membership 421 ...

(06-95) ...attendance 140 ..Kerry-N6IZW talked on Microwave in May ..new building committee appointed ..FD info ...

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Many Thanks To:

Goodie Table: Art and Anita Nye, KB6YHZ and KB6YHY.

Goodies: Bill-KM6PY, Paul-N6ISC, George-K6YGK, Ron-KM6MW, Pat-KA6PSG, Norm-N6QQF, Tuck-KC6ZEC, Jerry-N6TCB, and Lief-KE6BZP.

Frank-KE6WOE for taking the Sunday morning ARES net for the month of

Support Field Day 1996!

April and to Bob-KA6NZL for the donation of three beautiful Motorola repeater racks.

+++++

President's Wave Length

Art McBride, KC6UQH

It is with regret that we accepted the resignation of Shanna, KE6ZXP as Treasurer. Jo, KB6NMK, has agreed to take the Treasurer's job and the board ratified her Appointment as Treasurer at our May Board Meeting. Jo has been an active member and former Membership Chairwomen of PARC. Jo is an accomplished T Hunter, has won several T-Hunts on a Local and State Level, she is very active in RACES, ARES, Red Flag, and other Amateur Radio activities. Jo designed our current Membership Brochure, served on our Election Nominating Committee, Helped with Silent Key Estates, participated in all Field Days I can remember, and is a Five Star Member of PARC. I am glad to have Jo back on the PARC Board and I am certain she will be an outstanding Treasurer.

I have Appointed Frank, KE6WOE, as Public Relations Chairman to replace Benton, KK6LX, who became a Silent Key earlier this Year. Frank along with Ellen, N6UWW, will coordinate the Public Affairs of PARC. Frank has done an excellent job with PARC Web Page and I am sure he will make sure that PARC activities, and Amateur Radio will be seen in the best possible light by the citizens of San Diego County.

To acquaint the General Public with Amateur Radio every year SANDARC has a booth at the Del Far Fair. PARC has signed up for July 1 and 2 to man the booth from 10:00 A.M. to 10:00 P.M. for SANDARC. I have appointed Barbara, KA6FPS, as Chairwomen for this event. Please contact Barbara for further information and sign up for this event. This is an opportunity to help Amateur Radio for a four hour shift as well as receive free entrance for the day to the Fair.

I am sorry to report that Jack,

KI6JM, is seriously ill and has not been able to attend our General Meetings for several months. Jack has been active in V.E. Testing, Has guided us through the legalese of forming a new set of By Laws that conform to California State Law, and until last year was our Club Historian. Jack has also served as PARC Vice President, and for many years has hosted the monthly fold and staple parties for the Scope. Jack has a very keen sense of humor and has brought levity as well as good common sense to many of our Club activities. Jack is a Five Star Club member who's wit and wisdom has touched all of us who know him. My thoughts are with Jack and his Family during this time of their personal struggle.

I must remind everyone that this month is Field Day. Mark **June 21, 22, and 23** on your calendar for the PARC 5A effort. The Purpose of Field Day is Emergency Communications preparedness, skills and equipment development under "field" conditions and to acquaint the public with the capabilities of Amateur Radio.

We need more operators and we are committed to provide maximum training while maintaining a maximum operations effort. We are committed to see that all who sign up get a chance to operate under the direction of PARC Club's best operators. We want to have as many Club members participate as possible. We are looking for new talent. We want everyone to enjoy this years Field Day, and we are going to Win. Come to our June General Meeting and sign up for a World Class Event, PARC 1996 Field Day effort. If you can not operate please look for us on the bands and give us a point. We will be using the Club Call Sign W6NWG. If you can not come to our General Meeting, please call Frank, KE6WOE or leave a message for him on our PARC Web Page to sign up for Field Day. Remember, PARC is our Club. We are committed to the Amateur Radio Service as members and we are committed to serve our community

Field Day
Set up
Friday 1pm
until
Saturday
11pm
can you
Help?

Field Day
take down
Sunday
11 pm
until 3pm
We need

SK SK SK SK SK SK SK SK SK SK

We regret to announce the passing of:

Walter Smith, KC6OXZ

and

Mark Hill, KC6UGU

They will be missed by all who knew them.

SK SK SK SK SK SK SK SK SK SK

during an Emergency. This is the justification for Frequencies we occupy and the reason we are granted a license to operate.

Please remember this event is being held both on and near Stan, W9FQN's, residence. Please be considerate of his property and his neighbors. We want to be welcomed back next year, and as this is an Emergency exercise, be careful, follow Field Day Site rules, work safely, and do not become an unplanned emergency.

CU FD, 73, Art

+++++

License Gone for Life

The ARRL Letter for May 13, 1996, describes how KB5UJD lost his ham ticket for life for wilful interference and unidentified transmissions. Hams helped in the identification of KB5UJD's location.

+++++

Code Contacts

For the past several years PARC has been conducting Morse Code classes on the

147.075 repeater Monday through Friday from 7 to 8pm in an effort to allow amateurs to increase their code speed so that they can pass the FCC 5, 13, and 20

The NiCad Lady

N6WPA

Battery Pack biting the dust? Get your power source rebuilt with **NEW** higher quality cells! Up to a **50% Savings** over the cost of a new pack!
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P.O.Box 654, Wildomar, CA 92595

wpm code tests.

It has been suggested by **Paul-WA6TIL**, net manager of PARC's CW practice on 147.075, to open up a period of time on one of our repeaters for amateurs to participate in "on the air" 2m contacts using Morse Code. Not all Tech licensees have invested in HF equipment.

A time slot would be assigned for amateurs to use code oscillators over their 2m FM transceivers to send to each other just like they would do using HF transceivers on 40 meters CW.

Anyone with a 2m transceiver and a method of generating an audio CW signal would be able to participate.

Years ago we ran RTTY (an audio signal) on the 146.73 voice repeater every Sunday evening at 9pm. Some even remember several experimenting with computer CW contacts after the net. **Marty Cornell (SK)**, **K6NS**, (*no smoking*), our first club VE, was instrumental in promoting the use of CW on our repeaters.

PARC has frowned on amateurs using any of our 2m repeaters for CW contacts during the day unless it is properly supervised by the club.

Why another net? Nets take repeater time and cut down on "pick up" conversations between two users. One talking and one listening.

But nets can make more efficient use of our repeaters since for every person talking there are 5-15 amateurs participating by listening and waiting their turn to speak.

The morning commute group is a good example of many listening and participating using the same frequency.

This is efficient use of our repeaters.

Net times are selected for times when they will cause the least interference to our members casual use of the repeaters and autopatches.

146.730 147.075 147.130
 6-7p open open open
 7-8p open*** CW net* open
 8-9p traffic** open open
 9-10p nets* open open
 10-12 open CW? open

*= Mon thru Fri **=every night

***=Thur Young People's net

You will note that the club has tried to keep at least one repeater free (always the same one) of nets so that members can run autopatches or have conversations. In almost all cases there are two repeaters open for members non-net use plus the 449.425 repeater..

It has been suggested that we open up 147.075 for CW contacts from 10pm until 11pm for a 60 day trial period. Contacts started before 11pm can continue. If this works out, we might open up a spot in the morning for CW practice.

The PARC board has approved this net on a trial basis for **June and July** with the issue to be addressed again at the end of the period.

All you need to do is come up on frequency and call CQ in Morse Code running low power. Remember that your rigs will get hot with longer transmissions so run low power and/or use an ice pack to cool the rig. You might have more success if you set up a schedule with someone in the beginning.

It would be considerate to ask if anyone was planning on using the repeater before starting just in case someone had a prior schedule.

The usage of 140.075 is low at this time of the evening so there should be few problems in using it for practice.

PARC will require that you identify properly in CW and that you give your call by voice after the initial contact is established and when you sign off in CW at the end of the contact. All other IDs can be by CW.

Contact **Paul-WA6TIL**, PARC's CW net manager for more information.

+++++

Listen for us!

Frank Littlebury, ke6woe@amsat.org

If you can't help out the club on site for Field Day this year, please listen on all the amateur bands, CW and Phone, from 11:00 am Saturday, June 22 through 11:00 am Sunday, June 23 (yes, all through the night!) for "CQ Field Day de W6NWG" (or the Novice/Tech callsign [TBA] and answer us.

You can help out the club *and* participate yourself in this once-a-year exercise in emergency communications. You can contact us once on each band and mode, if you DO NOT PARTICIPATE with the club on-site. Here's how you do it:

Respond to the club's "CQ" by responding "W6NWG, de [yourcall] + [your class station] + "California". Here are the classifications...

1D is in your home using commercial power

1C is in your car, boat or airplane (ie., mobile)

1B-battery is your HT (5 watts or less, using battery, solar, wind generator power)

1E is the same as 1D, but using an *emergency* power source (battery, solar, etc.)

Here's an example response to W6NWG's CQ:

"W6NWG this is KE6WOE, 1E (or 1D) San Diego Section."

We will respond with:

"KE6WOE this is W6NWG 5A San Diego Section."

That's all there is to it. Participate and have some fun! Support your club's effort.

+++++

HT Notice:

This HT manual is written in a style that makes IRS instructions look like a paragon of clarity. It contains 100 pages of theory of operation, 200 pages on the implementation strategy and data structures, and three pages on how to actually use the HT.

Can't
Come?
Give
us a
Contact
all
Bands
all
Modes

Radio and Test Equipment Repair

All Makes
Reasonable Rates

Lou de Beer
ND6W
 (619) 437-8351

For Sail

w6nwg@amsat.org/w9fq@amsat.org/PALBBS

Phone or send ads to your editor before the 20th of each month. Copy your ads after the form used here in. Personal equipment ads are free to members.

Commercial Ads: \$2/column inch/mo. We will "squash" your copy to the number of inches bought. Ads billed Feb., May, Aug., & Nov.

Ads older than 4-months might be "bumped" for newer ads!

NEW ADS.

(5-23)Estate ICOM 751A \$800; MFJ-1278 \$BO; MFJ-Delux Versa Tuner II MFJ941D \$75; Bencher Paddle BY-1 \$35; Brass Straight Key \$BO; AEA Morse Machine \$BO; RX-100 Noise Bridge \$35; Mike KD6VHI 749-8888 VlyCtr.

(5-22)Estate Sears 6hp Roto-Spader \$150; 524D Tektronix Scope \$BO; Underwood Typewriter \$BO; Chippewa Wood Chipper \$300; John WB6IQS 727-3876 Vista.

(5-18)Butternut Ant w/cables etc; Hustler ant w/mount/masts + assortment of tips/coils 10=80m: Joe N6RVO 433-6885 Ocsd.

(05-15)Kenwood TR-7800 2m xcvr, 10-15w w/mic/rack, no PL, \$65: Wayne W6RWV 724-0777 Vista.

(05-02)Estate

(W6TDC) Kenwoods 450s \$930, 440sat \$757, 922A with spare tube \$1,500, 140s \$540; assorted antennas, tubes, and parts; must go before June 5th: Richard 724-7460 Vista.

(04-24)Yaesu FT-5100 2m/440 xcvr like new w/decode & mobile quick release bracket \$550: Dinh KE6KDP 941-1529.

(04-18)Kenwood TS-830s xcvr ex cond \$500 OBO: Tom KE6HRL 741-1364 Esc.

(04-11)"Health Spa" (\$1,100 value) (sell or trade) 8' portable oc-

tagon fiber glass seats with jets/spray, 110V, heater cover & gazebo lattice for an HF Ham mobile linear or etc.: Larry W7HKI 439-5855 Ocsd.

CORRECTION 2 PRICE BELOW

(your editor hit a 5 but forgot to shift so it came out a "4")

(04-09)Tower 54' crankup + new control motor + HiGain control Unit + HiGain Quad all for \$500 cash: Bob KO6EM 728-4835.

(04-02) Kenwoods a)930 w/tuner \$950, b)220 Scope \$200, c)930 spkr, c)TS130 w/war w/b \$350, d)TS130 tuner w/b \$75, e)2m/241 A/B \$300, f)7850 mobile 50w w/b \$300; Yaesu

FL2100 b/ex tubes \$400; RTTY Commodore cpl AEA monitor \$300 & 1540 printer; MFJ 9410 tuner (E) \$100: Larry W7HKI 439-5855 Ocsd.

(04-02) PK64 Pkt w/commodore keyboard \$100; Bencher key w/tet keyer \$100: Larry W7HKI 439-5855 Ocsd.

Ads sent to the club box 73 in Vista can only be given to your editor twice a month so send them to 30311 Cir R Ln, Vly Ctr, CA 92082-4806.

(02-24) Hy-Gain 4el mono bander w/balun \$100: Paul WA6IPF 726-5007 Vista.

(02-20) Okidata 192+ near letter quality dot matrix printer, stand, box of paper, parallel cable, manuals, IBM compatible \$49; Howard WB6AKM 453-3156 nites or 642-2400, ext 1201 days SD.

(1-4) Hamond Organ with course was \$2,300 now \$400 or trade for HF/UHF equip: Steve W2MRM 451-5690 R. Bernardo.

(Please let me know if you buy or sell so I can take out the ad -Ed.)

WANTED: A few good men/women.

(5-21)Dead or Mal-functioning

PARC ads cost \$2.00 per column inch per month with a \$6 minimum payment which would get you three months(1"). You can really get quite a bit of information in an ad like this. This ad is one inch. Most ads are 2.5" and 5" or \$5 and \$10 per issue. Ad setup is free. Pay by check & send 2 W9FQN.

DEO QSK-1500 RF Pin Diode Unit: Dennis N6KI 271-6079 Sandago. (05-4)SP-520 spkr cabinet; PC-1 phone patch: Henry WB0YQC 722-5394 Ocsd (leave message).

(04-24)Scanner, Realistic Portable Pro 38, 39, or 43; base 2005 or 2006; Bearcat 760XLT or 8500XLT: Bob KD6VAN 431-5907 Carlsbad.

(4-14) need information of the modification of a communications monitor, CE-3, for "opening" up the 70cm band & need cover door for the unit: Mike AB6QT 742-1573 Escondido.

(2-24)mono bander 15m beam: Paul WA6IPF 726-5007 Vista.

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Project Help Needed

PARC has a large number of projects that take varying degrees of electronic knowledge: none to quite a bit. If you can help us with any project, please contact a Board Member.

TRAILER: it is now located at the QTH of Jo-KB6NM and A.J.-KB6NML where the new floor will be

PALOMAR ENGINEERS

Box 462222, Escondido, CA 92046

TOROID CORES

Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request. Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. Model RFI-3 \$18 + tax + \$6 to ship.

RF CURRENT METER

Measure the current in your radials, see which ones work and which ones are broken. Check for current on the coax shield, etc. Useful from 1ma to 5amp 1-30 MHz.

Model PCM-1 Clamp-on Current Meter \$125 + tax + 6 S&H.

R-X NOISE BRIDGE

Learn truth about your antenna, & resonant frequency. Adjust it to your operating frequency quickly and easily.

Price \$79.95 + tax + \$6 S&H.

TUNER-TUNER

Tune your tuner without transmitting. Save that rig! Just listen to the Tuner-Tuner's noise with your receiver. Adjust your tuner for a null and presto! You have a 1:1 SWR.

Model PT-340 \$99.95 + tax + \$6 S&H

Please check our complete ads in QST, 73, CQ, and World Radio magazines.

CQ CQ CQ
Field Day
this is
Whisky 6
Nothin
Works
Good
W6NWC
CQ
Field Day



installed along with another operating table up front (see last month's SCOPE -Ed)

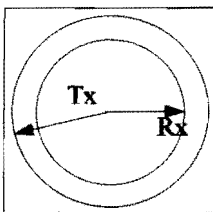
Help is needed to get the trailer ready for Field Day.

QST magazine has a nice article explaining how most repeaters can transmit better than they can receive.

This really has little to do with the repeater but more with the relationship between the repeater and the mobile or Handi-talkie user.

For example, assume a 100 watt repeater transmitter with its antenna out in the clear.

Next, assume a 50 watt mobile. It only stands to reason that 100 watts will buy you more distance than 50 watts



..and then how about that 5 watt HT? (repeater site cavity and feedline losses are ignored along with 9db of gain in the antenna system since they are working on transmit and on receive).

What we really need is a system of satellite receivers located in specific locations in SDCo. which will pick up these weaker signals and relay them to the mountain where a voter will decide which signal is best: repeater or one of the satellite receivers.

The QST article describes such a system controller and even has a kit of parts and board for under \$200.

Is anyone interested in turning 146.730(-) into a **super repeater** for mobiles and HT's? The project requires someone to put the kit together and coordinate activities. Another person will have to work with the link transmitters and receivers.

Remember that PARC is loaded with Technicians who can help you get started on this project. Contact W9FQN for more information.

+++++

Home Helpers

PARC has need of members who can help the club with their computers.

1)Drawings: a. plot plans of the repeater site; b. plot plans of the antenna tower; plot plans of a proposed re-

peater site building, etc.

2)DATA BASE: listing of all club equipment, designations, location, status, cost, replacement cost, etc.

These are projects which can be done at home with the information being called into you for updates.

It would be nice if you could visit the site or equipment storage areas to see what everything looks like but this would not be a requirement.

We are a big club and it is almost unbelievable the amount of junk (expensive equipment -Ed) that the club is trying to keep track of using out dated methods. PARC's tower alone with antennas is probably worth in excess of \$18,000.

The ideal situation would be to have several people working on each of these projects who have IBM compatibles connected to packet, Email, or have modems for file transfer.

+++++

Club Workparties etc

Stan Rohrer, w9fqn@amsat.org

The next work party will be held Sunday, June 9th. Meet at Mother's Kitchen parking lot immediately to the left at the top of Palomar Mountain. Leave your parking lights on. Talk-in will be 146.730. We will leave from the parking lot at 10:15pm for the repeater site. Top of P.Mt is 45 minutes from Escondido.

(5-5) Great day at the site! Clear skies. Warm but not hot. And the crew was especially humorous.

Dennis-KC6MQC and Zac-KC6MQC worked on the guys adjusting tension to 80 pounds in 6-guys and to 400 pounds in the thick guys which read 200 pounds tension when just laying on the ground.

First timers Frank-KC6WOE and Scottie-KH6TL took readings on their GPS unit and then proceeded to question the orientation of the tower which we always assumed from previous calculations as having the face point at 220 degrees. Frank also cleaned up several dusty autopatch boards and connectors.

Art-KC6UQH exchanged power

supplies on the 147.075 so that it now has a switching unit with little or no hum. He also installed the power transfer switch built by Ken-N6ALA so that the repeater automatically switches to DC when we loose AC power. The DC power beeper was activated during transmissions..

Joe-KE6WEO was the only one who spent most of the day on the tower. He finished the insulating of the Rohn cross-arms at the third level leaving only the 70' top support to be insulated.

Bob-KA6NZL worked on checking the SWRs of all of the antennas to see what needed attention on the next work party.

David-KC6YSO, John-WB6IQS and Stan-W9FQN helped out where needed and always seemed quite busy.

After the workparty, John and Stan drove to Bob's house and picked up three Motorola racks that Bob donated just like we are using on our other repeaters.

Lots of ideas for future workparties where discussed and a good time was had by all.

It is interesting to note that the 1kw emergency generator donated by "Little Joe", WB6HMY, started on the 3rd pull and ran perfectly for 30 minutes after having set for two years without running. Guess that the gas preservative really works!

+++++

146.73 Interference

During most of April the .73 repeater has been experiencing interference from the Yellow Taxie Dispatcher in Ocean-side.

Ken-N6ALA and Steve-KE6GXP located the signal in Oceanside. Bob-KA6NZL from his QTH in Valley Center, using his service monitor, discovered that a signal on 158.770 mixing

SCOPE will provide 1" free ads like this one on a "space available" basis to club members (no commercial ads, personal belonging ads). You pick the subject of your ad: thanks to someone, ARES/RACES, request for help, notices, etc. Your editor will be "soul" judge of your ad -W9FQN.

Field Day
is ARES and
RACES
emergency
training

with the Taxie Cab transmitter on 152.450 gave an output on 146.130 which is the input of the 146.730 repeater.

Erik-KO6IQ looked for the signal on Palomar Mt. and then visited the offending station in Oceanside.

Stan-W9FQN made some calls which determined the manager at Yellow Cab and also who the electronics company was that took care of the offending transmitter. It appeared that this was not the first "spur" problem that they have experienced.

Paul-WN6K, former PARC president, was in contact with the electronics company taking care of the offending transmitter and soon after reported that the Yellow Taxie Cab Co. was now using a new transmitter.

Thanks to all who were concerned and did something about it.

+++++

Repeater Technical

John Kuivinen, WB6IQS@amsat.org

All of PARC's repeaters with the exception of 147.13 will now revert to 14vdc power when AC power is lost.

The 147.075 repeater is the only one with a beep during transmissions to signify DC operation. The others will be modified in the same way as time permits.

A beep at the end of a transmission means a loss of input carrier. A series of beeps during all transmissions is indicating 12vdc emergency power. A "P" in Morse Code at the end of each transmission means we lost 110vac power sometime in the past (or present) and has not been reset by a control operator.

+++++

Repeater Operations

Stan Rohrer, w9fqm@amsat.org/PALBBS

We have need of club members who can monitor several frequencies for us. A scanner would be helpful. Most of the frequencies are in or just above the 70cm band.

+++++

Patches

Jerry Houser, WB6FMT

The 449.425 autopatch is still

turned off because of abuse and it is our understanding that the 146.175 in Fallbrook has been permanently turned off.

All PARC autopatches will be turned off sometime after 10:30pm to reduce the chance of additional problems by this one individual.

Several things are being done to eliminate the problem and we hope that they succeed sometime soon!

We are truly sorry for any inconvenience that this might cause anyone and we hope everything will be back to normal by the end of June when "plan two" will probably be in effect.

There was a problem with the 147.13 autopatch interface around the 15th. Two attempts to repair the problem have failed.

The 146.73 and 147.075 patches have been working normally.

+++++

Emerg. Vol. Air Corps

Nash Williams, W6HCD

On Saturday 4/20/96 at 8am the Fallbrook Emergency Volunteer Air Corps wing participated in a county-wide disaster preparedness drill flying two missions - one fixed wing and one helio. There were nine of us participating, seven of whom were hams.

On Sunday at 6am hams were deployed in North County in support of the annual Avocado Festival and in particular the 50 mile bike race Guacamole Grande. I manned the aid station at Mission & Olive Hill. The "aid" dispensed there consisted primarily of cantaloupe, oranges, juice drinks, cookies, water, and guacamole. The frequency assigned for me was 446.275 (PL 103.5); its in Rainbow and has zero bells and whistles.

+++++

CQ World-Wide '95 WPX CW Contest

CQ Magazine listed a PARC group

William J. Broad: "The crux... is that the vast majority of the mass of the universe seems to be missing."

with 25,667 points although the PARC Board is not aware of any PARC group participating in any contests.

Recently QST Magazine editors contacted us for a listing of our "contest" group ..and of course, we don't know who they are! Please, if you are sending in results of contests and listing them as with PARC, let us know who you are before the contest.

We would like to encourage club members to participate in contesting ..but we need to know who you are and what call you are using.

+++++

VE Program

Rusty Massie, AA6OM

SANDARC VE testing locations are now charging \$3/session. You must have EXACT change!

May 11th: 11 tested, 17 elements, 12 passes, and 2 no-shows.

Extra: KF6CCH-Mark, KQ6FX-Fred.

Advanced: KE6EZZ-Joe, KE6KNN-Juan.

Tech+: KE6WEO-Joe, KE6MWD-Remy.

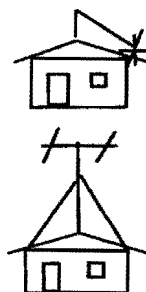
Tech: John Moore.

Test Team: KO6IQ-Eric, KB5MU-Paul, AA6OM-Rusty, KE6VX-Bob, & WA6HYC-Bill.

+++++

VE Exams \$3/session

Due to unexpected financial problems, SANDARC has announced that they must charge \$3.00 for each exam day starting with June. So make sure that you bring the EXACT change to your local VE test center since they are



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!

Radio systems installation, repair and removal, and interference resolution.

Edward Ross, N6GZI
(619)542-1405

Antenna

Specialties



not prepared to make change for you.

After the South West Division Convention in '98, they will probably revert back to free exams.

+++++

VOACAP

Brian K6STI@n2.net

To: cq-contest@tgv.com

Subject: VOACAP

I'd like to alert testers to the fabulous VOACAP propagation-prediction program available for free at ftp.voa.gov. This is a version of the professional IONCAP program that has been substantially enhanced for use by the Voice of America on HF circuits.

Here's what you can do with VOACAP: Specify the month of the year, the sunspot number, your QTH, power, antenna type, height above ground, and many other station parameters. Define an area of interest (Europe, for example). VOACAP then draws a map of the area with receive signal strength, S/N, MUF, radiation angle, or any of a dozen other parameters overlaid as continuous color regions. You can see your coverage area at a glance. You can change any parameter and see how it affects coverage. The graphics are stunning and the information fascinating.

Can't
Come?
Give
us a
Contact
all
Bands
all
Modes

I think every serious tester should have a copy of VOACAP. It's a tremendous tool both for investigating unknown but possible DX paths and for checking your coverage into high-rate regions. For example, Dean Straw, N6BV, checked his coverage into Europe by plotting signal-strength maps. The maps revealed unexpected coverage holes in localized but high-population areas due to pattern nulls in his antenna system. There's simply no other way to obtain valuable information like this. Get the Windows version--the DOS version lacks certain features and will not be developed further.

To increase VOACAP prediction accuracy, I've written a little

Jobs Open!


Logger
Gopher
Speaker
Keyer

Comp.Op.
Contact PARC
Field Day Inc.
Frank 941-9174
ke6woe@amsat.org

utility to convert elevation patterns generated by the TA 1.0 Terrain Analyzer program to VOACAP antenna files. This utility lets you generate VOACAP maps using the elevation pattern of your specific antenna system as sited in your local terrain. If you have TA and would like a copy of this utility, I'll be happy to e-mail it to you. Please specify uuencode, MIME, or BinHex format.

+++++

Hikers to Cuyamacas

The Friday evening hikers will hike in the Cuyamacas on **Saturday, June 8th**. All interested persons are invited on these hikes which are not a function of PARC. Tune to 146.73 Friday evenings at 9pm  for the latest information.

Remember to bring water and sun lotion.

The May hike was up near the Air Force's radar domes on the Pacific Coast Trail (PCT) and a good time was had by all eight hikers.. KB6NMK-Jo, KE6ZLY-Glen, W9FQN-Stan, N6QDB-Susan, AC6FM-Michael, KF6CTA-Dick, Steve-No call sign, KM6ON-Mike, John-?, & WA6QQQ-Bob.

+++++

PALBBS Settings

Norbert Seibert, KJ6ZD@PALBBS

After watching PALBBS on the 146.7(-) duplex repeater the past 2-3 weeks, I was quite disappointed in seeing some of the problems users were apparently having until the world famous **TEDLY (KD6AKT -Ed)** checked in and out Boom-Boom-Boom! I scratched my head. Other stations were also having no problems.

I thought that I might be able to spread a little Packet Wisdom around SDCo. Let's start with the settings of the repeater port (2nd col) and what is being suggested for you (1st col).

1st, get your TNC's Manual and find the command to **restore the Factory defaults**. Then take the table above and change your settings accordingly.

If it still does not work, try adjusting your volume both ways and watch

| Command | Value | PALBBS | Description |
|----------|-------|--------|------------------|
| TXDela | 500ms | 650ms | Time XMTR starts |
| Ax2512V2 | 100ms | 100ms | Protocol check |
| AXDelay | 100ms | 100ms | Audio Delay |
| AXHang | 20ms | 20ms | Reset if simplex |
| Cwid | NO | NO | No use |
| Frack | 4 | 4 | Wait |
| MAXframe | 4 | 4 | Unack |
| Pacien | 128 | 128 | MaxChar |
| PERsist | 96 | 96 | Complex |
| RESptime | 500ms | 1sec | BBS delay |
| RETry | 10 | 10 | Default |
| Slottime | 10 | 12 | Default |

for improvement or switch to a clear frequency, open your squelch, and adjust the Volume until the Carrier Detect indicator illuminates. Now try again. This will only apply to those RIGS that have the TNC to the External Speaker Jack connected. Other rigs with Mini DIN connectors have no simple adjustment.

Some TNC's have an audio adjust trim pot on the rear. Yours may be to high (distorted) or to low in deviation.

If all fails, possibly your TNC or Radio may have gone to Silicon heaven.

After making the suggested adjustments, issue a C_PALBBS on 146.7(-) and see how it now works.

See me at meetings for further information.

Happy Packeting de KJ6ZD, SYSOP @ PALBBS.

+++++

** FIELD DAY 1996 **

We need you! Setup, takedown, all sorts of operators. Call 941-9174

Editor's Letters

Your Editor and the Board reserve the right to accept and edit all letters (length & clarity) without changing the intent of the letter. Letters are usually printed on a "first in/first out" basis -Ed.

EVENING TRAFFIC NET

(de Charles-N6TEP, co-manager evening traffic net (SDCTN)) ..this net differs from all other PARC nets in that it is our only interface between Amateur Radio and the public. All our other nets serve amateur radio. The traffic net serves the public, and by handling MARS traffic, the armed forces.

Mostly for that reason, it must be conducted in a manner that leaves no doubt about the professional capabilities and attitudes of its members.

Since it may involve every method of communication we can muster to streamline its service aspects, even if older and slower methods may suffer at times in the interest of keeping up with heavy work loads, and even if not every evening is devoted to training, the show must go on.

This means that we may be forced to use the fastest and most reliable methods we have. As correctly stated in the April SCOPE, "FIRST, THE MESSAGES MUST GO THROUGH", especially since we continue to have no more than an average of seven stations checking in on any given night, and it becomes necessary for 3 or 4 remaining dependable net control operators to jump in and take over when others simply don't show up for that job, without even bothering to notify anyone in advance.

...the people who complain the loudest about lack of opportunity to use voice are the very ones who rarely, if ever, take a message to deliver, or take any kind of responsibility for the operation of the net. It is, therefore, incumbent on 3 or 4 members who have digital equipment, to deal with the often heavy traffic load. If we depended on the complainers and stopped using RTTY, packet, tape recorders and autotapes, many messages would sim-

ply go undelivered, or be postponed until "doomsday".

The few reliable net participants we have are spending more of their time beyond the call of duty than I can say "thank you" for.

It is for this reason that we need it to be known that:

1)PALBBS has been a godsend for the traffic net. Bemoaning its efficiency is counterproductive. Let us join the 20th Century unmolested.

2)We cannot simply allow the net to deteriorate for the lack of participation. This would only unfairly punish the recipients of the traffic.

3)The message to the complainers should simply be: "Put up or shut up!" If you want training, there is still plenty of voice traffic for you to take, if you would only do so.

4)We welcome help from any member willing to put in any time at all. The experience of the last few years has been not to expect miracles.

5)The net's purpose is to serve a practical need, in conformance with FCC Code and Regulations Part 97.1a, b, and c, as symbolized by the first 3 stars in our club's logo. Trying to train more traffic handlers who are not there to begin with, lacks purpose.

Jobs Open!

Logger
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ke6woe@amsat.org

6)We will operate in the best interests of the public we serve, unless ordered to stop doing so by the PARC board.

In my opinion, we should neither curtail the efficiency of the net by failure to use the best technology available to make it work, nor should we have to listen to detractors whose proposals are regres-

sive, counterproductive, and a violation of the spirit and purpose of amateur radio in promoting technical progress. Time-honored antique methods of communication may have their place in an emergency, but must not be used to block progress. 73, Charles, N6TEP.

bravo1@alderaan.pcix.com

I just wanted to say hi to all who may know me. I still have the scope read to me all the time and enjoy it. Keep up the good work. Look for you

during Field Day 73, WA1CSO, Joe Silveira, RI.

+++++

callsign@amsat.org

To get a free **amsat.org** address, send a four line email>

TO: **listserv@amsat.org**

⇒ Call: **N6YZZ**

⇒ Adr: **cantuf@data.net.mx**

⇒ Want: **n6yzz@amsat.org**

⇒ Tnx Paul (Thanks Paul)

+++++

KD6PBH GPS Unit

This GPS display is a compact unit which shows latitude, longitude, UTC "zulu" time, number of satellites and the computed Grid Square location. The unit needs a serial connection from a GPS receiver and +9 to 15V power.

Computations are valid for any North American location.

I'm using a MC68HC705J1A micro-controller. This receives the serial input, drives the LCD display module, and computes the grid square from the lat-long.



DSP 100

The PC Transceiver

***General Coverage Receiver**
450 KHz to 30 MHz.

***-10 dBm exciter** output for all HF amateur bands. Simple no solder components available to raise power output to 50 or 100 Watts.

***High Dynamic Range** Direct Conversion Architecture with full DSP.

***Two ISA bus card system**, uses an Analog front-end Card and a DSP card for all passband filters and modulation / demodulation.

***FREE software upgrades.**

Call our BBS on (619) 744-4032 for more information and FREE demo software.

Receiver/Exciter + DSP \$695+tax

COMER COMMUNICATIONS INC.,
609 Washington Drive,
San Marcos, CA. 92069.
Tel(619) 744-7266, Fax(619)744-4745

The RS-232 receiver chip works with GPS receivers (e.g., the Garmond 45). Firmware for the micro is burned into on-board PROM.

I can provide a kit which includes all parts, a PC board, programmed microcontroller, instructions, and the LCD module. You will have to provide a cabinet and connectors for your application. Several folks have used the blue plastic Radio Shack box measuring roughly 1.25x2.5x4.5 inches, with Molex and/or DB-9 connectors.

GPS units can be used in Direction Finding, search and rescue ..and keep track of your car! (kids?) See me at meetings for more information.

+++++

Young People's Net

Paul Merrell, kd6jxy@amsat.org

Chris Baldwin just got his first test repeater project on the air. It is low level at his house in Vista and is only a start. The Repeater is a GE Progress-line and running 5 watts. His next task is to get the controller he purchased.

Chris is currently working with other hams to set up the YPRS repeater group (*Young Person's Repeater System -Ed*). His group meets on the 4th Saturday at the Escondido Carrolls. Contact the Thursday 7pm Young People's Net on 146.730 for more information. If other parents are trying to get their kids in to ham radio, they should attend the meeting and see young people getting together to perform a project for the enhancement of

Advertisement
Field Day
Night
Positions
Open!

the amateur art.

+++++

SWAP NETS y mas

Dennis Vernacchia, N6KI
t_deverna@cualcomm.com

The following nets meet on the frequencies and times listed as of 5/15/96.

3.870 WED, 9 PM TIL ?

3.900 TUE, 8PM

7.240 +/- 5 MHZ EVERY SAT & SUN 12:30 PM TIL 3 PM - NET CONTROL W6DFG (SACRAMENTO)

7.235 MHZ MON - FRI 12 NOON TIL ? WA6USL NET CONTROL

7.248 MHZ FRI, 1:30 PM TIL ?

147.090+ (CATALINA REPEATER), NO PL, MON, 8 PM - 9:30 PM

145.240- (ARROWHEAD REPEATER), PL? (I FORGET), 7:30 PM- 8 PM

147.240+ (MONUMENT PK REPEATER), PL 103.5, MON 7:30-8:30 PM

People have asked me how to protect yourself when buying a piece of gear long distance when you cannot see the gear.

1. Call me and ask me if I know who the seller is. I have an idea of who and who not to deal with, especially if it's a high ticket item.

2. Be sure to conclude your deal on the phone and not just on the air, this way you confirm the seller's phone number.

3. Be thorough in questioning the seller about the condx of the gear. Terms like, Fair, Good or Excellent are all relative especially in the eyes of the beholder! Ask if the gear is scratched up or marred/dented and if any of the Panel lettering (Silkscreen) is worn off from fingernails contacting the Panel. Ask if the rig was ever exposed to cigarette smoke, awful if you're a non-smoker!

4. Have the gear shipped C.O.D. only! Have the seller send you a SIGNED First Class letter to arrive before the gear does. In that letter, have the seller state everything he has verbally told you on the phone and include Model and Serial numbers and exact condition. This way, when the gear arrives

and it is other than stated you may have legal recourse.

5. Do your homework and research before buying high ticket items by asking other owners of the same type gear what their experience has been. Never rely solely on the sellers sales pitch!

6. Caveat Emptor and Good Luck!

+++++

(Free) Del Mar Fair

Barbara Rohrer KA6FPS@amsat.org

PARC will again be manning the SANDARC amateur radio information booth at the Del Mar Fair on July 1st and 2nd (Mon/Tues).

We will need twelve operators with two operators per shift. Please sign up for your spot ASAP and receive your free ticket to the Fair.

Mon. 800-1200 1200-1600 1600-2000

Tue. 800-1200 1200-1600 1600-2000.

We will demonstrate various HF/VHF/UHF radios, packet, and hand out information on amateur radio.

Sign up with a friend ..or develop a new friend.

There will be a signup sheet at the June meeting or contact me by E-mail or phone at 749-0276.

+++++

Field Day
Activity
Points (3)
(1) Fri.
(1) Sat.
(1) Sun.

Editor

Stan Rohrer, w9fqm@amsat.org

This makes the third issue of the SCOPE using the new IBM compatible computer and things are getting a little easier.

I hope that some of you will take on the responsibility of being my "eyes and ears" and send me items of general interest to club members. I need "tid-bits", things heard on the repeaters, compliments to members, suggestions, events participated in, etc.

I can't print what I am not aware of (*darn those prepositions!*).

Junk E-Mail

Duane Naugle, ko6bt@amsat.org

You won't receive junk email from AMSAT unless you subscribe to one of their mailing list services (aka: reflectors, ex: ANS, AMSAT-BB, KEPS, SAREX). Then you'll get plenty on a regular basis. The email alias service does not have this problem.

+++++



GPS Display Kit

- displays lat-long, time, number of satellites
- 2x16 LCD module with LED backlight
- connects to GPS receiver serial output
- recognizes NMEA 2.0 GPGLL lines
- computes and displays 6-digit grid square
- low current draw (13mA without backlight)
- complete kit with PC board for \$45
- use as output for Trimble "mushroom" or as a remote display for handheld GPS unit.

For more information, or to reserve your kit, contact J. Goldberg, KD6PBH, via internet: j@harper.com; voice: 619.990.9046

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Directions: On I-15, take Clairemont Mesa Blvd. off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and HRO sign. Be sure to see our equipment in action on real antennas.

BREAK BREAK BREAK

Breaking into a conversation is usually to be avoided except under certain circumstances. You would not walk up to two people talking and break in unless you were very familiar with those talking. So be a little cautious about breaking in over the air.

The following has been accepted amateur practice.

1) YOU WOULD LIKE TO JOIN THE GROUP - when the change-over in conversation occurs, interject only your callsign (ie, N6YZZ). The group should acknowledge you and pick you up within one rotation.

2) YOU HAVE INFO FOR SOMEONE IN THE GROUP THAT IS QUITE TIMELY - at the change-over, interject with a BREAK and your callsign (ie, BREAK N6YZZ). The group should acknowledge you and pick you up immediately or right after the next speaker.

3) YOU HAVE AN EMERGENCY OR IMPORTANT ROAD

ADVISORY THAT REALLY CANNOT WAIT - the group should immediately turn it over to you if you have used BREAK BREAK & your call (ie, BREAK BREAK N6YZZ).

4) The use of BREAK BREAK BREAK YOURCALL is reserved for a true emergency and usually signifies a traffic accident or possible danger to persons or things which needs prompt action. All conversations on the repeater stop until the emergency situation is terminated.

If you do not give your callsign, there really is no reason or obligation to acknowledge your BREAK(s) no matter what the reason!

+++++

Membership Cards

Members looking for membership cards can cut out the membership card on this page. We hope that you will then find your membership label from page 12 on the back of the card. The card can then be protected by laminating it with clear plastic.

+++++

Business Cards

If members want PARC style business cards just like our membership card but with your own name and call on it (below Emergency Communicator in place

of membership info), PARC can provide you with cards at a cost of \$1.00 for 10 sheets of 10 cards each (100 cards).

At present this offer is only good at the June meeting.

You can use the cards in recruiting new members or to indicate the frequencies you are using to friends and acquaintances.

You could also post them on bulletin boards to see if there are other hams around your place of work ..or all over San Diego Co.

Orders will only be taken at the club meeting and work party in June (and at Field Day -Ed). After printing they will be available only at club meetings or work parties.

The quality is the about the same as the membership card in this month's SCOPE although done on slightly heavier paper using an inkjet printer. You need to cut the cards on each sheet.

+++++

146.730 into The Pacific

On the 28th of April we had a ship at sea using the .73 repeater from Lat 29deg 57min N. Latitude and 118deg 06min West Longitude which is many miles from the repeater on Palomar Mountain. The record for ships at sea is probably held by the US Independence talking from 1,000 miles out to sea on its return to San Diego.

+++++

PALOMAR AMATEUR RADIO CLUB Inc.

POBox 73, Vista, CA 92085-0073

OPEN REPEATERS W6NBWG

Autopatches: *449.425(-), 146.730

*147.075+, *147.13+ *PL 107.2Hz

145.05s Pkt & 146.7- Pkt w/PALBBS,

ATV (ARRL Full Service Club)

EMERGENCY

COMMUNICATOR

Name, address, and membership
status on reverse side of card.



(cut out and enclose in plastic)



OPEN REPEATERS / CLOSED AUTOPATCHES, PALOMAR MOUNTAIN REPEATERS (W6NWG)
PARC Trustee of W6NWG: AB6QT
***52.680- W6NWG, -0.5 MHz**
Autopatches(4): 146.730-, *147.075+
***147.130+, *449.425-**
PKT: 145.050s PALMAR-1 Open
(linked PARC 9600 METROLINK)
146.700- Duplex, BBS/EMG use
145.050/146.7- (W6NWG/PALBBS)
ATV:915 wbfm, 919AM,2441.25 wbfm
Intercom: 144.39, PL 79.7 nbfm
OUT: 1241.25 MHz AM
OTHER: *224.38- & *224.94- KK6KD
***224.90-WD6HFD(220Club)**
448.00- WB6FMT(123.OPL)
***146.175+ WA6IPD, Falbrk**
*** = PL of 107.2 Hz**

Field Day '96 is here.

Where will you be?

Will you operate?

Will you help set up?

Will you be an Op/Logger?

This is Emergency Training!

May SCOPE helpers: Ralph-KC6WAN, Lloyd-W6TFB & Lisbeth, Larry-WA6UTQ, Harry-WA6YOO, Art & Anita-KB6YHZ/YHY, Jo-KB6NMK (also April) and Stan-W9FQN.

Mail the application (or copy) with your check to PARC, P.O.Box 73, Vista, CA 92085-0073 or give to our membership chairman at meetings. We prefer checks: you have a record.

Dues are \$12/yr. including \$3 for SCOPE (\$4 outside SDCO), or \$21/yr for a family all living at the same address. Consider paying for 2-3yrs at a time to reduce the work for the membership chairman.

Name, call, and complete address are required. Telephone number is required but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet, send a Self-Addressed-Stamped-Envelop (SASE) with your phone number on the inside flap with your application or the receipt of the next newsletter mailed the last week of each month will be your only notification of membership..

PARC NETS (16/37)

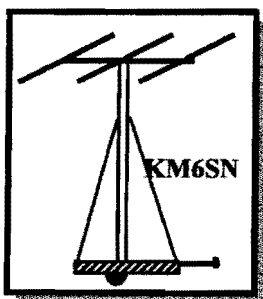
All 146.730 8:00pm Traffic Net (SDCTN)
 All 147.075 10-11pm MCW contacts
 All 147.130 10+ pm King Henry's Net
(open to all facetious amateurs)
 Sun. 146.730 8:30am AREmergency Service
 Sun. 146.730 10:00pm Sailor's Net
 Sun. 147.075 8:45pm MARA Net
 Sun. 146.730 9:00pm This Wk in SDCo.
 Mo. 147.130 6:45pm EVAC (2nd/4th)
 M-F 147.075 7:00pm Morse Code Net
 Mo. 146.730 7:15pm RACES sub Net
 Mo. 146.730 9:00pm Microwave Net
 Tue. 146.730 9:00pm Voice Packet Net
 We. 146.730 9:00pm Spanish (2nd/4th)
 Thu. 146.730 7:00pm Young People's Net
 Thu. 146.730 9:00pm Ham Help Net
(electronics, computers, antennas, license theory, etc.)
 Fri. 146.730 9:00pm Hiker's Net

PARC BOARD

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MSh: Ralph Powel, KC6WAN, 727.7415
Mem: Mike Doyle, AB6QT, 742.1573
Mem: Marv Munster, WB6PKK 941.9174
(and others)
VE Program: Rusty, AA6OM, 747.5872
(2nd Sat. ea. mo. Carlsbad Safety Center)
ATV/Edu: Bill, KB6MCU, 582.2313
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 30311 Cir R Ln, Valley Ctr CA 92082
 w9fq@amsat.org
 or ka6fps@sdcoe.k12.ca.us
PALBBS: Norbert, KJ6ZD, 630.5538
 145.050 PktSimplex, 146.700-PktDuplex
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<http://www.electricti.com/parc>

(if checked) LOOK AT ATTACHED AUTO-PATCH SHEET. NOT CALLING PROPERLY!

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Scope

Palomar Amateur Radio Club Inc.
Box 73, Vista, CA 92085-0073

July *** 1996 ***** 60 Years Old**
Dues \$12, Volume XXII, Number 7
Coffee 7pm, Mtg. 7:30pm @ Carlsbad Safety Center, Palomar Airport Rd. to N. on Camino Real (S11), east on Faraday .25mi, left to CSC.
+++++++ Talk-in 146.730 +++++++
4-Patches 147.075+, 147.130+, 449.425-
Pkt, ATV, 220, PALBBS & w6nwg@amsat.org

NEWS WORTHY (see page)

2-Board, Members, Treas, LastMtg,
Tnx, AGOGO, PO Rates, VE
3-PresRemarks, W6VR, HamHelpNet
4-10.4Ghz ATV, Packet News
5-For Sale, Swapmeets
6-Mon.Stations, BarBQ, SCOPE Inf
7-E-mail Rosters, Workparties
8- ReptTech, Editor, CW, Autopatch
9-DXCC, Experts
10-Trailer, Battery, FCC, TwrBase
11-MembershipInf
12-Application, Officers, Board, etc.

July Mtg. Program

Sybil Albright, W6GIC@amsat.org

The program for July will be Kerry, N6IZW, on a 10Mhz repeater.

Show and Tell: if you have anything of interest, bring it in and tell me how much time you need before the meeting starts (*limit 2 min.*).

Club meeting starts at 7:30pm but many come at 7pm to talk to friends, sample goodies & coffee, join in a seminar, get a good seat, or be first to see small items of equipment being brought in for the club's sale table where the club takes 10% of the selling price.

Check 146.730- around 6pm for where some members are eating dinner before the meeting.

Please come early and help set up chairs ...and **STAY** a few minutes to help put them away. Your help is greatly appreciated!

Upcoming meetings:

Please contact me at club meetings or drop me a note at the club's PO Box if you have program suggestions.
(Aug) Switching Power Supplies
(Sep) APRS Lat/Long N6JZE
(Oct) Annual club Auction
(Nov) Microwave projects
(Dec) Christmas Equipment Mtg.

150 members need to renew this month. Please consider sending in dues for 2-3 years to cut down on our paperwork. Thanks!

SK SK WB6ZFB SK SK

Richard Stultz, WB6ZFB, passed away June 1st. He was well known among the Navy MARS people as NNØJWW. He will be missed by all amateurs who knew him.

SK SK WB6ZFB SK SK

KBØWQS Licensed

Frank-KE6WOE's son, Chris, took his Tech. test with PARC's VE team on Saturday the 1st and when they checked the FCC data base on the morning of the 4th they found his new callsign, **KBØWQS**, and with his new HT he is terrorizing all of the VHF/UHF repeaters he can find under the guidance of **Chris-KE6AJM**.

The new VE/FCC automated data base license system is alive and working! Those three month waits are gone forever!

+ + + + +

Sick Call

Jack Hanthorn KI6JM: Jack has undergone a serious operation and has been confined to bed for the immediate future with no visitors.

Lloyd Hunt W6TFB: Lloyd has suffered a series of light strokes which have left one side slightly paralyzed. He is recuperating at Scripps Hospital in Encinitas.

Both of these amateurs have been strong supporters of PARC and both have folded and stapled the SCOPE every month for many years. We are thinking of them and wish them both well at this time.

July Calendar '96

01 Santee Swap Meet (*drive in theater*)
1-2 PARC at Del Mar Fair Booth
05 Club Mtg. Carlsbad Safety Ctr, 7:30pm
08 PARC VE Testing Carlsbad Saf.Ctr, 10am
09 Rptr Site Work Party 10:30am P.Mt.
13 PARC BoardMtg. ??? QTH, 7pm

Field Day

Field Day '96 will be covered in the August SCOPE since the deadline for this SCOPE is the day before FD.

Many thanks to all of those who took part and a special thanks to all FD Station Heads, **Frank KE6WOE**, **John WB6IQS**, and **Wayne WD6AHX** for their dedication and effort.

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Earthquake Detector

David_Drake@smtpgate.mitchell.com AC60A

The earthquake detector to be installed on the 146.730 repeater is almost completed and will probably be installed sometime after Field Day.

The detector was buried last year at the repeater site and the ground has had almost a year to settle with the winter rains allowing good contact between it and the surrounding ground.

I have finished the detector and electronics for installation at the repeater site: voltage detector with adjustable limit trigger, and electronic voice announcer.

When installed on the 146.730 repeater, a woman's voice will announce **QUAKE ALERT** and then start count-



ing off the seconds so that those listening to 146.730 will know the phase difference between the detector at the site and where they are located.

This information should allow us to predict the general area quite rapidly from which the disturbance came.

Pre-prepared maps with phase difference times plotted could be of great help. Anyone interested in helping with the prediction phase of this project?

It would take an IBM computer, some calculations, and/or the ability to draw circles. Contact AC6OA or your editor for more information.

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Many Thanks To:

Goodie/Coffee Table: Art-KB6YHZ and Anita-KB6YHY.

Meeting Goodies: Bill-KM6PY, Jack-WB6AXW, and George-K6YGK.

Wayne-WD6AHX for taking the Sunday morning ARES net for July.

Larry-WA6UTQ for all of the interesting information and the ideas it generates and Milt-W6MK for more W5YI reports.

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Post Office New Rates

The US Post Office in its infinite wisdom has decided to *simplify* the postage rates and service. Stan-W9FQN attended one of their 4-hour seminars attempting to learn their new rates and qualifications for them.

Several weeks later Ralph-KC6WAN and Stan attended a two hour session.

It probably all boils down to the following. If we continue doing what we are presently doing, our mailing rates will go up considerably. If we do more of what the post office has been doing, our rates will drop from what we now pay.

They are pushing us towards moving away from the use of staples in the SCOPE (we have two) and replacing them with paper "tabs."

They also want us to use bar codes in the address where the ZIP barcode becomes 5+4+2. The last two digits come from the last two digits of your house number (30311 becomes 11 which al-

lows them to tell which side of the street it is on).

With this information local PO's will be able to run their mail thru a sorter and it will come out exactly the way the postman walks down his beat.

Does anyone know of a good barcode program we could use?

They are also going to require us to certify that we have checked our membership list several times per year to assure everyone that all subscriber's ZIP codes are correct.

Such is progress at the Federal level.

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Last Club Meeting

Program was by Frank-KE6WOE and the heads of each of the operating positions. An excellent picture was painted of what we are doing for Field Day and what remains to be done before June 21st.

In attendance were 9 guests and 114 members for a total of 123.

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Treasurer \$\$,\$\$\$,\$\$

| | |
|---|-----------------------|
| Jo Ashley, KB6NMK@amsat.org | May96 |
| \$6,211 EquipReserve | \$ 7,250 Checking |
| \$7,497 Operations | \$6,358 CD's (2) |
| | \$ 0 Cash |
| \$13,708 Total | \$13,708 Total |
| Past totals: Apr. \$13,466; Mar \$13,300; Feb. \$13,021; and Jan. \$13,388. | |

To be spent: Field Day, antennas, 147.13 new repeater, phone protectors, battery containers, etc.

Normal expenses: phones, postage, Scope, electricity, insurance, etc.

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Board Meeting

Board meetings are always held on Thursday at 7pm on the week following the club meeting at various Board Member QTH's. All members are welcome.

The 7pm meeting started at 7:10 with: KC6UQH, W6GIC, KC6YSO, KB6NMK, WB6IQS, W9FQN, KC6WAN, AB6QT & WB6PKK(ab).

Others: KE6WOE (FD), KE6BGI (FD), & WB6MCU (ATV/Training).

Discussed/Approved: programs, membership 873, May minutes, 2m/7cm corner reflector \$160, board "@amsat.org" addresses, autopatch protectors \$150, FD food \$400, FD

equipment \$400, ATV & Classes report, battery boxes, demonstration by AB6QT of new repeater replacement for 146.730, Bob-KA6NZL to take on building of a new 147.130 repeater, KC6YSO appointed net manager of 6m ARES net, offer of 150 Mhz repeater by Bill-WB6MCU, & next meeting at John-WB6IQS QTH. Meeting ended at 9:19 after goodies prepared by Barbara-KA6FPS.

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PARC VE Program

Rusty Massie, AA6OM 747.5872
1249 Nordahl Rd., Escondido, CA 92026

SANDARC VE testing locations are now charging \$3/session. You must have exact change! PARC testing is the 2nd Saturday of each month at the Carlsbad Safety Center in Carlsbad at 9:30am. Contact me seven days before the exam date so that I can have the proper test(s) available for you.

June 8th, 14 candidates, 24 elements, 14 passes and 3 no-shows.

Adv.->Extra: KN6RH.

Gen.->Adv.: KE6BZP.

None->Tech.: Larry Brady, Chris Reeser, Tim McCormick, & Ted Ruane.

None->Novice: John Ward

Passed: KE6VJL(3B), Dick Wilkins(el 2).

Test Team: Bob-KE6VX, Mark-AA6TR, Bill-WA6HYC, Rusty-AA6OM, Duane-WB6R, Jack-AA6UQ, & H.M.-K6SK.

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AGOGO

(history)

K6HAV / KI6JM / W9FQN

(7-95).. mtg. attendance 131 ..June FD mtg. by Ellen-N6UWW ..224.9 220 Club of SD repeater built and installed by Bill-KB6MCU at site replacing 7' rack ..building committee appointed (still working -Ed) ..95 Field Day report by Ellen-N6UWW ...

(7-86).. Paul Heisman, KA6PPD, the SCOPE's almost free printer for five years sells business and can no longer print the SCOPE ..K0JPK issued 90 day TASMA test ..June mtg. by Bob Gonsett, WA6QQQ, on radio/TV engineering plus radiation tests on HT antennas ..concerns expressed on buying repeater site ..FCC field office moves

from La Mesa to SD ..Clint Call, W6OFT has back surgery ..Floyd-W6JSP & Vanessa-WB6BHE(SK) back from Utah trip ...

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President's Wave Length

Art McBride, KC6UQH@amsat.org

For the benefit of new Members and a review for older members here is PARC Policy on jamming. From time to time we have a rash of Jamming activities on our Repeaters. Some of this type of activity comes from non Licensed persons and some from Amateur Operators that either think they are Repeater Police or would rather disrupt conversations than be a part of Amateur Radio.

People who jam our Repeaters receive their reward from the negative comments from those they Jam. Our Repeaters have far less problems with Jammers because of our Policy of not acknowledging the act of Jamming on the Air. What you can do is check the input to our Repeater that is being jammed, if you hear the jammer on the input, note the signal strength and your location. Notify Stan, W9FQN, Mike, AB6QT, or myself by phone if you are being jammed. Be prepared to answer questions about your location, time, date, and what you found on the Input.

Tell the person you are talking to "that you need to meet someone on another Repeater and could he meet you there." If you are on Two Meters use the up one, mid one, or down one, not the Frequency. Do not give the jammer any information to help him or her follow you. If the problem persists, the more information we have compiled, the easier it is to locate the jammer. We will keep this information in confidence

and try to develop a profile of the jamming activities.

When we have sufficient information we will file a complaint with the ARRL Official Observers program. Try not to be a target for the jammers. Do not use the same Repeater all of the time. Move around, and try to keep your conversation on Amateur Radio activities. This "DO NOT FEED THE ANIMALS" Policy has served us well for many years and is the main difference between some of the Repeaters in Los Angeles and the PARC Repeaters here.

Bob, KA6NZL, Has helped make measurements at our Repeater site and has agreed to build a new Repeater for the 147.130 Repeater. Bob has spent most of his life in Commercial Radio Communications. He is very familiar with the Motorola Equipment we use and was very helpful in tracking down some recent interference on one of our Repeaters. Bob, I am sure will be a great asset to our Technical team that keeps our Repeaters working. Thank-You Bob.

The time of Field Day has arrived and I would like to thank all of the people who have helped to make this years Field Day a success.

I hope to see many of you on Field Day. I will be working at the Satellite Station and will give all of you a report next month on Field Day 1996 for PARC.

73, Art, KC6UQH

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WA6QQQ to W6VR

Bob Gonsett, former WA6QQQ, applied to the FCC for a change in call letters under the new FCC "pay for change requests."

The ARRL says that the FCC re-

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ceived 350 first-day Gate 1 applications, but 85 were filed too early and were returned. It looks like Bob was one of the lucky ones and he was able to obtain the call letters of his father, W6VR, who was the driving force behind the Gonsett Radio Corporation in years past.

Since Bob's call, WA6QQQ, is still good for several years and he now has a new call, he asked the ARRL about the status of "his" two callsigns. The ARRL answered:

"You are now W6VR. FCC rules state that you may hold one, and only one primary call. I'm not sure what version of the FCC database you're using.

If it is the UALR database, it isn't well maintained; it's like a garbage dump--information comes in, but doesn't go out. The ARRL maintains its own copy of the FCC database and your old call does not appear.

I can see this as a problem for people in the future since vanity calls are now being issued. The UALR folks should have some sort of disclaimer."

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Ham Help Net

Art McBride KC6UQH@amsat.org

I recently took a problem to the Ham Help Net and I am happy to announce that it does work. I needed a program to calculate the azimuth of the sun at different locations for several times during the day to calibrate my antenna for the ATV contact with Ray, N6RE. Joe, KD4UZH, came to my rescue with a shareware program called "Geoclock".

The Ham Help Net is now on our 146.730 Repeater at 9:00 P.M. The

PARC BOARD

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MSh: Ralph Powel, KC6WAN, 727.7415
Mem: Mike Doyle, AB6QT, 742.1573
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VE Program: Rusty, AA6OM, 747.5872
(2nd Sat.ea.mo. Carlsbad Safety Center)

ATV/Edu: Bill, KB6MCU, 582.2313

Editor: Stan Rohrer, W9FQN, 749.0276

30311 Cir R Ln, Valley Ctr CA 92082

W9FQN@amsat.org

or KA6FPS@sdcoe.k12.ca.us

PALBBS: Norbert, KJ6ZD, 630.5538

145.050 PktSimplex, 146.700-PktDuplex

WORLD WIDE WEB: Frank, KE6WOE

<http://www.electriciti.com/parc>

Ham Help Net is there to answer all questions involving amateur Radio. It is the surviving Net merged from the License Theory and the Computer Help Net that have been discontinued because of a lack of interest. With the 9:00 P.M. time slot on 146.730 we have experienced a large number of check-ins to the net.

Ivan, N6OLE, the Grand Master of knowledge with his inquisitive nature has done an excellent job as net manager. He has assembled a great group of Net Control Operators Mike AB6QT, Dave KC6YSO, Barry KE6(xyz) (XYZ), and Joe N6YMD have done an outstanding job in running the Net. Ivan fills in on months that have a fifth Thursday. Please stop by and check-in.

We always have a need for participants to help answer the questions asked. The Ham Help Net is open to all Amateur Radio Operators and supports at least three of the five purposes of Amateur Radio. I talked to Ivan this week and he has not been feeling well, but he still listens to the net and I hope his health improves. We all miss hearing him and his sharing his experiences with us.

Thank-You Ivan and we hope to hear from you soon.

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10.4GHz ATV Record?

Art McBride KC6UQH@amsat.org

I am pleased to inform you of a 204.38 Statute Mile Contact between Ray Clancy, N6RE and myself, Art KC6UQH on 10.400 GHz F.M. ATV, using a 22 Mhz Bandwidth on June 8th, 1996 between 6:00 and 7:00 P.M. PDT.

Ray was located on a 300 foot bluff 2.5 Mi West of Gaviota State Beach near Santa Barbara, Ca. and I was on a 200 foot bluff at the Torrey Pines Glider Port near La Jolla, Ca. Our Grid Squares were CM94UL and DM12IV respectively. Ray used a 2' dish for transmit and a 3' dish for receive. I used a 3' dish for both transmit and receive.

The feeds are 4 turn Helixes wound left hand for right hand circular polarization. I used a circumference / wavelength ratio of 0.8 to give me a -12 Db

illumination at the edge of the dish. The helix was matched to 50 Ohm impedance using a 1/4 wavelength of 95 Ohm line.

The calculated focal point is at the first turn of the Helix from the reflector made from a 3/4 " copper pipe cap with the length of the cap lip machined to 1/4 wavelength. Calculated gain of the antenna is 37 DBIC and I hope to confirm this on a antenna range this Summer. Both sides used P.A.'s and LNA's from surplus Qualcomm Omni Tracks Satellite Communication Equipment, modified for 10.4 GHz operation.

Estimated power out was +28.5 Dbm and a 1.5 Db noise figure on the front end. Estimated feed line loss was 1Db. Ray used a Panasonic Ku Band TVRO receiver Model C-1000 with an input first IF of 1200 Mhz. A Gunn Diode First L.O. and a Anaren double balanced mixer followed by a 30 Db Gain Qualcomm IF preamp for receive.

Bandpass filters are dual 1/2" copper pipe Cap filters using 2-56 screws for tuning between the LNA and the first Mixer. My receive system used similar components except I used a KLM Sky Eye V receiver with a home-brew first IF converter at 744 Mhz. For the transmitter Ray used a Qualcomm 2.6 GHz PLL synthesizer with a times 4 Multiplier (modified from a times 5). He used a home-brew 6.0 Mhz audio Subcarrier and a video Pre-emphasis network to F.M. modulate the VCO in the PLL unit.

I used a home brew 915 Mhz F.M. ATV Transmitter, a Gunn Diode LO., another Anaren Mixer and dual pipe Cap Filter for my exciter. We both have video Tape (VHS) of our reception of each other and pictures of our equipment.

Signals received at Gaviota ranged from nothing to P-4 on peaks, and nothing to P-4+ were received at Torrey Pines with an average of P-3. Fading occurred with a period of 40 to 50 second intervals indicating we were using the evaporative duct for part of our QSO. Antennas at both ends showed that a down tilt of two degrees was optimum for best performance. At the time of contact haze appeared to be down to

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the ocean with less than 5 mile visibility towards the signal path. Signals seemed to improve as Sunset approached.

Our first attempt at five P.M. was unsuccessful and we were not able to make contact directly on two meter coordination at that time. We were able to copy each other on two meters directly after 6:30 P.M. when I had received Ray's picture on 10.4 GHz.

Subsequent tests here indicate that my transmit level had dropped to +18 Dbm which accounts for the poorer picture received in Gaviota. It also tells us that a longer contact could be made evaporative duct mode on the 10 GHz band with the current equipment.

Credits: Thank-You to Mac KD6UIN who helped Ray at Gaviota, and N6ALA who helped me at Torrey Pines. I would also like to thank the San Diego Microwave Group especially, Kerry, N6IZW, ED, W6OYJ and Chuck, W6IGP for the technical support and hardware that helped to make this contact a success.

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Packet News

Ted Stork, KD6AKT, PALBBS

I will have my portable packet station at the July meeting for those interested in Packet. It will be set up in the ARES emergency room across from the meeting hall. If you have questions, please feel free to stop in for "free" advice.

The Tuesday evening Packet Voice Net at 9pm see you there!

For Sail

W6NWG@amsat.org



Phone or send ads to your editor before the 20th of each month. Copy your ads after the form used here in. Personal equipment ads are free to members.

Commercial Ads: \$2/column inch/mo. We will "squash" your copy to the number of inches bought. Ads billed Feb., May, Aug., & Nov.

Ads older than 4-months might be "bumped" for newer ads!

NEW ADS.

(6-4)BNC connector male/female combo (F. chassis mt, M. RG59u coax) \$5+postage: Steve W2MRM 451-5690 SD.

(6-1)ICOM FT-51R 2m/440 dual band HT w/remote hand mic. \$400: Chuck KE6TXQ Pager 1-800-804-9168 Crisbd.

(5-26)TS-130 w/PS-30 & assoc gear \$BO: Ed KW6Z 789-2342 Vista.

(5-23)Estate ICOM 751A \$800; MFJ-1278 \$BO; MFJ-Delux Versa Tuner II MFJ941D \$75; Bencher Paddle BY-1 \$35; Brass Straight Key \$BO; AEA Morse Machine \$BO; RX-100 Noise Bridge \$35: Mike KD6VHI 749-8888 VillyCtr.

(5-22)Estate Sears 6hp Roto-Spader \$150; 524D Tektronix Scope \$BO; Underwood Typewriter \$BO; Chippewa Wood Chipper \$300: John WB6IQS 727-3876 Vista.

(5-18)Butternut Ant w/cables etc; Hustler ant w/mount/masts + assortment of tips/coils 10-80m: Joe N6RVO 433-6885 Ocsd.

(05-15)Kenwood TR-7800 2m xcvr, 10-15w w/mic/rack, no PL, \$65: Wayne W6RWV 724-0777 Vista.

(04-25)The Club has inherited copy machine, XEROX # 1038. But it needs some TLC. If you or friend or acquaintance have some knowledge of this machine we would appreciate your giving it some attention. We have the User's Guide which goes with it. It can be seen & examined at the Qth of KC6WAN, very near the intersection of Freeway #78 and Rancho Santa Fe in San Marcos: Ralph KC6WAN 727-

7415 Vista.

(04-24)Yaesu FT-5100 2m/440 xcvr like new w/decode & mobile quick release bracket \$550: Dinh KE6KDP 941-1529.

(04-18)Kenwood TS-830s xcvr ex cond \$500 OBO: Tom KE6HRL 741-1364 Esc.

(04-11)"Health Spa" (\$1,100 value) (sell or trade) 8' portable octagon fiber glass seats with jets/spray, 110V, heater cover & gazebo lattice for an HF Ham mobile linear or etc.: Larry W7HKI 439-5855 Ocsd.

Ads sent to the club box 73 in Vista can only be given to your editor twice a month so send them to 30311 Cir R Ln, Villy Ctr, CA 92082-4806.

(04-09)Tower 54' crankup + new control motor + HiGain control Unit + HiGain Quad all for \$500 cash: Bob KO6EM 728-4835.

(04-02) Kenwoods a)930 w/tuner \$950, b)220 Scope \$200, c)930 spkr, c)TS130 w/war w/b \$350, d)TS130 tuner w/b \$75, e)2m/241 A/B \$300, f)7850 mobile 50w w/b \$300; Yaesu FL2100 b/ex tubes \$400; RTTY Commodore cpl AEA monitor \$300 & 1540 printer; MFJ 9410 tuner (E) \$100: Larry W7HKI 439-5855 Ocsd.

(04-02) PK64 Pkt w/commodore keyboard \$100; Bencher key w/tet keyer \$100: Larry W7HKI 439-5855 Ocsd.

(02-24) Hy-Gain 4el mono bander w/balun \$100: Paul WA6IPF 726-5007 Vista.

(Please let me know if you buy or sell so I can take out the ad -Ed.)

WANTED: A few good men/women.

(5-21)Dead or Mal-functioning DEO QSK-1500 RF Pin Diode Unit: Dennis N6KI 271-6079 Sandago.

(05-4)SP-520 spkr cabinet; PC-1 phone patch: Henry WB0YCQ 722-5394 Ocsd (leave message).

(04-24)Scanner, Realistic Portable Pro 38, 39, or 43; base 2005 or 2006; Bearcat 760XLT or 8500XLT: Bob KD6VAN 431-5907 Carlsbad.

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Model PT-340 \$99.95 + tax + \$6 S&H

Please check our complete ads in QST, 73, CQ, and World Radio magazines.

(4-14) need information of the modification of a communications monitor, CE-3, for "opening" up the 70cm band & need cover door for the unit: Mike AB6QT 742-1573 Escondido.

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Swapmeets

Dennis Vernacchia, N6KI, t_dverna@qualcomm.com

I have not been attending the Swapmeets lately but here is some info I have. For LA area meets (De Vry, Pomona, Fontana, Seal Beach etc.) you might want to get the latest from Bill Smith-KB6MCU or Gene Swiech-WB9COY, gswiech@qualcomm.com.

Santee: 1st & 3rd Sat, Santee Drive-in Theatre, Santee, Woodside Ave, West side of Hwy 67. 7 AM til ?? (it appears the 1st Sat. might have the most amateur gear -Ed)

TRW: Last Sat. every month, Redondo Beach, corner of Aviation Blvd & Marine/Compton Ave. Take 405 Frwy to Rosecrans exit. Go West on Rosecrans, left (South) on Aviation to Marine/Compton Ave.

Swapmeet and Parking lots are behind Gas station. Seller's with pre-registered spaces setup at 7 AM. Non registered at 8 AM. Lots clear at 11 AM. Fee?? (If anyone has additional information on SOCal swapmeets, please send it to your editor -Ed)

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Monitor Stations

It is very difficult sometimes to determine if we have problems at the repeater site on Palomar Mountain especially when there is a slow degrading of the performance of a repeater over several months.

There are also times when we want to make changes in antennas, their locations, or their main direction of radiation but we do not have a reliable way of knowing just what effect our changes have made on our signals all over SDCo.

One of the ways we check is to pick a repeater (ie 146.73), measure its signal strength and then compare all other repeater signal strengths to that repeater.

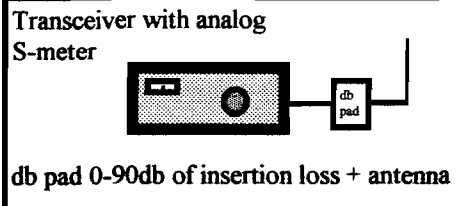
In actuality, we try to use a receiver which has the old time meter type S-meters and not the newer LCD bar displays.

An attenuator which can step from 1db to 90db is inserted between the receiver and the antenna. Then the attenuator is adjusted inserting db of attenuation until the analog meter reads at a specific marking on its scale which should be somewhere near its mid range for the 146.73 repeater.

All other repeaters are then monitored and the number of db inserted or taken out is recorded so that we see how strong each repeater is relative to our standard, 146.73.

This information is then logged so that the next time we run tests we are able to compare readings and see which repeater is worse relative to the other repeaters.

PARC is looking for old time 2m, 220 rigs, and 70cm transceivers which have bad transmitters (we only use the receivers) to be used in the monitoring of our repeaters on Palomar Mt. Contact Stan-W9FQN if you have something we might be able to use at a rea-



sonable price.

Bob-W6VR (former WA6QQQ) has the capability for making these measurements but with his move to Fallbrook we are not sure that he "sees" the repeater site as well as he did in Encinitas. **Stan-W9FQN** makes measurements from Valley Center but that is for North County and his equipment is not available while he is at the repeater site.

We could use some monitor stations in mid and south counties which would take readings 2-3 times per month and when we make adjustment or changes at the repeater site in power or antennas.

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\$300 Bar-B-Q (history)

John Kuivinen WB6IQS@amsat.org

A long time ago we only had one repeater and a control receiver on the mountain (possibly early 80's -Ed). The two meter 146.73/.13 Motorola Micor voice repeater was alone in it's bunker and attached to a short 30 foot mast. The Micor repeater had an all solid state transistor power amplifier and it consisted of a pre-driver, drivers and final transistors.

We were more innocent then about the dangers of lightning. We had the coaxial cables enter the building from the ground level via an underground PVC plastic tube, but we didn't have any sort of lightning arrestors. The antennas were grounded to the tower, but the antenna cables were only grounded at the radios to a chassis earth ground inside the building.

After a brief storm we noticed the two meter repeater was very low in output power. It operated but only with good antennas and from the best locations. A real elephant radio, all ears and no mouth.

I went up to the hill with Bob Findley, a Motorola repair technician (now out of the area) and we looked at the power output. Hmm, it reads a little

low. Power output was about 50 mW (50 milliwatts) not the normal 35 watts that it should be. That is about 35 dB low in power and that is about 6 S-units in RF strength. It was operating, but not by much.

All four final transistors were the equivalent of 0.001 ohm resistors. The two drivers were about the same. The only working solid state devices in the transmitter was the pre-driver transistor and it was only leaking RF out by accident.

The final transistors were about \$45 each plus a little less for the two drivers and for good measure the pre-driver was replaced. We lost about three days on the repeater. In total \$300 in parts for a few microseconds of overload. Was it a direct strike? I don't think so. The repeater receiver still worked and the control receiver was OK.

Did we get more serious about grounding and bonding after that, you bet-chah. Imagine a direct strike where your shack looks like a sci-fi spaceship when it sees a monster; They never put any circuit breakers in those things.

The moral of the story. Don't let your guard down about grounding and bonding. It can get-chah.

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Fallbrook H.S. Donations

Fallbrook HS will take any and all donations of amateur radio equipment. We need radios, a Tri-band beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

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SCOPE Folding & Stapling

Stan Rohrer W9FQN@amsat.org

Your editor starts work on each month's SCOPE immediately after he comes home from the Folding and Stapling Party. Sometimes at the end of the month he has to "cut out" (or put on hold) many things typed in during the month and put them in "hold" files. Other times he has to consult "on hold files" for periodic items: experts, DX info, amsat.org addresses, net controls, control operators, last months culls, etc.

The pre-folding-stapling of the

SCOPE starts with me copying down all of the 30-50 "extra" SCOPE addresses that we send to each month onto labels. I then contact **Ralph-KC6WAN** for the number of SCOPEs which need to be mailed for the month.

Ralph has to enter all new members into the data base and then run off a list of all who are to be sent the SCOPE.

The SCOPE is always taken into the printer on Monday, the week before the club meeting, and your editor orders from **PRINT WORLD** (Escondido) the SCOPEs needed for that mailing: membership list, advertisers, ARRL Officials, info copies, newsletter exchange copies, etc. The cost is running about \$300 per month for 12 pages.

The SCOPE used to be printed free by a club member.

Harry-WA6YOO usually picks up the SCOPE on Tuesday at 11:30am and delivers it to the folding and stapling location. It used to be **Jack-KI6JM**'s QTH before he became ill and it now is at Ralph's QTH.

The SCOPEs are then folded in half usually by **Lloyd-W6TFB** and his charming wife, **Lisbeth**; **Larry-WA6UTQ**; **Jack-KI6JM**; **Bernice-N6WQR**; and **Art-KB6YHZ**.

Lloyd has probably been doing this more than anyone in the club since your editor remembers seeing him in the very early 80's at these parties and Lloyd pre-dates that by many years. The only one around that remembers those early years is **Ralph-K6HAV** who has been almost everything in the club but has been keeping really quiet these past few years after moving to Salt Lake City. We sure could use some history lessons, Ralph!

Harry does the stapling (*and some talking*) and then carries his right hand around in a sling the rest of the week.

Depending upon who is there, **Anita-KB6YHY**, **JerryC-N6TCB** (& her friend), and/or **Jo-KB6NMK** have the appealing job of taking off the labels in Zip code order from the lists that Ralph has printed up and affixing the labels to the back of the SCOPE.

While this is going on Ralph is taking care of the many little problems and adjustments that always seem to pop up

during our "party." Ralph also supervises the jokes that are always told and usually comes in second to Jack's jokes (*your editor has shed many a tear from laughing so hard at these events*). Harry also keeps us up to date on what the president is doing (Clinton) ..or not doing.

During this time Stan has attached 30-40 labels on the "info" SCOPEs, and started to fill out all of the paperwork (6-pages) connected with the monthly mailing. This involves knowing the number of SCOPEs being sent: SDCo, LA, California, and other states. Each group has its special postal rate. We have to keep track of every SCOPE published by destination and weight. The bill usually is around \$75-85 for 900 SCOPEs at .0625 pounds (abt 1oz).

Next, "extra" SCOPEs must be integrated into the ZIP Code order with six or more SCOPEs rubber banded, and the rest grouped by City, State, 1st three digits, etc. Its really fun!

The SCOPE groupings are then placed in 4-5 postal bags which Ralph takes to the Vista Post Office around 2-3pm.

From there on we are not sure what happens ...or why!

If you would like to join this zany group sometime, give Ralph (727.7415) or Stan (749.0276) a call for up-to-date information. We can almost always use extra help and you can usually count on the fun and games starting at 12pm and ending at 2pm.

(PARC history)

+ + + + +

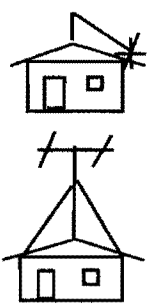
Rosters By E-MAIL

Ralph Powell, KC6WAN@amsat.org

You can now have a roster by email. Just contact me by phone, 727-7415, and give me your email address.

The roster will be sent as a file separate from an email message. It will be a "universal" file in that you will use a DOS command "TYPE" to view it rather than your Word Processor.

You'll be able to print it also. It will not have field separators therefore if you import it into your word processor you'll probably get garbage. For you fellows who have used Windows so



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!

Radio systems installation, repair and removal, and interference resolution.

Edward Ross, N6GZI
(619)542-1405

Antenna
Specialties

long you have forgotten DOS, you'll get some instructions with the file. It's yours for the asking.

+ + + + +

Workparties W6NWG@amsat.org

Field Day

(5-21) **Frank-KE6WOE** conducted a tour of the FD site looking at possible station locations and equipment needed. He was assisted by **Stan-W9FQN**. Others were **Rod-KJ6SN**, **Merrit-N6LLO**, and others?

(5-26) The following showed up at the FD site to check out what would be needed: **Rod-KJ6SN**, **Merrit-N6LLO**, and **Juan-KE6KNN**. Stan conducted the tour.

(5-27) **John-WB6IQS** sorted out most of the club's rotators, control boxes, and cable checking them as he marked them. Rolls of coax cable were taken back to his QTH to be checked.

Repeater Site

The next work party will be Sunday, **July 7th**. Meet at Mother's Kitchen parking lot at 10:30am. Bring 5gal of water for the little trees, your lunch and drinking water.

Some possible projects: roof leak, fencing, weeds, painting, 6m tower work, install "deadmen", security system, water small trees, clean inside of repeater buildings, and other items too humorous to mention. Your help would be appreciated!

(5-) **Mike-AB6QT** visited the site and replaced the 147.13 autopatch interconnect board with a spare board but the problem persisted.

(5-) **Stan-W9FQN** went to the site

and tested several other autopatch substitutions with 147.13 and it appears as though the problem of non-consistant operation might be due to distortion in the .13 receiver which was replaced in February.

(6-9) A very pleasant day on Palomar Mountain with a lot of necessary items being completed.

Dennis-KE6MQC and **Zac-KE6MQB** check the 12 guys and found that several of them had changed in tension as much as 20 pounds from the original 100 pounds a month ago. They also along with **David-KC6YSO** recalculated the face of the tower and found that it was facing 221 degrees or two more than originally thought. This was in good agreement with the original 220 measurement of many years ago. David also made some adjustments to the 6m repeater and looked at the possibility of installing a crankup next to a tree for the 6m antenna.

Steve-KD6WRL and **Less-KE6QIM** measured the heading of each directional antenna so that we have a better idea of where our maximum signal is being aimed. Steve also calculated the torque required to tilt over the 220 club antenna pole which took a lot of time. Less removed that tarp from the freezer roof along with the tower sections holding it in place.

Art-KC6UQH, using a sun compass and calculation, measured 221.5 degrees for the tower face, and examined the autopatch system and discovered that some distortion of signals were being passed to the autopatch causing erratic operation. There was some reason to believe that a user's PL was sneaking through the repeater and possibly over powering the touch tone decoder under certain conditions. He was assisted by **Bob-KA6NZL** who will be building up at new 147.13 repeater for the club with items which the club presently has in its possession.

Mike-KD6VHI was high man on the tower insulating the last crossarm, re-clamping several heliax holders, and adjusting the reflector on the 439.05 packet backbone repeater so that it was out of the near field of the 147.075 repeater.

In addition the little trees were watered, the freezer roof inspected for a previous leak, and plans made by **Stan-W9FQN** (and others) for future work parties. We were visited by **David White**.

Other

(5-) Stan picked up a 4el 10m beam, a 3-section crankup tower, a 20' section, and a 10' roof mount from an estate for club use (*probably at the repeater site*).

+ + + + +

Repeater Technical

John Kuivinen WB6IQS@amsat.org

The following is an update on "behind the scenes" work being done:

1) **Mike Doyle, AB6QT**, is working on "drop-in" transmitter/receiver units for the 146.73 repeater. Status: 95% done with installation towards the end of July.

2) **Mike** is also working on "drop-in" transmitter/receiver units for the 449.425 repeater. Status: 60% done.

3) **Bob Wickord, KA6NZL**, has accepted the challenge of making up an entirely new 147.130 repeater. Status: just started.

4) Earthquake detector by **David-AC6OA**, on 146.730. Status 97% done with installation sometime in early July.

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Display Board

Sybil Allbright, PARC's VP, has made up a PARC display board with PARC logo, Field Day pictures, Ham class schedule, Picnic pictures, Challenger Jr. H.S. pictures, and repeater site pictures.

The board is 2'x5' and professionally done. It shows a lot of thought and effort. Thanks **Sybil**.

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PARC Nets

(updates)

Net managers and **net controls** should make note of the following **changes** in the net preambles if they have not already done so:

1) change 5 autopatches to four.

2) add CW contacts on 147.075 after 10pm.

3) drop 147.175 from the preamble. We can still use the repeater but it is not

a general coverage repeater like PARC's repeaters.

San Diego Co Traffic Net (SDCTN)

Monday thru Friday CW Nets

Packet Net

Thursday Evening Ham Help Net

+ + + + +

Editor

Stan Rohrer W9FQN@amsat.org



In changing over from the Radio Shack Computer to the IBM I am becoming aware that some information provided to me by members has become lost or misfiled.

If you sent me something which has not been published yet, please remind me or send it in again to my home address in VC.

My IBM cannot read disks prepared on my old 1981 RS DOS and I have not taken the time to modem them over to the IBM via the RS-232 line.

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CW on 147.075

For the next several months those wishing to practice "on the air" CW contacts may do so on the 147.075 repeater after 10pm each evening.

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Autopatches

Jerry Houser WB6FMT@amsat.org

Autopatch status:

146.730 ... normal, on 7am-11pm

147.075 ... normal, on 7am-11pm

147.130 ... problems with many sigs

449.425 ... normal, on 7am-11pm

Those needing an autopatch after 11pm should contact me or **Stan-W9FQN**.

We hope to have the problem(s) on the 147.13 repeater autopatch isolated and fixed by July 15th. We suggest you use the autopatches on 147.075 and 449.425 since 146.73 is heavily used during most of the day.

+ + + + +

Project Help Needed

We need 1-2 55gal drums for our repeater site irrigation, help with earthquake locations, 1.5" galvanized steel pipe for antenna mounts, etc.

"Investing in an extra year with PARC is better than putting your \$\$ in Orange Co.!"

PARC's Top 20 DXCC

W6NWG@amsat.org

DXCC worked(confirmed), states(wrk-conf)

1. WA6YOO 318-316-50-50
2. WA6YOO 314-313-50-50
3. AC6V 316-307-50-50 Mix 8w
4. AC6V 311-303-50-50 Phone
5. WA6YOO 234-233-??-?? CW
6. WA6YHB 202-194-50-50 CW
7. WB6NBU 197-180-50-50
8. AA6EE 200-180-50-50
9. AC6V 152-149-50-50 CW
10. KI6JM 193-136-??-??
11. WA6YOO 120-120-??-?? RTTY
12. N6SMW 150-109-??-?? Mixed
13. N6ELP 138-105-??-?? RTTY
14. KC6QXU 095-086-50-50 10m
15. W6EYP 037-013-50-24 10-20m
16. AA6TR 001-???-??-?? 100mw
20. urcall? - - - -

Please send in your updated WORKED-CONFIRMED & STATES info to UR Editor. Pse break down by Ph/CW/Mixed if possible.

WORKED ALL CALIFORNIA COUNTIES

1. WA6HYB 58-58 40 CW
2. WA6HYB 32-32 1w CW
3. W9FQN 01-01 2m FM
10. - - - urcall?

W.A.C.C. rules and information can be obtained from K.O. Anderson, K6PU, POBox 853, Pine Grove, CA 95665 or contact Dan-WA6HYB. Dan suggested that with the sunspot numbers dropping that this might be an award that some of our members might want to work towards. It also is a good way to see where towns and counties are located in our great state of California.

+ + + + +

Experts

(Loco and OtherWise 6-1-96)

W6NWG@amsat.org

One of the advantages of a large club is that we have a great number of experts in many areas.

The following club members have considerable knowledge in the areas listed. If you have questions, please feel free to contact them:

Accounting/bookkeeping SKM6WG
AMTOR/RTTY HF WA6YOO
Antennas KC6UQH WB9COY

KB6MCU

Antennas BoatElect KC6UQH

ARES KC6YSO K7DCG WA6YOO

KE6WOE

ARRL WA6YOO

ATV KD6TLF KC6UQH KB6MCU
WB9COY

Autopatches WB6FMT W9FQN

Aviation History AC6V

Badges PARC W6OLQ KC6WAN

Beams HF N6KI KB6MCU

Bilingual Ed KA6FPS

Boating Sailing W6QCA AA6TR
W6EYP

Cars(old) W6QCA AC6V

China WA6YOO N6TCB

Coast Guard Aux N6TEP

Computers C-64 WD6FWE

Computers IBM WB9RKN W6QCA
N6ZUC KD6AKT

Computers MAC AC6V

Computer TRS-80 Mod 3/4 W9FQN

Dancing AC6V KM6MW

DeskTopPub KE6JOJ KC6CZO

KB6NMK W9FQN

Direction Finding KB6NMK W9FQN
N6UWW

DXing CW KA6Q AA6TR WA6YOO

DXing SSB WA6YOO KA5Q N6KI
AC6V

Earthquakes AC6OA W9FQN

EmergencyVolAirCorps KH6TL

Fishing \$KE6EDC(KM6WF)

Fire Patrols(RedFlag) W6HCD

Flying Smaritans W6HCD

FM Deviation Cks AB6LY WB6FMT

AB6QT KC6UQH KA6NZL

German N6TEP KJ6ZD

Graphics \$KB6NMK

Grounding W9FQN

Heathkits WB6IQS

Hiking KE6ZLY

Horses KF6QH

Interference KB6MCU N6GZI

Internet KC6WOE AC6V

Korea WA6YOO W9FQN N6IE

Lighting \$AA6TR

Lightning W9FQN

Marine Electronics \$KC6UQH

Membership PARC KC6WAN
W9FQN

Mexican License W9FQN N6UWW
WB6PKK

Mexican RdRaces WB6PKK
N6UWW

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*General Coverage Receiver

450 KHz to 30 MHz.

*-10 dBm exciter output for all HF amateur bands. Simple no solder components available to raise power output to 50 or 100 Watts.

*High Dynamic Range Direct Conversion Architecture with full DSP.

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Mexico Baja WB6PKK KM6WF

Microwave N6IZW KC6UQH

Mobile noise Filters KI6RF

Nets PARC W9FQN

Nets Traffic N6TEP W9FQN

Pacific Crest Trail KF6QH W9FQN

Packet BBS KJ6ZD

Packet KB6MU N6ZUC AC6V
KD6AKT

Ping-pong W6OLQ W9FQN KA6FPS

Planes Gliders KC6YOX

Planes History AC6V

Planes Model N6UWW WB6FMT

Repeaters WB6IQS KC6UQH

AB6QT KA6NZL WB6MCU

KC6YOX

Tennis KC6MQC NU6L KA6FPS
W9FQN

VE Testing AA6OM WA6YOO

WWW pages KE6WOE AC6V

(\$ = they sell their services)

If anyone would like to be added or deleted from this list or you have suggestions of others that might be added, please contact your editor.



This list was made up from the old Radio Shack Computer and some of the suggested changes might have been lost so your editor would appreciate your updates again! Thanks.

+ + + + +

Kenwood Report

Kenwood's 50th anniversary is this year and their newsletter describes some of their history. Anyone interested in seeing this anniversary newsletter should contact W9FQN at club meetings.

+ + + + +

Emergency Trailer

Jo Ashley KB6NMK@amsat.org

A.J., KB6NML, and his friend, Mike Alexander (thinking about getting a ham license) put 0.5" layer of plywood over the floor of the trailer and glued/screwed it down.

A.J. also fixed the locks (2) and took out the floor heater (not working or worth fixing), braced and patched the holes in the floor, and made a new operating table in the front of the trailer. Stan, W9FQN, hauled the trailer out to the FD site in Valley Center for the Field Day emergency exercise.

+ + + + +

Spectrum Allocation

There has been a tremendous amount of information about the proposed spectrum allocation for the 2m and 70cm Amateur bands over to commercial use.

The SCOPE will print what we should be doing as soon as "the dust settles" and clear heads prevail.

Thanks to all of you who have provided me with copies of missiles being sent.

+ + + + +

Battery Reserve

David Tennant, KD6EBY@amsat.org

The Repeater Site Emergency batteries seem to be in good condition despite their age. Bank "A" (7 cells) measures 15.07 volts and bank "B" 15.08 volts. Each bank has a storage capacity of 1,680 ampere hours (ie. 16.8 amps for 100 hours or 200 hours for both strings together). It should be noted that one repeater on transmit draws 10 amps.

Charging current is 0.48 amps for

"A" string and 0.78 amps for "B" string.

PARC has 24 brand new cells to take to the site as soon as we have a place to put them.

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Hiker's Net (and hikes)

The Friday 9pm evening hiking group on Saturday the 8th climbed Middle Peak in the Cumaca Mountains just off road 79. The hike was thought to be 4 miles but there is good reason to believe that it ended up being eight.

We probably saw the largest trees in SDCo with 8-9 feet in diameter being the largest.

Those attending this hike were: Glenn-N6QLY, Irvin-WB7ATT, Tom-KJ6NA, Susan-N6QDB, Kirk Shea, and Stan-W9FQN.

The July 20th hike is planned for someplace in SDCo. (check the net).

All amateurs and their friends are welcome to participate in these hikes which are held on Saturday's on a rotational basis (2nd/3rd & 4th weekends). Its a great family adventure!

+ + + + +

Letters to Editor

..Ralph, here is my lyr renewal ..don't use my Ham Radio much and am one of those blankety-blank inactive members ..however, I'm 78 & beginning to think like the late George Burns who said, "at my age, I don't buy Green Bannas." ..Ernest-KD6ASH

+ + + + +

FCC Creates FRS

W5YI Report via Milt-W6MK

The FCC has established the first new Citizens Band Radio Service since the 27MHz CB was created. The Family Radio Service (FRS) is a category within CB. Channels are as follows:

1. 462.5625 2. 462.5875 3. 462.6125
4. 462.6375 5. 462.6625 6. 462.6875
7. 462.7125 8. 467.5625 9. 467.5875
10. 467.6125 11. 467.6375 12. 467.6625
13. 467.6875 14. 467.7125

FRS antennas must be permanently fixed to the FRS radio. There will be no external RF connector.

FRS Rule 1 - ..anyone, any age, no

license, must share channels, ...

FRS Rule 2 - ..may operate FRS anywhere in the FCC's jurisdiction, ...

FRS Rule 3 - ..two-way voice, one-way messages, emergency messages, traveler assistance, voice page, tests, ..

FRS Rule 4 - ..only FCC certified FRS radios may be used, no internal modifications, nothing attached, ...

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Emergency Twr. Bases

PARC's emergency tower bases are quite unique in that they allow the club to set up 35-45' crankup towers with a minimum of effort and a maximum of stability.

The original design was by Stan-W9FQN for the 1977 Field Day operation at the Valley Center FD site. Dennis-N6KI, and his dad, Orlando-N6QVW, helped greatly with the fabrication of these units.

Materials needed:

2 ea. .25" rectangle plates 1.5x1.5'

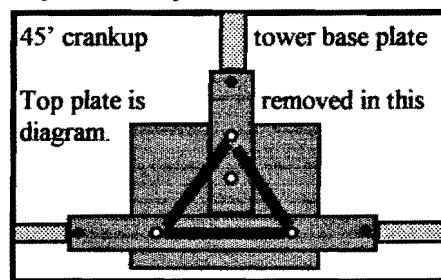
1 ea. 3" pipe 4.5' long

1 ea. 3" pipe 2.5' long

3 ea. 2.5" pipe 8-12' long (inserts)

3 ea. 0.5" eyebolts 4.5" shaft + 2" eye

Attach eye bolts to tower base holes and use as guide for drilling the three holes in the large metal sandwich plates (both plates). You probably could get away with only the lower base plate.



The picture shows what is sitting flat on the ground with the top metal plate removed. Imagine the tower sitting vertical to this page. Those of you at Field Day saw the construction used.

Use a metal plate as a guide to drill holes in the longer 3" pipe. Put the sandwich together and insert the upper 3" pipe to see where the remaining two holes need to be drilled. When this is completed, put the complete sandwich together and attach it to the tower base.

For safety sake it would be wise to drill holes in the end of each 3" pipe so

HAM RADIO OUTLET

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and
others too
numerous to
mention!

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Directions: On I-15, take Clairemont Mesa Blvd. off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and HRO sign. Be sure to see our equipment in action on real antennas.

that it can be pinned to the three
inserted pipes.

+ + + + +

Membership Info/etc.

Ralph Powel, KC6WAN@amsat.org 727-7415

Recently many of you have sent me
your email address one way or another.
Thanks lots. I'm keeping them on file
and will put 'em the database in the near
future. Just call me on the phone with
it--that's the least costly way. BUT
please don't guess .. recently I had 3 bad
ones out of 5! It sure would be nice if
you all would get the **URCALL**
@amsat.org addresses!

Check your label to see if you're due--
many fall due in July. Since last
month's column about 70 "July
maturities" have paid up. Thank You!
But I have almost 200 more July-ers not
paid yet. Let's not miss a single issue of
our great newsletter!

Welcome, you new members. Nope,

the mailman didn't miss you--we do not
confirm new memberships except through
this newsletter or your SASE. If you got
this, you're in!

New members--look here next month to
see your call sign in print.

+ + + + +

Antenna Wrk Party

John Kuivinen WB6IQS@amsat.org

(6/9) The 5 element 15 meter beam was
modeled by Gene, WB9COY, and it
looked very good ..dipped at 21.25 Mhz
and had a VSWR of < 1.5:1 from 21.00 to
21.50 Mhz. We polished all mating surfaces
and use No-Ox electrical coating on the
parts before assembly.

Gene's 20m Cush Craft had a feed
problem with a crummy SO-239 that was
falling apart, typical Cush Craft. We
fabricated a new fitting from a good quality
Teflon barrel fitting and soldered in a
banana jack for the Gamma Match. The
antenna elements had been retuned a bit so
we moved things around and all should be
OK now.

We did the same trick on the 4el 15m

beam with the antenna matching and SO-
239 as on the 20 meter antenna. We ran out
of time and did not set it up, but according
to Yagi Optimizer this was the perfect setup
for 15 meter phone. Over the years some of
the element parts had been swapped and
parts of a reflector were in a director, and
visa versa. We reset the elements for the
phone band but ran out of time and did not
set it up to check the tuning.

Juan, went down the hill unrolling the
cable reels and about 50% of the cables
were checked out mechanically for
abrasions. We ran 3 watts of two meter
energy down the line and had slightly more
than a 3 dB loss. I was getting about 1.2
watts at 65' and 1.0 watt at 100'. A little
more loss than I expected, but they were
very consistent. All the shields were
soldered, but some were better than others.
Juan is of the opinion that we should redo a
few of the fittings with new connectors or at
least re-melt the solder on the existing
connectors.

Gayle, KM6WF, at a car accident
calling home for several slightly injured
students.



"...this is an amateur radio station and
you will not be able to talk while I am
talking so when you are finished
talking, I want you to say OVER,
over."

"..... is Johnny hurt?
OVER OVER"

"..... should I come and pick him up
OVER OVER?"

".....ok, I will pick him up at school
OVER OVER."

".....Bye, **OVER OVER**"



GPS Display Kit

- displays lat-long, time, number of satellites
- 2x16 LCD module with LED backlight
- connects to GPS receiver serial output
- recognizes NMEA 2.0 GPGLA lines
- computes and displays 6-digit grid square
- low current draw (13mA without backlight)
- complete kit with PC board for \$45
- use as output for Trimble "mushroom" or
as a remote display for handheld GPS unit.

For more information, or to reserve your kit,
contact J. Goldberg, KD6PBH, via internet:
j@harper.com; voice: 619.990.9046



July Microwave Rpt Pg1
10.4Ghz Record? Pg4
For Sale Pg5
Field Day Report Pg6
PostOffice Probs Pg7
Experts Pg 9
PARC top 20 DXCC Pg9

**Check new autopatch
information on page 7.**

June SCOPE helpers: Ralph-KC6WAN,
Lloyd-W6TFB & Lisbeth, Harry-
WA6YOO, Jerry-N6TCB, Jo-KB6NMK
and Stan-W9FQN. Started at 12pm and
ended at 2pm. We could have used extra
help.

Renew Now!
Please consider
renewing for
several years.

SCOPE, US Postoffice #076530
 Published monthly by PARC Inc.
 Membership \$12/yr. including \$3 for
 SCOPE inside SDCo.(outside \$4).

 (if checked) LOOK AT ATTACHED AUTO-PATCH SHEET. NOT CALLING PROPERLY!

POSTMASTER: Return to—> SCOPE
P.O.Box 73, Vista, CA 92085-0073

2nd Class Postage Paid
 Vista, CA 92085-9998

Member only if membership date is current on label.

Phone Codes →

Deliver to →

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| Membership Application | Dues \$12 |
| Amateur | (circle) |
| Call | Family \$21 |
| Membership: New / Renewing (circle) | |
| First | |
| Name | |
| Last | |
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| Phone | |
| Date Ham | |
| License Expires | |
| License Class | N T T+ G A E (circle) |
| Family Membership (name + call) | |
| | |
| Sponsor's Call | |
| (not required) | |
| E-mail Adr: | (07-96) |

PARC NETS (16/37)

All 146.730 8:00pm Traffic Net (SDCTN)

All 147.075 10-11pm MCW contacts

All 147.130 10+ pm King Henry's Net

(open to all facetious amateurs)

Sun. 146.730 8:30am AREmergency Service

Sun. 146.730 10:00pm Sailor's Net

Sun. 147.075 8:45pm MARA Net

Sun. 146.730 9:00pm This Wk in SDCo.

Mo. 147.130 6:45pm EVAC (2nd/4th)

M-F 147.075 7:00pm Morse Code Net

Mo. 146.730 7:15pm RACES sub Net

Mo. 146.730 9:00pm Microwave Net

Tue. 146.730 9:00pm Voice Packet Net

We. 146.730 9:00pm Spanish (2nd/4th)

Thu. 146.730 7:00pm Young People's Net

Thu. 146.730 9:00pm Ham Help Net

(electronics, computers, antennas, license theory, etc.)

Fri. 146.730 9:00pm Hiker's Net

Mail the application (or copy) with your check to PARC, P.O.Box 73, Vista, CA 92085-0073 or give to our membership chairman at meetings. We prefer checks: you have a record.

Dues are \$12/yr. including \$3 for SCOPE (\$4 outside SDCO), or \$21/yr for a family all living at the same address. Consider paying for 2-3yrs at a time to reduce the work for the membership chairman.

Name, call, and complete address are required. Telephone number is required but may

**OPEN REPEATERS / CLOSED
AUTOPATCHES, PALOMAR
MOUNTAIN REPEATERS (W6NWG)**

PARC Trustee of W6NWG: AB6QT

***52.680-** W6NWG, -0.5 MHz

Autopatches(4): **146.730-**, ***147.075+**

***147.130+**, ***449.425-**

PKT: 145.050s PALMAR-1 Open

(linked PARC 9600 METROLINK)

146.700- Duplex, BBS/EMG use

145.050/146.7- (W6NWG/PALBBS)

ATV: 915 wbfm, **919AM, 2441.25** wbfm

Intercom: **144.39**, PL 79.7 nbfm

OUT: 1241.25 MHz AM

OTHER: *224.38- & ***224.94-** KK6KD

***224.90-** WD6HFD(220Club)

448.00- WB6FMT(123.0PL)

***146.175+** WA6IPD, Falbrk

* = PL of 107.2 Hz

<http://www.electriciti.com/parc>

be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet, send a Self-Addressed-Stamped-Envelope (SASE) with your phone number on the inside flap with your application or the receipt of the next newsletter mailed the last week of each month will be your only notification of membership..



Scope

Palomar Amateur Radio Club Inc.

Box 73, Vista, CA 92085-0073

Aug. ***** 1996 ***** 60 Years Old
 Dues \$12, Volume XXII, Number 8
 Coffee 7pm, Mtg. 7:30pm @ Carlsbad Safety
 Center, Palomar Airport Rd. to N. on Camino
 Real (S11), east on Faraday .25mi, left to CSC.
 ++++++ Talk-in 146.730 ++++++
 4-Patches 147.075+, 147.130+, 449.425-
 Pkt, ATV, 220, PALBBS & w6nwg@amsat.org

NEWS WORTHY (see page)

- 2-Board, Members, Treas, LastMtg,
Thanks, AGOGO, YPRS, Gate 1
- 3-President's remarks,
- 4-Members, ATV, Micro, Fiar, Pkt
- 5-For Sale,
- 6-CW, Patch, WrkParty, 10.4GHz
- 7-LtrEd, Do/Don't, Micro, Surveyor
- 8-WrkParty, E-mail, RS-12, 147.13
- 9-FIELD DAY INFO
- 10-Charlie's Rules, Comp.Donations
- 11-News, Needs, FD, Auction, etc.
- 12-Application, Officers, Board, etc.

Aug. Mtg. Program

W6GIC@amsat.org

Sybil Allbright

The program for the first Wednesday in August will be on Switching Power Supplies by WA6PDP-Stuart Downs.

Show and Tell: if you have anything of interest, bring it in and tell me how much time you need before the meeting starts (limit 2 min.).

Club meeting starts at 7:30pm but many come at 7pm to talk to friends, sample goodies & coffee, join in a seminar, get a good seat, or be first to see small items of equipment being brought in for the club's sale table where the club takes 10% of the selling price.

Check 146.730- around 6pm for where some members are eating dinner before the meeting.

Please come early and help set up chairs ...and STAY a few minutes to help put them away. Your help is greatly appreciated!

Upcoming meetings:

Please send program suggestions to me at the club's POBox or my E-mail..

- (Sep) APRS Lat/Long N6JZE
- (Sep 15th) PARC Picnic (prizes)
- (Oct) Annual club Auction
- (Nov) Microwave projects
- (Dec) Christmas Equipment Mtg.

sk sk W6UQF sk sk

W6UQF-Charlie Oakes died of a massive heart attack while fixing a tire on his truck. Charlie was a legendary CW operator who participated in several PARC Field Days. He will be missed by all who knew him and by those who worked him on CW.

sk sk W6UQF sk sk

Condolences to -

KI6RM-Chuck Inskip, who lost his wife in July.

W6EYP-Warren Lincoln, who also lost his wife in July.

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Sick Call

W6NWG@amsat.org

W6INI-Art Smith, was in the hospital and is now home recuperating.

KI6JM-Jack Hanthorn, is still confined to bed with no visitors allowed.

W6TFB-Lloyd Hunt, is recuperating at home.

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New Ham?

Keith-KF6CBX and **Terry Brewer-N6UZH** are the proud parents of a baby boy, **Tyler James Brewer**, who checked in at 5.5 pounds 18.5" a few days early with his HT in hand and a week later is up to 6lbs 6oz.

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Last Club Meeting

Program was by **KE6WOE-Frank** and the heads of each of the operating positions. An excellent picture was

Aug. Calendar'96

- 03 Santee Swap Meet (drive in theater)
- 07 Club Mtg. Carlsbad Safety Ctr, 7:30pm
- 10 PARC VE Testing CarlsbadSaf.Ctr, 10am
- 11 Rptr Site Work Party 10:30am P.Mt.
- 15 PARC BoardMtg. WB6IQS QTH, 7pm
- 24 Hiker's Outing (destination unknown)

painted of what we are doing for Field Day and what remained to be done before June 21st.

In attendance were 9 guests and 114 members for a total of 123.

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Pat McKinley, N5NJU, was married to Laura, Saturday, July 13th.

Many know Pat as one of the friendly computer salesmen at Dattel in Escondido.

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FCC Phase Out?

(excerpted de Microwaves & RF, Jul '95)

House Speaker **Newt Gingrich** said recently that the FCC should be phased out over the next three to five years. Two conservative "think tanks," the **Heritage Foundation** and the **Progressive & Freedom Foundation**, have made similar suggestions.

Would the public be better served by less regulation of an industry that is growing very rapidly in complexity as well in size? Would eliminating an independent regulatory body, such as the FCC, open the US to foreign communications carriers, and is that a good idea?

130 members need to renew this month. Please consider sending in dues for 2-3 years to cut down on our paperwork. Thanks!



Would the industry rather go to court than to the FCC in order to solve its problems? Who in the federal government is better technically qualified than the FCC to represent the US at international communications conferences? Should new wireless carriers and broadcasters have the right to unrestricted use of their assigned spectrum, as the Heritage Foundation suggests, with little or no future oversight? (and would the group with the most money rule? -Ed)

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Many Thanks To:

Goodie/Coffee Table: Art-KB6YHZ and Anita-KB6YHY.

Meeting Goodies: Bill-KM6PY, George-K6YGK, Charles-N6TEP, Paul-N6ISC, Bernice-N6WQR, Mac-WB6GXR, and Norm-N6QQF..

George-K6YGK for a most interesting group of magazines.

...and who brought in the **LARGE** turn-buckle for the repeater site?

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Treasurer \$\$,\$\$\$,\$\$

Jo Ashley, KB6NMK@amsat.org May96

\$6,211 EquipReserve \$ 7,250 Checking

\$7,497 Operations \$6,358 CD's (2)

\$ 0 Cash

\$13,708 Total \$13,708 Total

Past totals: May. \$13,708; Apr. \$13,466; Mar

\$13,300; Feb. \$13,021; and Jan. \$13,388.

To be spent: Field Day, antennas, 147.13 new repeater, battery containers, etc.

Normal expenses: phones, postage, Scope, electricity, insurance, etc.

Insurance covers loss of "declared" equipment and liability. Both take over \$1,000 each year and come due in October.

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Board Meeting

Board meetings are always held on Thursday at 7pm on the week following the club meeting at various Board Member QTH's. All members are welcome.

The 7pm meeting started at 7:07 with: KC6UQH, W6GIC, KC6YSO, KB6NMK, WB6IQS, W9FQN, KC6WAN, AB6QT(ab) & WB6PKK.

Others: KE6WOE (FD), KE6BGI (FD), & WB6MCU (ATV/Training).

Discussed/Approved:

Quicken Financial Calculator program \$40; KC6YSO Net Manager of 6m nets; reading of May checks; FD bills; beam & tower problems; Republican speaking complaints; programs; KA6NZL and new 147.13 repeater; 2m corner reflector displayed by W9FQN & \$170 bill; Field Day update by KE6WOE & KE6BGI; camper donation discussed; 220 club; ATV report KB6MCU; Club Picnic; Etc.

See KC6YSO for complete minutes.

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PARC VE Program

Rusty Massie, AA6OM 747.5872

1249 Nordahl Rd., Escondido, CA 92026

SANDARC VE testing locations are now charging \$3/session. You must have exact change! PARC testing is the 2nd Saturday of each month at the Carlsbad Safety Center in Carlsbad at 9:30am. Contact me seven days before the exam date so that I can have the proper test(s) available for you.

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Long AGOGO (history)

K6HAV / K16JM / W9FQN

(7-96) June attendance 144 & Paul-KB5MU talked on the Internet ..K6QJP SK ..report on new KC6YOX 6m repeater ..FD reports ..

(7-91) June attendance 85 & Terry-W6MKD talked on Western Soma DX-pedition ..FD reports ..new building discussion with Art-KB6YHZ making estimations Tony-KA6TNI donates 16el 2m beam ..autopatches on 147.13 discussed ..Ralph Powell joined PARC and working for license (now membership chairman! -Ed) ..Art Rideout-WA6IPD's Fallbrook repeater received its coordination papers

(7-86) membership over 355 ..Clint Call-W6OFT (SK) checks out 5-6 rigs for PARC ..June speaker Jack Alt-house, K6NY, talked on RFI filters (Palomar Engineers) ..Bill-N6OPP had the coffee table ..repeater etiquette page insert...

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Worldradio Magazine

Twenty-five years ago W6HCD-Nash Williams was one of the first subscribers to Worldradio magazine and was honored in the August 1996 issue.

WA6YOO-Harry Hodges(Lt.Col.) became a Lifetime subscriber this past month to Worldradio Magazine.

Present subscription rates are \$15 per year: 1901 Royal Oaks Dr., Ste 190, Sacramento, CA 95815; 800-366-9192; or N6WR@delphi.com

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YPRS Rptr.Sys Update

Chris Baldwin, KF6AJM@amsat.org

Hello Everyone! Our Young Persons Repeater System project is about halfway done! Our Vista 70cm Repeater is up and running, using the same model controller as PARC's 146.730.

Also, our Palomar Mountain repeater is up and running, and is working very well. We are still very much at work on the YPRS 2 Meter repeater. I have the repeater radio, cabinet, antenna, etc, and we expect the controller to be in soon. It is a home built repeater controller, and therefore it is taking the gentleman a little bit of time to work on it, but it's coming along.

I project it will cover most of North County. We also have a GE 70cm Repeater that we are looking at a location for. If you are interested in learning more about the group, I suggest you tune into the Young Persons Net (YPN) on 146.730, Thursdays at 7:00pm, or attend one of our monthly breakfast meetings at the Escondido Carrows Restaurant, 1510 Valley Parkway, 9:30 AM, talk in is 146.880 - 107.2. This would be an exciting way to get your son or daughter into Amateur Radio!

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Gate 1 Callsigns

Dave Copley, WA6HQM, Encinitas, has changed his call sign under the vanity Gate 1 program. Dave's new call sign, effective now, is: KØCSD (city sanitation dept.) KØCSD is the call he started with 41 years ago, so he's very happy to have it back!

Allen Willett, W7AMR, is another happy ham. He gave up his old call for his real old call of W6TNJ first issued to him in 1938. That's 58 years ago!

Ted Web, KE6WOK, went back to his Uncle's 1950 callsign of W4OTP who allowed Ted to operate 3rd party from that station when he was at Key

West as a radioman aboard the submarine STRIKER.

Gate 1A for club memorial calls opened July 22nd.

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President's Wave Length

Art McBride, KC6UQH@amsat.org

I am pleased to announce that we had one of the most successful Field Days ever. Frank, KE6WOE, and John, WB6IQS, did a fantastic job. The 20-80 Meter C.W. station set a new record for the Club. Most important is the spirit of cooperation that took place this year. A lot of new members received training and chance to operate on H.F. under the direction of some of our best operators. Personality conflicts of past Field Days were missing this year.

Juan, KE6KNN, a Novice operator last year, ran the 15-40 C.W. station and came within 150 contacts of our best C.W. team last year. It is very rewarding to see this much growth in operating skills in such a short period of time. Juan has moved to Japan on Military assignment. I wish him the best of luck in his new position and I hope he can return to help us with future Field Days.

The Antenna work parties at John's QTH straightened out several antenna problems that had been plaguing us for several years. We had very few equipment problems this year and most all stations did as well or better this year when compared to last year.

Fred, KD6BGI, kept us well fed and did an excellent job in estimating the correct amount of food that was consumed.

Wayne, WD6AHX, purchased the pipe supports for the towers and helped with manpower for duration of Field Day.

This was the first year that Fire Extinguishers were present at all the generators and the fueling crew kept the generators in operation relieving the station operators of the task of fueling.

Frank's super solar powered UPS kept the 20 Meter phone station on the air for several hours without a generator. Everything was torn down and out of the reservoir area by 2:00 P.M. on Sunday. The site was left spotless. We could have done better, but we were short people and several members who signed up were unable to attend. Some stations were short operators which made those on duty do double shifts but we did the best we could with the people we had available.

The best news is both Frank and John have agreed to co-chair Field Day next year. They worked well together this year and with a full year ahead of them I am certain that next year will be a banner year for PARC Field Day activities.

I want to thank all of our members that helped make this Field Day a success and I hope to have their support for an even better Field Day next year.

Paul, N6ISC, had some problems with the fuel system for his generator. Part of the problem is the reformulated gasoline that is now being sold. After checking with the service shop Paul would like to share the recommended care for small one cylinder engines. This applies to lawn and other equipment as well as generators.

In the past regular gas was recommended because it had the lowest lead content. All gas offered for sale today has no lead additives. It is now recommended that the highest octane rating be used and that either Chevron or Unical gasoline be used because of the type of

oxygenates used in those brands to meet the new California State requirements. Other brands can leave a residue that plugs up the main jet in the carburetor if it is not used regularly.

Also make sure that the engine is stored on a compression stroke. This insures that the valves are closed and that the cylinder can not breathe. This prevents rusting of the valves and rings.

Paul also helped setup, tear down during field day, loaned us his generator, and donated 20 gallons of gasoline which was used at field Day. Thank-You Paul

If you keep a generator for emergency service, I also strongly suggest that it be run at least once a month on at least 1/2 of full load for 20 minutes. An emergency is not the time to be doing generator service.

Just a reminder. PARC requires that we identify using our Amateur call sign at the beginning of a QSO and at the end of a QSO (series of exchanges) or every 10 minutes which ever comes first when using our repeaters.

PARC and the FCC do not recognize tactical call signs. Tactical Calls are permitted as names or content of conversation only in the Amateur Radio Service. The U.S. Military is the only group that is legally authorized to use tactical calls which are coordinated under a Military Frequency Coordinator. Many of our members were trained first as Radio Operators in the Military, and they must make a special effort to remember to use their Amateur Call Signs for identification.

73, Art, KC6UQH

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PARC BOARD

Pres: Art McBride, KC6UQH, 747.0253
VPres: Sybil Allbright, W6GIC, 278.4284
Sec: David Doan, KC6YSO, 286.4888
Treas: Jo Ashley, KB6NMK, 741-2560
RptT: John Kuivinen, WB6IQS 727.3876
SCOPE: Stan Rohrer, W9FQN, 749.0276
MSh: Ralph Powel, KC6WAN, 727.7415
Mem: Mike Doyle, AB6QT, 742.1573
Mem: Marv Munster, WB6PKK, 941.9174

VE Program: Rusty, AA6OM, 747.5872
(2nd Sat.ea.mo. Carlsbad Safety Center)

ATV/Edu: Bill, KB6MCU, 582.2313

Editor: Stan Rohrer, W9FQN, 749.0276

30311 Cir R Ln, Valley Ctr CA 92082

W9FQN@amsat.org

or KA6FPS@sdcoe.k12.ca.us

PALBBS: Norbert, KJ6ZD, 630.5538

145.050 PktSimplex, 146.700-PktDuplex

WORLD WIDE WEB: Frank, KE6WOE

http://www.electriciti.com/parc

GPS Display Kit

- displays lat-long, time, number of satellites
 - 2x16 LCD module with LED backlight
 - connects to GPS receiver serial output
 - recognizes NMEA 2.0 GPGLA lines
 - computes and displays 6-digit grid square
 - low current draw (13mA without backlight)
 - complete kit with PC board for \$45
 - use as output for Trimble "mushroom" or as a remote display for handheld GPS unit.
- For more information, or to reserve your kit, contact J. Goldberg, KD6PBH, via internet: j@harper.com; voice: 619.990.9046



New Members

KC6WAN@amsat.org **Ralph Powell**

In mid-summer we always have a lot of action. Here are new members for the last four months (from 3/21 to 7/22):

THREE YEARS:

KD6YQP, Michael; K6PGF, Michael; KE6PCT, Kevin; N6LZW, Kerry

TWO YEARS:

KE6WOH, Steve; KF6KJP, Dave; KF6DMB, Ron; W6UAL, Oliver; KF6BFL, Ted; KC6ZRV, Mark; KC6AAB, Timothy; KF6BUT, Robert; KD6VMZ, Andrew

ONE YEAR:

N6XCE, Ralph; N6YSC, Terry; W9IF, Richard; N6VAK, Jerry; Assoc Tom Bearman; OH1BO1, Jari; KF6CRK, Charles; KD6WRL, Stephen; KC6UJN, Jeffrey; Assoc John Hartsell; Assoc Lawrence Brady; Assoc Russell Pelletier; Assoc Richard Scardino; Assoc Forrest Frame; KF6AUJ, Michael; KD6ICG, Scott; KF6AVJ, Scott; KE4HTW, Walter; KE6MEE, Jerry; KG6KH, Joe; WN6I, W E; N6MWD, Sharon; KF6CFN, Lane; KF6DBQ, Melanie; KF6DBR, Kelley; KF6DGE, Megan; KF6DGF, Maren; DF6DGG, Rosalie; KF6DSA, Randall; KF6KGB, Kathleen; KF6CPT, Madsen; KF6AZT, Ken; KD6FPE, Mark; KE6YYA, Raymond; KF6DFZ, David; KF6BIE, Trenton; KE6WOP, Kevin; KC6RED, Larry; KB0WQS, Chris; WB6HDT, Bob; Assoc Donald Devon; KE6MVZ, Matthew; 6/10; KD6EKQ, John; KD6RGW, John; N6LSP, Harry; KF6EFN, Carol; KF6CSY, John; KF6DJQ, Scott; KF6CTA, Richard; KF6ELO, Chris; Assoc George Montserrat; KR9T, Sam; KR95; N7NUQ, Ida; WB9TOT, Norman; WB9TOV, Sylvia; KF6DYW, Abram; WA4FEI, Warren; KF6EWU, George.

RENEWALS

135 one-year renewals plus the following:

FIVE YEARS KD6YY, Robert; KD6ZSH, Chuck; WB6PKK, Marvin.

THREE YEARS:

KC6WZI, Dale; KG6CQ, Charles; W6UCN, Horace; 5/20; KD6PBH, J S; KI6RF, Jack; KO6SI, Bill; KE6MVY, Leroy; WB6YZR, Bob (30 mos); KB6MCU, Bill; KE6CDJ, Chuck; AB7BN, Edward; W2MRM, Steve; N6YMH, George; WZ3P, William; Assoc Andrew Lemke

TWO YEARS

KE6EUE, Merle; KE6UFO, Earl; KE6NPN, Roland; KD6JRQ, Carl; W6MVC, David; N6NAU, Ted; KUIY, Bruce; NG6Z, William; N6OLE, Ivan; WA6ESG, Ed; KK6OT, Barry; K6MHG, William; KC6UQH, Art; WB6IQS, John; WA1CSO, Joseph; W3ARU, Pete; W6FTV, Edward; KD6RFM, Emilio; W6YYV, Samuel; WD6HFI, Phillip; KA6TNI, Anthony; KE6EKY, Frederic; W6BAW, John;

KE6AFH, Bing; KE6VJM, Randa; N6ISC, Paul; Assoc Charles Reeves; W6HCD, Nash; W6MK, C Milton; W6TFB, Lloyd; N6QVW, Orlando; KC6VVG, Allan; KC6QXU, Joseph; WT2Y, Hugh; WB6GXR, Willert; KM6PN, Stanley; KD6RFR, Jaime; N6OYG, Victor; KE6MRP, Troy; KE6LME, Peter; WA6GYG, Robert; W16B, Ron; N6RAO, Loreen

ONE BIG THANKS --

In spite of excellent receipts recently, there still are about 130 members whose dues will expire at the end of July. That's just a little higher than average. Just before the end of July, total membership stood at 875. Last year it was 901.

If you need autopatch or other information please send a SASE to the address shown on the Scope. If you have an email address I can send you a roster no charge. **KC6WAN 727-7415.**

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S.D. Microwave Mtg

Art McBride, KC6UQH@amsat.org

The July San Diego Microwave Group Meeting had a surprise guest, **Paul, SM0PYP**, from Sweden. Paul has been active doing EME (earth-moon-earth) work since 1980 and will be in San Diego for three years under contract with a local company. He brought his 36 foot dish with him and intends to continue his EME work here. Paul brought pictures of his equipment, antennas, and audio tapes of some of his contacts.

How many people do you know that run 1500 watts on 2304 Mhz.? Paul does. He is active on 144, 432, 1296, and 2304 Mhz. Paul is currently building equipment for 10 and 24 GHz. With a round trip transit time of 2.5 seconds on EME, you also get to hear your own echo. I hope to have him speak at one of our meetings early next year.

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ATV

Art McBride, KC6UQH@amsat.org

On July 14th Ken, N6ALA, and I were able to transmit and receive a P-5 picture on the new KC6CCC ATV Repeater on Santiago Peak from Coronado Hills in San Marcos. The repeater input is 10.400 GHz F.M. ATV. using a 27 Mhz Bandwidth. The output is on 3.480 GHz F.M. ATV 27 Mhz. band-

width. The input and output use horizontal polarization.

The repeater has three subcarrier audio outputs. 6.8 Mhz for audio, 6.5 Mhz C.W. I.D. and 6.2 Mhz for the Com-link audio. The repeater output is up all the time sending a picture from a security camera at the site. Mike, KC6CCC, has pan, tilt and zoom camera control capability via a control link. Congratulations to Mike for a job well done on a new ATV repeater. I understand that Bruce, WB6IZG, can receive the picture from Mira Mesa. Ken and I modified some used C Band satellite receivers for receiving the Signal. A 10 Inch horn antenna gave good results for receiving the 3.480 output.

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PARC Identification(s)

Caps, \$5.00; Old badges (circular ones), \$1.00; and New Badges (blue rectangles), \$7.00 (this will be mailed to your home).

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Packet News

Ted Stork, KD6AKT, PALBBS

I will have my portable packet station at the July meeting for those interested in Packet. It will be set up in the ARES emergency room across from the meeting hall. If you have questions, please feel free to stop in for "free" advice.

The Tuesday evening Packet Voice Net at 9pm see you there!

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Del Mar Fair

Barbara Rohrer KA6FPS@amsat.org

Thanks to the following amateurs for helping at the Del Mar Fair: Harry Hodges **WA6YOO**; Jerry Carter **N6TCB**; Henry Kirshner **WB0YQC**; Art Nye **KB6YHZ**; Anita Nye **KB6YHY**; Ron Miely **KM6MW**; Dennis Markham **KE6MQC**; Zac Markham **KE6MQB**; Ellen Utschig **N6UWW**; Bill Palaschewski **KD6BFR**; Bob Brehm **KB6QC**; Stan Rohrer **W9FQN**; Barbara Rohrer **KA6FPS**; Bob Wickord **KA6NZL**; John Bescher **N6SMW**; Jason Jones **KE6ZIB**; and Bob Jones **KM6KZ**.

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For Sail

W6NWG@amsat.org



Phone or send ads to your editor before the 20th of each month. Copy your ads after the form used here in. Personal equipment ads are free to members such as listed below and might be "bumped" after 4 mo. for newer ads:

NEW ADS.

(7-17)VCR, Sanyo late model with Beta II and III (6 hour) modes 30 extra tapes, Timer record and remote control \$75.00 OBO: Larry W7HKI 439-5855 Ocsd.

(7-16) Estate cleanout of ham shack and garage ..xmit/rcvr tubes, transformers, speakers, parts & tools: Mrs. Miller 726-6291 or 724-7460.

(7-16)AOR AR-1000 (HT type) scanning monitor 8MHz-1.36GHz + cell, 1000 channels \$250: Bill KD6BFR 480-6805 Escondido.

(7-15)Auttek WM-1 SWR/wattmeter \$75; ICE Mod 405 7-7.3 Mhz bandpass @ 200w \$25; Kenwood PC-1A phone patch \$55; Wilson DB-43 beam (3el 10m + 4el 15M) one boom \$80: Duane AA6EE 789-3674 Ramona.

(7-14) Kenwood TS 440S A.T., pwr supply, mike + instruction & service manuals mint \$750: Wayne W6RWV 724-0777 Vista.

(7-11) Yaesu FT-290R II 2m w/accessories \$495: Carl N6HLY 538-5997.

(6-4)BNC connector male/female combo (F. chassis mt, M. RG59u coax) \$5+postage: Steve W2MRM 451-5690 SD.

(6-1)ICOM FT-51R 2m/440 dual band HT w/remote hand mic. \$400: Chuck KE6TXQ Pager 1-800-804-9168 Carlsbad.

(5-26)TS-130 w/PS-30 & assoc gear \$BO: Ed KW6Z 789-2342 Vista.

(5-22)Estate Sears 6hp Roto-Spader \$150; 524D Tektronix Scope \$BO; Underwood Typewriter \$BO; Chippewa Wood Chipper \$300: John WB6IQS 727-3876 Vista.

(5-18)Butternut Ant w/cables etc; Hustler ant w/mount/masts + assortment of tips/coils 10-80m: Joe N6RVO

433-6885 Ocsd.

(04-25)The Club has inherited copy machine, XEROX # 1038. But it needs some TLC. If you or friend or acquaintance have some knowledge of this machine we would appreciate your giving it some attention. We have the User's Guide which goes with it. It can be seen & examined at the QTH of KC6WAN, very near the intersection of Freeway #78 and Rancho Santa Fe in San Marcos: Ralph KC6WAN 727-7415 Vista.

(04-24)Yaesu FT-5100 2m/440 xcvr like new w/decode & mobile quick release bracket \$550: Dinh KE6KDP 941-1529.

(04-18)Kenwood TS-830s xcvr ex cond \$500 OBO: Tom KE6HRL 741-1364 Esc.

Ads sent to the club box 73 in Vista can only be given to your editor twice a month so send them to 30311 Cir R Ln, Vily Ctr, CA 92082-4806.

(04-09)Tower 54' crankup + new control motor + HiGain control Unit + HiGain Quad all for \$500 cash: Bob KO6EM 728-4835.

(04-02) Kenwoods a)930 w/tuner \$950, b)220 Scope \$200, c)930 spkr, c)TS130 w/war w/b \$350, d)TS130 tuner w/b \$75, e)2m/241 A/B \$300, f)7850 mobile 50w w/b \$300; Yaesu FL2100 b/ex tubes \$400; RTTY Commodore cpl AEA monitor \$300 & 1540 printer; MFJ 9410 tuner (E) \$100: Larry W7HKI 439-5855 Ocsd.

(04-02) PK64 Pkt w/commodore keyboard \$100; Benchner key w/tet keyer \$100: Larry W7HKI 439-5855 Ocsd.

(02-24) Hy-Gain 4el mono bander w/balun \$100: Paul WA6IPF 726-5007 Vista.

(Please let me know if you buy or sell so I can take out the ad -Ed.)

WANTED: A few good men/women.

(7-18)Still looking for Kenwood TH-28A handitalkie manual ..lost phone # of previous contact: Pat KC5NJU 746-1644 Escondido.

(7-15)4el mono beams for 15m & 20m: Duane AA6EE 789-3674 Ramona.

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Measure the current in your radials, see which ones work and which ones are broken. Check for current on the coax shield, etc. Useful from 1ma to 5amp 1-30 MHz.

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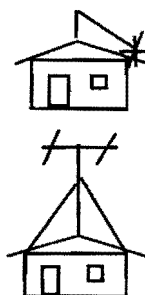
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Please check our complete ads in QST, 73, CQ, and World Radio magazines.



Antenna

If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate! Radio systems installation, repair and removal, and interference resolution.

Edward Ross, N6GZI
(619)542-1405

Specialties

(5-21)Dead or Mal-functioning DEO QSK-1500 RF Pin Diode Unit: Dennis N6KI 271-6079 Sandago.

(05-4)SP-520 spkr cabinet; PC-1 phone patch: Henry WBØYCQ 722-5394 Ocsd (leave message).

(04-24)Scanner, Realistic Portable Pro 38, 39, or 43; base 2005 or 2006; Bearcat 760XLT or 8500XLT: Bob KD6VAN 431-5907 Carlsbad.

(4-14) need information of the modification of a communications monitor,

CE-3, for "opening" up the 70cm band & need cover door for the unit: Mike AB6QT 742-1573 PMt.

+ + + + +

Commercial Ads in boxes: \$2/column inch/mo. We will "squash" your copy to the number of inches bought. Ads billed Feb., May, Aug., & Nov.

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CW NET on 147.075

The number of net controls for the 7-8pm Morse Code Net meeting Monday through Friday has diminished due to health and equipment problems.

If you can send computer generated CW once a week or once or twice a month, contact Paul-WA6TIL on one of the CW nets or give him a call at 630-1311 in Oceanside.

We really need your help even if for only several nights a month. Its a great feeling to know that you are helping someone increase his or her code speed.

+ + + + +

Autopatches System

Jerry Houser WB6FMT@amsat.org

All autopatch levels from the repeaters have been set to their normal operating levels including the 147.130 repeater.

The .13 repeater was delivering a distorted signal to the tone decoders in the autopatch system causing it not to work most of the time. This is not a fault of the patch system but a receiver problem.

All autopatch centers have been modified to accept additional filtering.

+ + + + +

Autopatches Use

Stan Rohrer W9FQN@amsat.org

146.730 ... normal, on 7am-11pm

147.075 ... normal, on 7am-11pm

147.130 ... normal, on 7am-11pm

449.425 ... normal, on 7am-11pm

We will attempt to run the autopatches again all night starting August 1st. We hope that our problem has been solved.

Please do not attempt 911 calls on any of our autopatches. They presently are not allowed!

Ask for a base station to help you with 911 type calls. Give them the information and let them make the call using their home land line. This prevents problems for everyone.

When you ask for someone to make a 911 call for you, remember that it sometimes takes a minute for someone to answer you so don't run away too quickly. It is best to start on 146.73, then 147.075, and last 147.13. This allows a station wanting to help you to track you down on one of our other repeaters.

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Antenna Wrk Party

John Kuivinen WB6IQS@amsat.org

(6/9/96) The 5 element 15 meter beam was modeled by Gene, WB9COY, and it looks very good .. it dipped right down at 21.25 Mhz and had a VSWR of < 1.5:1 from 21.00 to 21.50 Mhz. That should do us in good stead for field day. We polished all the mating surfaces and use No-Ox electrical coating on the parts before assembly.

Gene's 20 meter Cush Craft had a feed problem with a crummy SO-239 that was falling apart, typical Cush Craft. We fabricated a new fitting from a good quality teflon barrel fitting and soldered in a banana jack for the Gamma Match. It works great and looks great, we should write it up in the scope for all the crummy Cush Craft connectors there are in the world. The antenna elements had been retuned a bit so we moved things around and all should be OK now.

The last antenna of the day was a 15 meter 4 element Cush Craft. We did the same trick with the antenna matching and SO-239 as on the 20 meter antenna. We ran out of time and did not set it up, but according to Yagi Optimizer this was the perfect setup for 15 meter phone. Over the years some of the element parts had been swapped and parts of a reflector were in a director, and visa versa. We reset the elements for the phone band but ran out of time and did not set it up to check the tuning.

We still have some 10 meter antennas to do, but they are smaller and eas-

ier to handle. We have one other 20 meter antenna, but the CW people plan on doing their own work on that one.

Juan-KN6KNN, went down the hill unrolling the cable reels and about 50% of the cables were checked out mechanically for abrasions. We ran 3 watts of two meter energy down the line and had slightly more than a 3 dB loss. I was getting about 1.2 watts at 65' and 1.0 watt at 100'. A little more loss than I expected, but they were very consistent. All the shields were soldered, but some were better than others. Juan is of the opinion that we should redo a few of the fittings with new connectors or at least remelt the solder on the existing connectors.

Others helping at various times were Matt-KF6BRC* (On site and took 10mtr home. Worked at his house) & Duane-KO6BT* (On site Sunday AM for site review and measurements, etc.), Bob-KB6QC*, David White, Juan-KE6KNN, John-N6SMW*, Gene-WB9COY, Frank-KE6WOE*, & Chris-KB0WQS*. (*indicates were on site for meet Sunday A.M. as well).

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ATV 10.4Ghz Record

It appears that the world record for 10.4Ghz on ATV belongs to HB9AFO/EA/P to F1JSR/P over 592km (370mi) on May 1996 (Peter Day G3PHO, Editor RSGB Microwave Newsletter).

Art-KC6UQH and Ray-N6RE will are now planning on how they can im-

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Thank You!

PARC wants to thank Hawthorne for the use of three 2.5 kw generators during Field Day 1996. It is great to have local businesses who are willing to support emergency communications in the San Diego County area.

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NATIONAL CITY (619)474-5222

prove on their own personal record of 204.38 Statute Miles established last month.

+ + + + +

Letters to Editor

"I caught a bit of chatter on the repeater this morning. The general comments were 'everyone was too busy scoring points to properly elmer newbies.' Well... I consider myself a newbie and everyone I asked for help or a technical breakdown on theory of operation was more than happy to help. Art, Dave, Dennis, Gene, Rod, Duane, Juan, the list goes on. They all took the time to answer my questions. I am very glad I was able to participate and very proud to be a member of the PARC "(Joe, KE6WEO).

"have heard in the past that there are versions of CW such as Japanese, Arabic etc. Does anyone have a notion about this and are these versions in use?" TNX, Doug KE6EPK.

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Call Sign Map

Bob Gonssett W6VR@amsat.org

Ran across a nice call sign lookup page that, in addition to the regular FCC data, gives the geographic coordinates of the station in question and even draws a street map showing the QTH (user definable scale).

Address is: www.buck.com

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Timeout Timers

All of PARC's repeaters and autopatches have timeout timers so that our machines can be shut down automatically under certain conditions.

Our two meter repeaters and the 70cm repeater shut down after being used continuously for something over 100 seconds without someone dropping their carrier.

It is not correct for you to drop your carrier to defeat the timeout timer just so you can talk longer. To do so invites a control operator to turn off the repeater for 10-30 minutes as a reminder that this is not to be done.

Our autopatches have so many timers on them in various locations that it would be best to say that you are lim-

ited to less than 100 seconds and that we suggest that no conversation exceed 60 seconds.

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Do's

1. Invite people you talk to to come to club meetings.
2. Be friendly to all.
3. Do stop from time to time and ask "does anyone want to join this conversation."

+ + + + +

Don'ts

1. Operate simplex on the output of the repeater.
2. Talk to anyone using the repeater who is simplex (*everyone hears only one side of the conversation -Ed*).
3. Talk down to anyone. You embarrass them over 2,000 sq mi of SDCo.!

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Microwave Group

Kerry Banke, N6IZW, has been conducting the Microwave Net on 146.73 for many years and has expressed their thanks for the use of the 73 repeater to further their club's objectives.

PARC gladly makes time available to other club groups which have as their objective the furthering of ham knowledge in the area of electronics.

The Microwave Group meets the 3rd Monday of the month at Kerry's QTH in La Mesa. Phone 462-2220 for instructions on how to get there.

+ + + + +

Mars Global Surveyor

JPL Jun.28'96

...20 days after launch, the MGS will be open for amateur participation in late November while still in earshot of radio amateurs back home ..8GHz is used for spacecraft communications ..32 GHz will be used in an experiment onboard MGS test ..for future deep-space Telecommunications use.

The Mars Relay system is a UHF transponder ..1.3 watt beacon at 437.1 Mhz to alert ground stations that the spacecraft is within view. The relay uses 401.5 and 405.6 Mhz to collect ground telemetry at either 8kb or 128kb ..

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"..the approach we plan to take is to enlist the UHF-capable assistance of the worldwide radio amateur community in carrying out this flight test of the Mars relay shortly after launch."

..MGS is approximately 3.7 million miles from earth, making this test a distance record for radio amateurs in deep space communication. ..at these distances, the 1.3 watt beacon signal from Mars relay is of sufficient signal level for detection by radio amateurs with



large antenna system of gain greater than 21dBi..

Continually updated information on the Mars Relay Flight Test can be found in the Mars Global Surveyor home page at <http://mgs-www.jpl.nasa.gov/>. *(it is assumed the ending period is the end of the sentence and not a part of the address. Your editor also has a copy of the original article at club meetings - Ed)*

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Work Parties

Stan Rohrer W9FQN@amsat.org

Next workparty will be Sunday, August 11th. Bring 5gal of water for the little trees, lunch, drinking water, and sun cream.

Scheduled: repair of roof, painting, 224.94 tower adjustments, watering plants, and technical maintenance. How about coming up to help? You get a FREE tour!

(7-7) Another great day on the mountain:

John-WB6IQS and Bob-KA6NZL worked on the 147.13 repeater replacing a receiver strip which still seems to be not as sensitive as expected. They also got the .13 autopatch re-connected to the repeater. The repeater previously had been sending distorted signals to the autopatch system causing it to not function on about 80% of the calls being made.

Les-KE6QIM, Bill-KF6AVG, and Glen-KE6ZLY made up a form for 800 pounds of concrete to be used as a counter weight for the 224.94 repeater tilt over mast. They mixed and poured 9 bags of concrete mix to make a 750 pound counter weight. Stan-W9FQN had his hands in the mix from time to time.

Les also cut weeds and cleaned up the site.

David-KC6YSO transferred a 152MHz repeater obtained from Sybil and Bill to Bob for modification to 147.13. Jorge-KK6KD and his crew, Daniel-KD6DKM, Ruben-KE6JGG (wife Lilia visiting) did maintenance on the 224.38 repeater and in their spare moments helped with creating the cement counter weight.

Bill-KB6MCU worked on the ATV repeater and excellent pictures were received from Ken-N6ALA in Escondido running 0.5 watts on 2.4GHz. Sybil-W6GIC ran "shotgun" for Bill.

The technical people were assisted by Art-KC6UQH and Ken who were in Escondido.

(7-11) Stan-W9FQN and Glen-KE6ZLY obtained 17ea 5gal plastic containers and 2ea 35gal plastic containers for the repeater site irrigation project.

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Cam-corder

W6NWG@amsat.org

PARC is looking for a non-functioning camcorder that can be used at the repeater site. It should have a zoom lens so that we can look at antennas on the 80 foot tower and send the picture out over the ATV repeater. This would be especially helpful in the winter months when the antennas are loaded with ice.

We are also finding "nuts" inside of some of our open ended pipes high on the tower and we would like to find out who is doing it!

This capability would also allow us to examine the site when one of our building alarms goes off.

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New 147.130 Repeater

Bob-KA6NZL has accepted the challenge to make up a new 147.130 repeater from the 152MHz Motorola repeater donated by Bill Smith-KB6MCU.

This is a repeater (not a split up mobile unit) almost the same as the 146.700(-) Packet duplex repeater which served us so well at one time as our 146.73 repeater since the early 70's. (Bill always seems to come up with things that we need.)

Bob hopes to have this new repeater up and running sometime soon to replace our present .13 repeater which has been giving us troubles *(this repeater was not built by PARC techs - Ed)*.

The transmitter and receiver will have to be retuned to the amateur 2m band, a controller installed, and the au-

topatch connections installed. It will probably be crystalized up for .13 first with the possibility of 147.075 being added later when the repeater could serve many years in the future as an emergency repeater for those two frequencies.

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SCOPE via E-mail (Ed)

Stan Rohrer W9FQN@amsat.org

There have been several requests to provide the SCOPE by E-mail. The SCOPE is "set up" using MS Publisher and there are graphics being used.

I have a feeling that with all of the control codes that anyone receiving the SCOPE via E-mail would have considerable problems getting it to print properly (or at all) or even show up on the screen such that it could be read.

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2m 70cm Steal

The ARRL now is indicating that letters and e-mails sent by amateurs regarding the Mobile Satellite Service attempted "take over" of the 2m and 70cm ham bands have had their effect. They are now suggesting that amateurs get the latest information from the ARRL Web page: <http://www.arrl.org>.

+ + + + +

Russian RS-12

Harry Hodges WA6YOO@amsat.org

Using the Russian RS-12 satellite I have been able to work and have confirmed 14 states. Some contacts were SSB and some CW.

The uplink frequency is 15 Meters, downlink is 10 meters. A simple dipole will work and you get six passes per 24 hour period with duration about 15 minutes each. Good luck!

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Field Day Records

The 96 FD group set a sunspot minimum record of about 4,200 contacts and an all time record of six rolls of bathroom tissue. Our operators were really on the go!

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Flying Samaritans need eye-glasses. see Nash W6HCD at meetings
The eyeglasses are for others! Not for the pilots!

Field Day!



Another Field Day has come and gone, and once again the Palomar Amateur Radio Club fielded top-notch teams in this year's 5A effort. And what an effort it was...a new club record for the 20/80 mtr CW station - 1038 contacts...a satellite CW QSO on Oscar 10 (while its power failed)...an incredible effort for a short-handed team that scored over 600 contacts on 15/40 mtr CW...almost 900 phone QSO's on 20 mtrs...training, training and more training...and what appears to be a record (albeit a dubious one!) for the longest, continuously transmitted snoring on any phone band.

Kudos and "jobs well done" are also in order for the short-handed support crew that pitched in where ever needed: fueling generators, escorting visitors, delivering messages, set-up and tear-down, and generally keeping the overall effort running smoothly and safely.

In addition to the traditional ARRL Field Day Emergency Preparedness Exercise objective, PARC's stated Field Day objectives were to (1) conduct maximum training consistent with continuous operations, (2) obtain a maximum effort from all who participated, (3) ensure that everyone who participated were given the opportunity to "get on the air", and (4) to have a good time supporting the club and plying our craft. From the post field day comments overheard on the club's repeaters, from the email that has been received by the club's board members, and from the comments of the general membership at the last meeting, we achieved those objectives.

We did it through the skills and a lot of hard work and dedication from a relatively small number of our members. And we did it through a strong sense of teamwork and a "can-do" attitude that was there from the first hour of set-up through the last hour of tear-down and clean up when it was all over. Those of us that did participate took away a real sense of accomplishment, both in terms of personal goals, and in the knowledge that we could provide a first class emergency communications capability should the need ever arise.

Thanks to all who made the 1996 Field Day a great success. The club can be justly proud of the effort

A primary measure of that capability to communicate is our scores. They're pretty good. Remember, when comparisons are made (and inevitably they will be), compare "apples to apples" and "oranges to oranges". Past years' field day scores were made in their respective contexts: band conditions, equipment, operator skills, training and experience in high tempo operations, and the list goes on.

This year's field day was unique to this years' band conditions, teams and effort. And what an effort it was. Remember also, that hindsight is always 20/20. Sure, we could have done better in some areas... and we will next year with more support from our members... but for now, here are the numbers for this year. And they're good ones...

Chuck Wagon!

Chief Operator:

Fred Smittle, KE6BGI
250 Meals served!

20/160 Meter Phone

Chief Operator:

Paul Buscema, KZ6X
20 Meters: 896 Contacts
160 Meters: 4 Contacts
1800 Points

15/40 Meter Phone

Chief Operator:

John Bescher, N6SMW
15 Meters: 418 Contacts
40 Meters: 180 Contacts
1196 Points

20/80 Meter CW

Chief Operator:

Gene Swiech, WB9COY
20 Meters: 867 Contacts
80 Meters: 171 Contacts
4152 Points

Check Out the New Field Day Pictures
on the Club's Web Page..
<http://www.electriciti.com/parc>
(Select "Latest Club News")

2/6 Meter Phone

Chief Operator:

Merit Arnold, W6NLO
2 Meters: 127 Contacts
6 Meters: 140 Contacts
534 Points

Novice/Tech Station

Chief Operator:

Dick Obermayer, KF6CTA
100 Phone Contacts
56 CW Contacts
424 Points

15/40 Meter CW

Chief Operator:

Juan Lopez, KE6KNN
15 Meters: 220 Contacts
40Meters: 384 Contacts
2416 Points

75/10 Meter Phone

Chief Operator:

Bob Brem, KB6QC
75 Meters: 263 Contacts
10 Meters: 385 Contacts
1296 Points

Satellite Station

Chief Operator:

Duane Naugle, KO6BT
1 CW Contact
6 Phone Contacts
10 Points (+ Bonus)

Packet Station

Chief Operator:

Harry Hodges, WA6YOO
4 Contacts
16 Points (+ Bonus)

Total QSO Points: 11844
Bonus Points Claimed: 1440
Total Score: 13284

Field Day Sights

Did You See...

Ted, W4OTP (formerly known as KE6WOK), delivering a whole pickup



truck full of Hawthorne Equipment generators and gas cans (he arranged it all himself). W TG, Ted! We sure needed them.

Chris, KF6ELO, one of our newer members who had his call sign for only two days and didn't even have his own radio yet, helping to set-up, delivering gas to the operating stations in the middle of the night, collecting "Howgozit" statistics, and helping tear down.

Stan, W9FQN, and Chris, KB0WQS, in the red jeep (aka, "the Rat Patrol") trying to be everywhere at once to help everyone simultaneously. The most amazing part of it all was they managed to do it! In his 'spare' time, Stan managed to make needed plumbing repairs...

Larry, KC6RED, (fresh from neck fusion surgery) another new club member, looking for others needing help with anything (in the middle of the night); this after a marathon stint at the mic himself, covering a short-handed station.

Steve, KE6SQI ("...This is PARC Field Day Ops..."), doing a 24 hour+ stint at the "CP", squiring around visitors, coordinating work parties, and generally making sure that the operating stations had what they needed, when they needed it.

Ted, KF6BFI, after holding down a stint at the "CP", then working on several work parties, and then taking a turn at an operating station during the middle of the night, came back to the ops center, announced "This is fun!", joined ARES on the spot, and then went off in search of another mic to key.

Barry, KE6IEU, as he maneuvered his trailer around the site to its slated position at the 80/20 CW station muttering about clearances of at least an inch and a half...

Joe, KE6WEO, looking for a tower to climb...

Dennis, N6KI, was positively identified as being at two different sites, at opposite ends of the field day site at exactly the same time. Witnesses also swear that he had a paddle in each hand at the time...

Jo, KB6NMK, providing that much

needed roving "water fountain" and encouragement during set-up, doing marathon duty at the mic for most of the night during operations, and somehow managing to make it back for tear down and clean up. All this while her daughter's baby was due at any time.

Art, KC6UQH, actually awake at 0300!

Harry, WA6YOO, managing to make and put up the PARC Field Day signs, send in Press Releases, copy the W1AW message, make 4 packet contacts and send the message to the Section Manager (and he did it for another club's field day also!)...whew! A one-man bonus point generator!

Walt, KE6PGT, who said, "Yes, I'd like to help" and promptly provided a 20 foot motor home for a station shelter, a generator, gas cans, work lights, fire extinguishers, plywood and sound insulation materials and a 12x12 foot screen room. To be sure he did his fair share and supported the club, he also worked on many work parties and took a turn at operating. Oh, yes...he was also there to take it all down.

John, WB6IQS, whose tireless efforts and countless hours of technical support prior to field day helped make this field day relatively free of technical problems. He was, in fact, seen by several of our members, making the rounds during operations (although he had a horrible case of the flu at the time) trying to drum up something to fix...

These are just a few of the people whose seemingly tireless efforts behind the scenes providing support helped make the PARC Field Day a resounding success. *To those who stepped forward - thank you.* To those who could not, thank you for your best wishes. To those who didn't - you missed one of the premier opportunities to support your club. But, you'll have another chance next year... 73, KE6WEO

+ + + + +

Field Day Ops @ K6LL

Dave K6LL@juno.com

Two of the operators at a Field Day

this year (*K6LL, IE, AZ, 2400 Q's and this is not PARC!!-Ed*) were Charlie, KC7DBU, age 9, and his sister Catherine, KC7DBT, age 11. While most of the adults at Field Day were busy schmoozing, eating, and drinking, these two jr. ops were constantly observing, listening on the spare headphones, and trying to get as much operating time as they could wrangle.

On Saturday, I noticed that Charlie was making some kind of a list, but I didn't pay much attention to it. On Sunday, after Field Day was over, he showed me the final list, which turned out to be a compilation of his observations of our FD participants, other FD stations heard on the air, and his personal on the air experiences. I thought some of you might get a kick out of it.

Charlie's (age 9) Field Day Hints:

1. Don't give up if signals are weak.
2. Don't drink too much beer before or during the contest.
3. Get on the air any chance you get.
4. Don't drink too much coke.
5. Get at least one hour of sleep.
6. Don't eat too much food.
7. It's Field Day - Have fun!!!
8. Make sure no wires are near water and make sure nothing is in a dangerous position.
9. Make as many contacts as you can.
10. Don't get too much sleep.
11. Ignore your wife's complaints.
12. If another contester comes on the frequency, get him off. Keep on talking/sending!
13. Put up a "No Smoking" sign.
14. Eat Something.
15. Try to set an alarm to wake up.
16. When somebody tries to steal your frequency, press the button! (the CQ button on the voicekeyer).

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Computer Donations

Many thanks to **KE6AFH**-Bing & Randa Milljour and **KE6WEO**-Frank Littlebury for the donations of computers to several of PARC's projects.

One will be used by a young girl whose father has been very helpful to the club near the repeater site and the

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rf CONCEPTS
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US TOWERS
KANTRONICS
YAESU
MFJ
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HUSTLER
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Astron
OUTBACKER
Larsen Antenas
TEN-TEC
hy-gain
cushcraft
AEA
Tri-Ex
and
others too
numerous to
mention!

Drop in to see our
display of working
equipment.
Find out about Pkt
location determining
equipment (APRS).
Check out our
complete line of mag-
azines, ARRL books,
license manuals, etc.
Bulletin Board with
all sorts of goodies.

Open: 10a.m. - 5:30p.m.
Monday thru Saturday *Ask about our
great prices*

619-560-4900 or toll free 1-800-854-6046
5375 KEARNY VILLA ROAD, S. D.

Directions: On 163, take Clairemont Mesa Blvd. off ramp to East.
Stay in right-hand lane. Turn right at stop light. As you are turning
right you can see our beams in the shopping center. Travel 100 yds.
on Kearny Villa Rd. and U-turn back to shopping area and HRO
sign. Be sure to see our equipment in action on **real** antennas.

other one will see service with the
club's new automatic autopatch dialing
service.

+ + + + +

SCOPE News

We can't report what we don't know
about! Please send news items to your
editor via-
W9FQN@amsat.org; Stan Rohrer,
30311 Circle R Ln, Valley Center CA
92082; Editor, POBox 73, Vista CA
92085-0073; or hand items to him at
club meetings.

We are looking for news about club
members doing things, funny things
said on the repeaters, general
information items, emergency
information, information about club
members, etc.

Your help and input would be
greatly appreciated.

+ + + + +

October Auction

W6NWG@amsat.org

Our club auction will be at the
October club meeting so you will want
to go through your piles of valuable
surplus equipment and decide what you
can depart with without shedding too
many tears.

You will also need to start saving
your pennies for those items you just
can't live without. (You might want to
bring in those items you bought last
year!)

Paul-N6ISC has consented to chair
the event.

+ + + + +

Projects/Needs

We are looking for heavy duty turn-
buckles. W9FQN ended up with one at
the July meeting and does not know
where it came from!

+ + + + +

Field Day Lost/Found

The following items were
lost/misplaced at the FD site:

Dennis-N6KI: Green painted
aluminum mast sections, about 1 1/4 to
1 1/2 inch diameter. Each section is
about 3 to 4 ft long and push together
as one end is swaged to fit into another.
I think I'm missing a couple sections but
could be wrong. Also small Red plastic
insulator that has 2 banana plugs
sticking out and a short piece of wire
soldered to it with another banana plug
on end of wire.

If anyone knows where these ended
up, please contact the owners or
W9FQN so he can locate them at the
site.

+ + + + +

**SPEED
LIMIT
5
WPM
when
LIDS
present**

CW on 147.075

For the next several
months those wishing to
practice "on the air" CW
contacts may do so on the
147.075 repeater after

10pm each evening.

+ + + + +

Scope Reporter(s)

If you are interested in writing for
the SCOPE, pick a subject(s), sketch it
in, and then start writing!

Items stand more of a chance being
published if they are - -

- 1)approved beforehand
- 2)short and to the point
- 3)of general interest to club members
- 4)educational
- 5)sent by electronic means

You can hand them to me on disk at
meetings or send them by e-mail. Be
sure to include your name, phone
number, and electronic address (e-mail,
BBS, etc).

Spread Spectrum

WA6UTQ-Larry Ruegseger
provides your editor with many items of
interest. One of them is a paper on
Spread Spectrum. Club members
interested in the subject can borrow the
paper (about 40 pages) by contacting
your editor at the next club meeting.

+ + + + +

APRS Use

W8KXX just had his car stolen but
it was located almost immediately since
it had an APRS unit mounted in the car
broadcasting its Latitude and
Longitude!

+ + + + +



PARC NETS (16/37)

All 146.730 8:00pm Traffic Net (SDCTN)

All 147.075 10-11pm MCW contacts

All 147.130 10+ pm King Henry's Net

(open to all facetious amateurs)

Sun. 146.730 8:30am AREmergency Service

Sun. 146.730 10:00pm Sailor's Net

Sun. 147.075 8:45pm MARA Net

Sun. 146.730 9:00pm This Wk in SDCo.

Mo. 147.130 6:45pm EVAC (2nd/4th)

M-F 147.075 7:00pm Morse Code Net

Mo. 146.730 7:15pm RACES sub Net

Mo. 146.730 9:00pm Microwave Net

Tue. 146.730 9:00pm Voice Packet Net

We. 146.730 9:00pm Spanish (2nd/4th)

Thu. 146.730 7:00pm Young People's Net

Thu. 146.730 9:00pm Ham Help Net

(electronics, computers, antennas, license theory, etc.)

Fri. 146.730 9:00pm Hiker's Net

Inside:

FD Info & scores,
Aug Mtg, Mi-
crowave Inf, For
Sale, CW,
10.4GHz, RS-12,

Wrk Parties, Cam-
corder, SK, 88, Sick
Call, FCC phase
out?, New Ham, VE
program, etc.

Membership Application Dues \$12

Amateur (circle)

Call Family \$21

Membership: New / Renewing (circle)

First

Name

Last

Name

Street

Address

City

State+Zip

Home

Phone

Date Ham

License Expires

License Class N T T+ G A E (circle)

Family Membership (name + call)

Sponsor's Call

(not required)

E-mail Adr: (09-96)

(if checked) LOOK AT ATTACHED AUTO-PATCH SHEET. NOT CALLING PROPERLY!

July SCOPE helpers: Jerry-N6TCB, Harry-WA6YOO, Jo-KB6NMK, Larry-WA6UTQ, and Stan-W9FQN. Started at 12pm and ended at 2pm. We could have used extra help. ...and were those chocolate chip cookies good!

Mail the application (or copy) with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or give to our membership chairman at meetings. We prefer checks: you have a record.

Dues are \$12/yr. including \$3 for SCOPE (\$4 outside SDCo), or \$21/yr for a family all living at the same address. Consider paying for 2-3yrs at a time to reduce the work for the membership chairman.

Name, call, and complete address are required. Telephone number is required but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet, send a Self-Addressed-Stamped-Envelope (SASE) with your phone number on the inside flap with your application or the receipt of the next newsletter mailed the last week of each month will be your only notification of membership..

Meetings 1st Wednesday of each month at 7:30pm.

OPEN REPEATERS / CLOSED

AUTOPATCHES, PALOMAR

Mt. REPEATERS (W6NWG)

PARC Trustee of W6NWG: AB6QT

*52.680- W6NWG, -0.5 MHz

Autopatches(4): 146.730-, *147.075+

*147.130+, *449.425-

PKT: 145.050s (PALMAR-1) Open

(linked to PARC 9600 METROLINK)

146.700-(Duplex Pkt) PALBBS/EMG use

145.050/146.7- (W6NWG/PALBBS)

ATV: 915 wbfm, 919AM, 2441.25 wbfm

Intercom: 144.390 PL 79.7 nbfm

OUT: 1241.25 MHz AM

OTHER: *224.38- & *224.94- KK6KD

*224.90- WD6HFD (220Club)

448.00- WB6FMT (123.0PL)

*146.175+ WA6IPD, Falbrk

* = PL of 107.2 Hz

<http://www.electriciti.com/parc>

SCOPE, US Postoffice #076530

Published monthly by PARC Inc.

Membership \$12/yr. including \$3 for

SCOPE inside SDCo.(outside \$4).

2nd Class Postage Paid

Vista, CA 92085-9998

POSTMASTER: Return to—> SCOPE

P.O.Box 73, Vista, CA 92085-0073

Member only if membership date is current on label.

Phone Codes —>

Deliver to —>

Forest Frame
7841 Parma Lane
San Diego CA 92126

Renew Now!
Please consider renewing for several years.



Scope

Palomar Amateur Radio Club Inc.

Box 73, Vista, CA 92085-0073

Sep. ***** 1996 ***** 60 Years Old
 Dues \$12, Volume XXII, Number 9
 Coffee 7pm, Mtg. 7:30pm @ Carlsbad Safety
 Center, Palomar Airport Rd. to N. on Camino
 Real (S11), east on Faraday .25mi, left to CSC.
 ++++++ Talk-in 146.730 ++++++
 4-Patches 147.075+, 147.130+, 449.425-
 Pkt, ATV, 220, PALBBS & w6nwg@amsat.org

NEWS WORTHY (see page)

- 2-Board, Members, Treas, SK, Ed, Thanks, AGOGO, VE,
- 3-Pres. remarks, Sick Call, Board
- 4-Picnic Information, Condolences
- 5-For Sale,
- 6-Auction, KC6ZEC, RndTble, HMY
- 7-WB6HMY cont., Microwavers,
- 8-SDCTN, HamHelp, Jacinto, PZB
- 9-Patch/WrkParty/Pkt/Fire/EmgPwr,
- 10-Emg. Power (history) continued,
- 11-Roses/Digital Items/NiCad, Gate
- 12-Application, Officers, Board, etc.

Sept. Mtg. Program

W6GIC@amsat.org

Sybil Allbright

The program for the first Wednesday in September will be on APRS by Bob Abrams, KI6MP on measuring Latitude and Longitude.

Show and Tell: if you have anything of interest, bring it in and tell me how much time you need (limit 2 min.) before the meeting starts

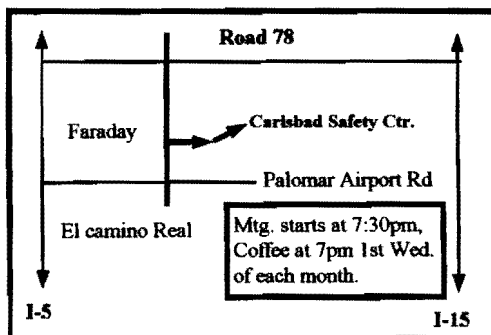
Club meeting starts at 7:30pm but many come at 7pm to talk to friends, sample goodies & coffee, join in a seminar, get a good seat, or be first to see small items of equipment being brought in for the club's sale table where the club takes 10% of the selling price.

Check 146.730(-) around 6pm for where some members are eating dinner before the meeting.

Please come early and help set up chairs ...and STAY a few minutes to help put them away. Your help is greatly appreciated!

Upcoming PARC meetings:

Please send program suggestions to me at the club's POBox or my E-mail.
 (Sep 4th) APRS program
 (Sep 15th) PARC Picnic (prizes)
 (Oct 2nd) Annual club Auction



Last Club Meeting

We were treated to an excellent discussion by Stuart Downs, WA6PDP, of how switching power supplies work along with information on where to get parts and what books to read.

In attendance were 11 guests and 107 members for a total of 118.

Last month's SCOPE should have indicated that the July meeting was by Kerry-N6IZW who gave an excellent program on the Microwave Group's 10Mhz repeater.

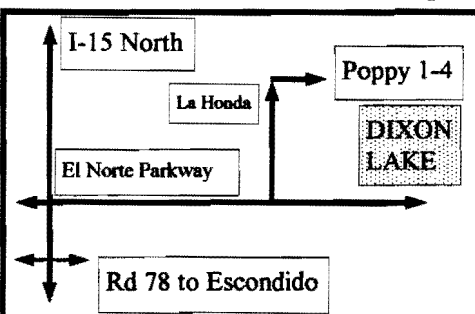
+ + + + +

Club Picnic

Mike Doyle

AB6QT@amsat.org

PARC's annual picnic will again be at Dixon Lake on the north edge of Escondido on Sunday, September 15th, within 100' of the entrance to the park



(Poppy 1, 2, 3, & 4).

There will be prizes, seminars, hidden transmitter hunting, good food, transmitter checking, good fellowship, \$300 worth of gift certificates, and many small prizes.

Take I-15 going north out of Escondido, east on El Norte Parkway (exit) several miles, north on La Honda, enter park (\$1/car unless you are a senior),

Sept. '96 SCOPE

- 04 Club Mtg. Carlsbad Safety Ctr, 7:30pm
- 07 Santee Swap Meet (drive in theater)
- 08 Rptr Site Work Party 10:30am P.Mt.
- 12 PARC BoardMtg. WB6IQS QTH, 7pm
- 14 PARC VE Testing CarlsbadSaf.Ctr, 10am
- 15 PARC Picnic Dixon Lake

SK SK SK SK SK SK SK SK SK SK SK SK

WB6HMY (Little Joe)

We regret to announce the passing of Joe LaPointe on August 16th. There are so many good things about Little Joe that they are covered elsewhere in the SCOPE. (pg6) (1913-1996)

SK SK SK SK SK SK SK SK SK SK SK SK

turn right about 100 feet and the park area is on the left.

If you park just outside the park entrance, you can save \$1 per car. Then walk into the first parking area where all the antennas are on cars. The inside parking lots (and tables) fill up sometimes by 9:30am so come early.

See page 4 for more information on food, activities, and drawing rules.

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Sept. General Class

Bill Smith-KB6MCU and crew (Sybil-W6GIC & Harry-WA6YOO) will begin their General Class instruction September 9th at 7pm in the Carlsbad Safety Center in Carlsbad.

All amateurs are welcome including non-PARC members.

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**SPEED
LIMIT
70
WPM**



Treasurer \$\$\$\$\$\$

Jo Ashley, KB6NMK@amsat.org July96

Cash & Bank Accounts \$15,406.73

Pre-paid Dues, obligations -\$ 8,954.75

Equipment, projects fund - \$ 6,451.98

Past totals: May. \$13,708; Apr. \$13,466; Mar \$13,300; and Jan. \$13,388.

Bank balances are usually higher towards the end of the club year (July 31st) because of the large number of club members renewing.

Pre-paid dues is your dues money set aside to take care of membership services: monthly bills (electricity, phone, SCOPE, supplies, picnic, repair, FD, insurance on equipment and liability, etc.).

Equipment & project funds buy items needed at the repeater site, club trailer project, Field Day, etc.

Cash & Bank Accounts: checking \$9,004.65, Certif. \$2,362.71, Certif. \$2,025.03, and Certif. \$2,015.34. Due dates coincide with major club needs.

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Board Meeting

Board meetings are always held on Thursday at 7pm on the week following the club meeting at various Board Member QTH's. All members are welcome.

The 7pm meeting started at 7:07 with: KC6UQH, W6GIC, KC6YSO, KB6NMK(ab), WB6IQS, W9FQN, KC6WAN, AB6QT(ab) & WB6PKK.

Others: N6ISC (auction) & KB6MCU (ATV/Training).

Discussed/Approved: minutes; Sbalance; KD6JXY \$30 Rain Report; \$300 gift certif.; programs; membership 780; SCOPE items; picnic; alarms; crystal order(s) \$30; W9FQN to head Repeater Use Request Committee; computers; classes; WB6PKK next board mtg.; auction and other items too humorous to mention.

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Editor

Stan Rohrer W9FQN@amsat.org

From time to time your editor hears Palomar Mountain being referred to as Mount Palomar. Does anyone know the history of the name?

Many thanks to those of you who have spotted errors or omissions in the SCOPE and have called them to my at-

tention. Changing to an IBM format has been somewhat painful and hopefully in the future I will be able to spend more time on content than format.

I am also very appreciative of those members who have sent in items of general interest for the SCOPE.

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Many Thanks To:

Goodie/Coffee Table: Marvin Jones-KD6YJB and wife, Jerry for taking the coffee table in the absence of Art and Anita.

Meeting Goodies: Bill-KM6PY, Tuck-KC6ZCZ, Norm-N6QQF, George-K6YGK, Paul-N6ISC, Lief-KQ6HE, Jim-WA9LFR, and Chris-No call yet. George-K6YGK and Dennis-N6KI for a most interesting group of magazines.

Orlando-N6QVW for several SS turnbuckles. Don Waters for 5 large turnbuckles and for helping with an estate.

+ + + + +

PARC VE Program

Rusty Massie, AA6OM 747.5872

1249 Nordahl Rd., Escondido, CA 92026

SANDARC VE testing locations are now charging \$3/session. You must have exact change! PARC testing is the 2nd Saturday of each month at the Carlsbad Safety Center in Carlsbad at 9:30am. Contact me seven days before the exam date so that I can have the proper test(s) available for you.

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Long AGOGO (history)

K6HAV / K16JM / W9FQN

(09-95) ..FCC Engineer Jerry Man to give talk ..picnic info ..Frank Rammey-WB6HSZ SK ..Kerry-N6IZW 10Ghz contact ..thanks to many by pres. KC6UQH ..Jack Hanthorn-K16JM information ..list of Repeater Techs ..146.7 packet duplex info ..Special events by Pat-KD6PZB ..Tom Kadien-KC6ZVI and Bill Bowen-N6FMK donate UPS emergency units ..Ivan Simpson-W6TET donated various radios ..VHF HT color freq dots explained ..

(09-91) ..record attendance 108 ..PARC POBox changed to Box 73 ..WA6MYC & W6TZV SK

..membership roster ..Aug picnic info ..installing new Vista autopatch ..membership topped 449 members July 31st ..Art Smith-W6INI SCM report ..27 on consulting expert list ..

(09-86) ..only 4 repeaters: 146.73, 147.13, & 449.425 + 145.05pkt ..made offer to purchase discount note on repeater site ..Boots Olsen-W6HAW SK ..Aug picnic report ..

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SK SK SK SK SK SK SK SK

We regret the passing of Fred Anderson at the end of July. Fred was known as scanner Listener #1 on King Henry's Facetious Net on the 147.13 repeater. He is survived by his wife, Helen.

(de WB0YCYQ)

SK SK SK SK SK SK SK SK

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New Members

KC6WAN@amsat.org Ralph Powell

Say, we're going modern! BAR CODES on our newsletter. But we have to have GOOD addresses. Often a postman gets your news letter to you even when the address is poor. I have spelled a street Fista when it was really Vista; the postman delivered correctly for a WHOLE YEAR and neither the member nor I knew of the error.

To do BAR CODING we must process our addresses against the official Post Office Database and we cannot print a barcode unless our addresses correspond with theirs. That means we must have the Zip+4 number as well as the 5 digit Zip Code. To get the former we must have a good street address as well as a correct City & zip code.

We've done the 1st phase--obtained zip+4 codes. So look at your label--if we have printed a zip+4 code then your address is considered good. If you do NOT have a 4 digit on your label that means your address is NOT acceptable for automation purposes. If you do not have the 4 digit code associated with your address on your label, please examine your street address--then call me, 727-7415, and tell me what it should be.

If you're not in San Diego County please mail me a post card with your correct street, City and 5 digit zip code.

We are NOT asking for your zip+4

code—we can get that readily if we have what is otherwise considered a good address.

And while you're checking for your zip+4 code, check your expiration date on the label and see that I've done that right. It's the rightmost set of 4 numerals on the top right of your label. The first two digits indicate the year in which your dues expire--and the last two digits indicate the month.

If I do not have your expiration code correct please let me know that.

This zip+4 code business is important--we get a significant saving on your mailing costs if we have these correct--if yours is the correct, then the rest of the address is acceptable. Please check yours.... KC6WAN 727-7415.

+ + + + +

Sick Call

W6NWG@amsat.org

W6INI-Art Smith, is home recuperating.

KI6JM-Jack Hanthorn, is confined to bed.

W6TFB-Lloyd Hunt, is recuperating at home.

+ + + + +

President's Wave Length

Art McBride, KC6UQH@amsat.org

I have moved to a new QTH. Not only was the move stressful, but events including a Tarantula, tripping over Snake and having a forced entry last Saturday has made this move the most memorable and exciting one I have ever had. I guess this is part of the price one must pay for being allowed to have outdoor antennas. The good news is I now have an excess of adrenaline that I can auction off in October.

Yes I said AUCTION ! Our annual Club Auction is coming in October. Paul, N6ISC, will be running the auction this year and in case you run out of activities during the Labor Day weekend, you can drag out those treasures of the past from the corners of your radio shack, and get them ready for sale at our October Auction.

Mike, AB6QT, is all set for Our Club Picnic in September. There will be prizes, demonstrations of equipment, Radio Testing, and more. Be sure not to miss this one. There is a large playing field for the Harmonics, and a wonderful outdoor atmosphere for the whole family. Remember you must be a current member to participate in the drawing. Ralph, KC6WAN, our Membership Chairman, will be there to accept renewals in case you forgot to renew your membership. C. U. there.

Pat, KD6PZB, ran an informal net during the Saturday Power Outage on the 10th of August. I heard parts of it and he did a very good job of keeping us informed of the progress of the restoration of Power. While a Power Outage is not an emergency for most of us it is for some who depend on it for life support, and before Pat started the net enquires from many stations of "what happened?" and "power is out here" was creating chaos on the 146.730 repeater. Pat's efforts kept the Power conversations orderly, and on the 146.730 Repeater which left the other Two Meter Repeaters available for general use. Surprisingly Palomar Mountain had power for the duration of the outage and all of our Repeaters were operational. Thank You Pat.

Last weekend I worked the first half of the ARRL Microwave Contest for the first time. Bouncing signals off

GPS Display Kit

- displays lat-long, time, number of satellites
 - 2x16 LCD module with LED backlight
 - connects to GPS receiver serial output
 - recognizes NMEA 2.0 GPGLL lines
 - computes and displays 6-digit grid square
 - low current draw (13mA without backlight)
 - complete kit with PC board for \$45
 - use as output for Trimble "mushroom" or as a remote display for handheld GPS unit.
- For more information, or to reserve your kit, contact J. Goldberg, KD6PBH, via internet: j@harper.com; voice: 619.990.9046

of various objects including a curved water tank was a very new and educational Radio experience. Pointing antennas with a two degree beam width requires learning new skills, plus you get to recall those pool bank shots of the past on the largest pool table you have ever had. While pointing East South East trying to work two stations South West I also worked two stations due North! One of the Northern Stations asked later why my signal improved and I replied that my antenna was now pointed North.

As most of my energy was aimed at a Water tank 100 Yards away the Northern Stations had to work me on a triple bank shot. I had a lot of help from other Stations in getting started, and Sunday's weather brought additional challenges. I have become a novice again in the intriguing world of 10 GHz SSB contesting.

See the report on last weekends Microwave Contest by Ed, W6OYJ, in this months Scope for Contest activities and details. Ed has written several programs in Basic including one to measure the radiation levels of microwave equipment to meet the new F.C.C. maximum field strength limits for microwave equipment that are effective on 1-1-1997.

I hope Ed will help us in this area with the rest of the Amateur spectrum having spent many hours researching the New F.C.C. document that applies to all transmitting equipment not just Amateur Radio. It is 107 pages long.

Ed is also the main liaison between the San Diego and San Bernardino Mi-

P A R C BOARD

The board meets at 7pm on the Thursday of the week following the club meeting.

Pres: Art McBride, KC6UQH, 747.0253

VPres: Sybil Allbright, W6GIC, 278.4284

Sec: David Doan, KC6YSO, 286.4888

Treas: Jo Ashley, KB6NMK, 741-2560

RptT: John Kuivinen, WB6IQS, 727.3876

SCOPE: Stan Rohrer, W9FQN, 749.0276

MSh: Ralph Powel, KC6WAN, 727.7415

Mem: Mike Doyle, AB6QT, 742.1573

Mem: Marv Munster, WB6PKK, 941.9174

VE Program: Rusty, AA6OM, 747.5872
(2nd Sat. ea. mo. Carlsbad Safety Center)

ATV/Edu: Bill, KB6MCU, 582.2313

Editor: Stan Rohrer, W9FQN, 749.0276

30311 Cir R Ln, Valley Cir CA 92082

W9FQN@amsat.org

or KA6FPS@sdcoe.k12.ca.us

PALBBS: Norbert, KJ6ZD, 630.5538

145.050 PktSimplex, 146.700-PktDuplex

WORLD WIDE WEB: Frank, KE6WOE

http://www.electriciti.com/parc

crowave Groups. Thank You Ed.

I have appointed a Committee to review past board policy on Repeater usage. The Committee consists of Stan, W9FQN, Dave, KC6YSO, and Frank, KE6WOE. The purpose is to look at past Board Policy, much of which was developed in the 1980's and make recommendations to our current Board of Directors. If you have any concerns in this area please contact one or more of the members of the committee.

We have the right to be more restrictive in the use of our Repeaters than the F.C.C. Rules require. The last Board approved policy was Nine years ago and many changes have occurred since then, both in the F.C.C. Rules and in Repeater technology.

73, and Enjoy Labor Day
Art, KC6UQH.

+ + + + +

September Picnic

Mike Doyle AB6QT@amsat.org

FOOD: The club will provide "ham" (eating kind) punch, Palomar Mountain Cool Clear Water, plates and utensils but you can bring your own utensils if you don't like a picnic atmosphere.

You will need to bring additional food according to the first letter of your last name and since you are bringing only one dish, bring enough of the assigned food to feed your family plus six more. Hams get hungry!

Please note that you cannot bring (or buy) any alcoholic drinks: beer, wine, hard spirits, etc. This is a park rule enforced by the many park rangers who are prepared to arrest you.

A->F, bring a desert

G->M, bring a hot dish

N->Z, bring a salad

If you have problems in bringing your assigned dish, we suggest that you pick another dish or bring chips, ice cream (iced), apples, etc.

Please take small portions your first time through the serving line so that everyone at least gets a chance at their favorite dish.

Sometimes there are not enough places to sit except on the ground. If you are arriving late, we suggest that

you might want to bring a folding chair along with a folding table and/or a blanket.

PARC can reserve the small pavilions but not the tables next to them ..get there early to reserve "your spot."

RULES: about the same as always.

1) participation tickets must be picked up at the picnic by you or by your representative who must have a written and signed permission slip to pick up the tickets and any prizes that you might win.

2) you will receive tickets (*maximum of 20*) for participation in designated club events from Aug. 1st 1995 to July 31st 1996: meetings(1ea), designated workparties(1ea), repeater site(2ea), heads of committees(5ea), etc.

3) the drawing will be at the club picnic at 1:10pm.

4) you or your representative must be present to win by showing a matching ticket stub with the winning callsign or member's name on it.

5) you are limited to winning only one prize even though your ticket is drawn several times (sorry). Most valuable prizes will be drawn first.

6) you must be a present member of PARC in good standing before tickets can be given to you. New members listed after July 31st 1996 will not have tickets until next year's picnic.

7) the prizes are —

1ea - \$100 gift certificate

2ea - \$ 50 gift certificate

4ea - \$ 25 gift certificates

and MANY assorted small items too humorous to mention: Ham stamp pin, Radio Range Meter, radio books, etc.

Children are welcome but you will need to watch and entertain them yourselves. There is a playground for them near the pavilions and there is a playing field for soccer, volley ball, softball, horse shoes, etc. but you will need to bring all of the equipment needed. There are also hiking trails down to the lake but someone should go with them. Its warm and the "little crawly" things are probably about. Rental boats are at the main dock.

PROGRAM:

Equipment- 2m & 70cm checking of transceivers (frequency & deviation).

Autopatch- instruction on how the autopatch system works, how to use it, and problems you might be experiencing.

ATV- demonstration

Direction Finding- instruction on how to use your HT (handi-talkie) for locating hidden transmitters along with information on DFing beams. A hidden transmitter hunt will be held after the instruction.

SDCTN and ARES- traffic handling forum.

ARRL Membership Information- Harry WA6YOO and Ralph KC6WAN.

Tickets- 1995-1996 can be obtained from Stan-W9FQN who will have his yellow box with him.

Schedule:

0900 arrive and set up.

0945-???? transceiver checking, ATV demonstration(s)

1000 **Traffic/ARES** traffic forum

1115 **autopatch** instruction, Q&A

1130 **direction** finding instruction

1200 **eats** (low cal, low fat)

1200-1259 pick up your tickets

1300 **president's** comments

1310 drawing for prizes

1330 **ARRL** membership info

1345 hidden transmitter **hunting**

1400 **PARC Board** available for questions and comments.

PARC hopes that many of you will be able to attend the club's picnic. It should be a lot of fun ..and you might learn something. The picnic is a great opportunity for you to talk to the board members and club officers, to know other club members, and their families, and to learn more about your hobby in a more personal way ..and receive a participation ticket for next year's picnic if you don't have any this year.

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Condolences to -

K6II-Ed Holm, who lost his wife at the end of July (*de Paul Dorey-WN6K*).

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For Sail

W6NWG@amsat.org



Phone or send ads to your editor before the 20th of each month. Copy your ads after the form used here in. Personal equipment ads are free to members such as listed below and might be "bumped" after 4 mo. for newer ads:

NEW ADS.

(8-22)Triax H354 heavy duty tower, make offer: Ted W6WXS 818-363-6633 Granada Hills, SFVlly.

(8-15) Free Butternut vertical antenna, come and get it, no docs; free 3 or 4el 10/15m beam, no docs: Marvin WB6PKK 747-2223 Escondido.

(8-12) Yaesu 5/25w FT-290R-II w/battery pk & 9-c-cell Radio Shack Hi capacity ni-cad's SSB/CW/FM 2m w/wall charger; 2m SqLoop stack m2 &

Ads sent to our club box 73 in Vista can only be given to your editor twice a month so send them to 30311 Cir. R Ln, Vly Ctr, CA 92082 before 20th of month or W9FQN@amsat.org.

2m SqLoop mobile mag; Astron pwr supply RS-10A; MFJ-208-2m SWR analyzer; \$385 for all: Carl N6HLY 538-5997 San Diego.

(8-6)Astron RS20A 12v pwr supply like new \$65: Wayne W6RWV 724-0777 Vista.

(8-5)Sears arc welder make offer: Mike AB6QT 742-1573 PMt.

(7-17)VCR, Sanyo late model with Beta II and III (6 hour) modes 30 extra tapes, Timer record and remote control \$75.00 OBO: Larry W7HKI 439-5855 Ocsd.

(7-16) Estate cleanout of ham shack and garage ..xmit/rcvr tubes, transformers, speakers, parts & tools: Mrs. Miller 726-6291 or 724-7460.

(7-16)AOR AR-1000 (HT type) scanning monitor 8MHz-1.36GHz + cell, 1000 channels \$250: Bill KD6BFR 480-6805 Escondido.

(7-15)Auttek WM-1 SWR/watt-meter \$60; Wilson DB-43 beam (3el 10m + 4el 15m) one boom \$80: Duane

Commercial Ads in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought. Ads billed Feb., May, Aug., & Nov.

AA6EE 789-3674 Ramona.

(6-4)BNC connector male/female combo (F. chassis mt, M. RG59u coax) \$5+postage: Steve W2MRM 451-5690 SD.

(6-1)ICOM FT-51R 2m/440 dual band HT w/remote hand mic. \$400: Chuck KE6TXQ Pager 1-800-804-9168 Carlsbad.

(5-22)Estate Sears 6hp Roto-Spader \$150; 524D Tektronix Scope \$BO; Underwood Typewriter \$BO; Chippewa Wood Chipper \$300: John WB6IQS 727-3876 Vista.

(5-18)Butternut Ant w/cables etc; Hustler ant w/mount/masts + assortment of tips/coils 10-80m: Joe N6RVO 433-6885 Ocsd.

(04-24)Yaesu FT-5100 2m/440 xcvr like new w/decode & mobile quick release bracket \$550: Dinh KE6KDP 941-1529.

(04-18)Kenwood TS-830s xcvr ex cond \$500 OBO: Tom KE6HRL 741-1364 Esc.

(04-09)Tower 54' crankup + new control motor + HiGain control Unit + HiGain Quad all for \$500 cash: Bob KO6EM 728-4835.

(04-02) Kenwoods a)930 w/tuner \$950, b)220 Scope \$200, c)930 spkr, c)TS130 w/war w/b \$350, d)TS130 tuner w/b \$75, e)2m/241 A/B \$300, f)7850 mobile 50w w/b \$300; Yaesu

Please let me know if you buy or sell so I can take out the ad -Ed.)

FL2100 b/ex tubes \$400; RTTY Commodore cpl AEA monitor \$300 & 1540 printer; MFJ 9410 tuner (E) \$100: Larry W7HKI 439-5855 Ocsd.

WANTED: A few good men/women

(8-3) need information of the modification of a communications monitor, CE-3, for "opening" up the 70cm band: Mike AB6QT 742-1573 PMt.

(7-18)Still looking for Kenwood TH-28A handitalkie manual ..lost phone # of previous contact: Pat KC5NJU 746-1644 Escondido.

~~(7-15)4el mono beams for 15m & 20m: Duane AA6EE 789-3674 Ramona.~~

(5-21)Dead or Mal-functioning



Antenna

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Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. Model RFI-3 \$18 + tax + \$6 to ship.

RF CURRENT METER

Measure the current in your radials, see which ones work and which ones are broken. Check for current on the coax shield, etc. Useful from 1ma to 5amp 1-30 MHz.

Model PCM-1 Clamp-on Current Meter \$125 + tax + 6 S&H.

R-X NOISE BRIDGE

Learn truth about your antenna, & resonant frequency. Adjust it to your operating frequency quickly and easily.

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Tune your tuner without transmitting. Save that rig! Just listen to the Tuner-Tuner's noise with your receiver. Adjust your tuner for a null and presto! You have a 1:1 SWR.

Model PT-340 \$99.95 + tax + \$6 S&H

Please check our complete ads in QST, 73, CQ, and World Radio magazines.

Highway Electronics

305 Wisconsin Ave, Oceanside CA

Call Nick at 967-7225 for confirmation of times open (10am-3pm).

Surplus Items: transformers, meters, sheds, tubes, resistors, racks, cabinets, variable inductors and capacitors, etc.

DEO QSK-1500 RF Pin Diode Unit: Dennis N6KI 271-6079 Sandago.

(05-4)SP-520 spkr cabinet; PC-1 phone patch: Henry WB0YQC 722-

5394 Ocsd (leave message).

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PARC Oct. Auction

Mark your calendars. PARC's annual auction will be at the club's October 2nd club meeting so start looking through your garage and work areas for all those things you would like to sell (get rid of) and bring home loads of cash.

Start saving up you nickels and dimes to buy those special buys that always show up at club auctions. You will find many items that you just cannot live without.

Paul Lackey, N6ISC, is chairman of the Auction this year and if you can help, contact him at the Sep. meeting.

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Callsign Lookup

Bob Gonsett W6VR@amsat.org

Q: "The paragraph containing "www.buck.com" in the PARC August Newsletter gave the impression that one could look up a callsign using that URL, but all I got was a Website, with no callsign access that I could determine. Is a subscription required, or have I overlooked something? Thanks for your help and 73. Stan-KM6MP."

A: To get to the ham call sign lookup page (which will also map a ham's location), you have to click on "Amateur Radio Products" and then click on "Try our HamCall(tm)." If you prefer, you may skip the Buckmaster home page and go directly to the call searcher/mapper with the following URL:

http://www.buck.com/cgi-bin/do_hamcall

I inserted your call and the mapper showed your QTH just west of the Murray Reservoir. No subscription or sign-up required; the service is free.

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VOLUNTEER AWARD

Pat Bunsold WA6MHZ@juno.com

After much deliberation and competition, Tuck Miller KC6ZEC has been selected to be the ARRL Volunteer of the Year for 1996. Remember that the Division covers all of Southern Califor-

nia up to San Luis Obispo and all of Arizona.

Tuck is currently Assistant Section Manager, Affiliated Club Coordinator and Public Information Coordinator for

the San Diego Section. He is also President of

the Amateur Radio Club of El Cajon, and Editor of the SOBARS newsletter and the ARES newsletter. Tuck moderates several weekly NETS on the SANDRA and ECRA repeaters.

As one of the most active and spirited Hams in the Division, Tuck is truly deserving of this award! WA6MHZ, Sec. Manager

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Round Tables

KM6WF@amsat.org Gayle Olson

These are my suggested voluntary rules of rotation on our repeaters. They are akin to a gentlemen's agreement, and just like Robert's Rules Of Order, they are basically very simple but intended to keep communication orderly, polite and respectful.

The down repeater, 146.73, is for meeting, greeting, and chatting especially during commute hours.

When joining a round table, throw in your call, wait, and MAINTAIN THE ROTATION. Remember to whom you need to pass the microphone.

At the end of your turn always state to whom you are turning over the microphone.

If you do not wish to join the round table and if you wish to have a one on one conversation with one of the people in the rotation, tell the person to meet you on the 147.13 or 147.075 repeaters.

During an emergency situation, do not transmit unless asked to do so!

Seriously, during a recent quasi emergency people were on the 146.73 machine chatting about what they knew and who they had heard talking about the situation. Please do not do that.

Keep off the repeater unless it is to say something that is relevant to the situation if you are directly involved. If it is to ask a question about the situation,

be sure it takes no more than 10 seconds.

These voluntary standards would be for the betterment of our club, and repeaters as well as amateur radio.

(These suggestions are in line with previously expressed PARC policy -Ed)

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New URL for RACES Web Pages

Gary Morris garym@noscail

The URL for the San Diego County RACES Web Pages has been changed, although the old URL will still continue to work. The new URL is easier to remember because it's the same as the RACES Internet email domain name except with "www" in front of it:

www.races.sandiego.ca.gov

For many browsers that is all that is required, however some still like to be told to use http protocol and require the full URL:

<http://www.races.sandiego.ca.gov>

Gary Morris Deputy Radio Officer/Digital Comm Internet:

garym@races.sandiego.ca.gov
Emergency Planning Detail (RACES)
Packet: KK6YB @ K6JCC.#SOCA.CA.USA.NA
San Diego County Sheriff's Dept,
URL: <http://www.races.sandiego.ca.gov>

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"Sunny" Oceanside"

Phil Leonelli WF6L pleonel@mail.telis.org

It is with deep regret that I announce the passing of my good friend Joe La-Pointe, WB6HMY. Joe, or "Little Joe" as many of his friends called him was an avid Amateur Radio Operator. He "worked the world" from his modest mobile home in Oceanside using a vertical antenna (grounded into sea water, as he so often mentioned), Swan equipment and a distinctively deep voice.

I met Joe about twelve years ago at my first Palomar Amateur Radio Club meeting. I was a new ham and he took pleasure in encouraging me to get involved in the 8:00p.m. traffic net which he directed for many years.

He also loved to report the amount of rain that had fallen after a storm had passed through his always "sunny" Oceanside.

Sometimes I would join in as he teased his good friend, the late Dora Tuttle, KE7DR, on a daily 40 meter roundtable. From her bedside operating position, Dora would always fire back a sharp remark, only encouraging Joe to continue his teasing.

Joe took pleasure in being the net control for the Sunday ARES net which still meets on 3924. Joe also acted as Net Control for the Mission Trails Net, the Arizona Cactus Net and the Coffee Mug Net.

A few years ago, Joe donated his faithful 1kw Field Day generator to the Palomar Amateur Radio Club.

Joe never replaced his infamous dog "Chico". One club meeting, Dennis, N6KI and I presented Joe with a dog bone for Chico. The bone was about twice the dog's size!

I was at Joe's side when he had to put Chico to sleep a few years ago. I was also at Joe's side when he died quietly on August 15. Joe had very little, but gave so much to me and my family.

He is survived by Glory, his wife of 27 years. I am missing his phone calls and our daily QSO's on the radio already. I know I am a better Amateur and a better person because of my friend Joe LaPointe.

One last time.....

WB6HMY de WF6L

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MICROWAVERS TAKE TO THE HILLS

Ed Munn W6OYJ@amsat.org

On August 17/18 San Diego Area Microwavers headed to their favorite DX sites for the first of two weekends of summer contesting. The ARRL "10 GHz AND UP" Contest has captured the interest of a sizeable number of SD County enthusiasts since it first appeared in 1986. They are out to disprove the old adage that microwaves are only for "line of sight". Judge for yourself, here's what happened the first weekend.

Kerry, N6IZW on Mt Soledad (DM12JU) was joined by Jim, NE6O and "J", KD6PBH. Both Jim and "J" had just completed narrowband (ssb) 10 GHz rigs based on modified Qualcomm

Omnitrac units. Kerry's best DX, with his 10 watt narrowband rig was a bounce shot off Palos Verdes (near Long Beach) to Jack, XE2/N6XQ operating from the Vizcaino Peninsula in Baja California (630 Km).

Jim and "J" were running about 20 milliwatts and were able to work as far north as Castro Peak, 189 Km. The three had many other QSOs including stations in the San Bernardino Mountains and Los Angeles area, as well as local QSOs to Point Loma.

Art, KC6UQH, who recently made a U.S. 10 GHz ATV DX record with his modified 1-watt Qualcomm unit, rigged it for voice ssb QSOs. On Saturday he operated from the Coronado Hills, San Marcos area (DM13KC), and made about a dozen contacts, the best was to XE2/N6XQ by bounce off Palos Verdes.

The direct distance was 652 Km, and the bounce distance was 906 Km (478 miles). On Sunday Art moved the required ten miles and was able to re-contact previously worked stations and some new stations for more contest points.

The new QTH was W4OTP's Encinitas rooftop (DM13GA), overlooking the beach. Art's best DX from this location was WA6OWD in the Tehachapi Mountains west of Mojave, a distance of 242 Km. Helping Art on Saturday was Ken, N6ALA, and on Sunday Chris, KF6ELO, and W4OTP.

Tony, KC6QHP, operated Saturday from Keller Peak near Big Bear (DM14LE). He worked Kerry on Mt Soledad and several stations to the north of his own location before rig problems developed. I don't have Tony's details yet.

Pete, W6DXJ, and Ed, W6OYJ operated 10 GHz narrowband Saturday from Point Loma (DM12JQ) and worked XE2/N6XQ (their first contact) at 613 Km on a surprisingly strong direct overland shot. They could also hear him bouncing from Palos Verdes. They had good success with QSOs to the LA area mountains, direct to Mt Wilson and Castro Peak (204 Km). By bounce off Palos Verdes they worked Gordon,

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WB6NOA/MM several times on his boat off the coast as he moved to new grids. Also by bounce they worked the group of San Bernardino Microwave Society members on Heap's Peak. Ed also had his wideband fm rig and made five QSOs with the Gunn full duplex system, the best DX being K6HLH at 205 Km. On Sunday he moved to Mt Soledad and operated both narrowband and wideband systems. His best narrowband DX QSOs were with



XE2/N6XQ (613 Km) and **WA6OWD** west of Mojave (268 Km). On wide-band fm he worked **KE6ALM** on Santiago Peak (98 Km) and **K1CT** on Point Loma. Ed's visitor/helper on Mt. Soledad was Bill, **KF6BBL**.

Jack, **XE2/N6XQ** in Baja (DL27QP) used his new 6 ft. dish mounted atop his van with a 15 watt TWT. On Saturday he poured a tremendous signal into the San Diego area, a difficult overland path. He also worked very well into the Los Angeles area direct (mostly over water) and made numerous contacts in the San Bernardino Mtns by bouncing off the Palos Verdes Peninsula.

He had some equipment problems late Saturday and had to spend several hours Sunday making repairs, which prevented his moving to other planned sites. On Sunday afternoon he was back on the air and making additional QSOs by bounce off Palos Verdes. (His distance to PV was 768 km...too bad he can't count the total bounce path distance to the stations he worked!). I don't have Jack's info on his additional DX attempts with stations farther north.

Bill, **K1CT** operated from South Clairemont on Saturday and Point Loma Sunday with his wideband fm Gunnplexer rig. He worked **W6OYJ** at Point Loma Saturday and on Mt Soledad Sunday.

Contest scores include 100 points for each different callsign worked, and one point for each kilometer distance of every QSO. Stations can recontact each other as long as one station has moved at least ten miles. You can hear these hams planning their strategies on the Monday evening Microwave Net, 146.730 (-), with Kerry, **N6IZW** as net control.

Plans for the second contest weekend, Sept 21/22 include an attempt to get at least one pair of 24 GHz wide-band fm rigs operating. The SD Microwave Group meets on Monday Sept 16 at Kerry's QTH in La Mesa, and will include a rig tune-up session for the second contest weekend. You are invited to see the equipment being used.

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SDCTN

The 8pm San Diego County Traffic Net on 146.730 still needs assistant net controls for each evening of the week as well as several evening net controls.

This is an excellent opportunity for those in **ARES** and **RACES** to get some practice handling messages in the proper format. You don't want to do your learning on Emergency Nets!

Contact Charles Miele, **N6TEP**, who is a net manager or evening net controls for more information and to sign up to check into nets to take traffic for your area or to conduct one of the 8pm evening nets. The nets usually last 10-20 minutes except in emergencies.

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Ham Help Net

Ivan Kemper **N6OLE** Net Manager

The average check-ins have been 14 with a high of 22 and a low of 8. This is about a 50% improvement over the "old" frequency/time on 147.075.

The subjects covered range from Antennas (most popular), Power Supplies, Batteries, Amateur Television, FCC Rules, Computers, Technical Questions on the various License Exams, Packet, Test Equipment, Home-Brew Projects, and Evaluations of Amateur Transceivers.

The shortest session was 30 minutes and the longest over two hours.

Many thanks to the net control operators who conduct these popular 9pm Thursday nets on 146.730:

1st David Doan **KC6YSO**
2nd Joe Lepine **N6YMD**
3rd Mike Doyle **AB6QT**
4th Barry Canter **KE6PTX**
5th **N6OLE**

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Power Outages

Thousands of homes were without electricity during the recent "floating" power outages throughout the mid-west.

Many thanks to Pat McDonald-**KD6PZB** for stepping in and calling in these areas in the SDCo area to SDG&E for amateurs in SDCo.

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Communicators

kc6zec@amsat.org

Imagine this ...a day at the beach, surf rolling in, kids frolicking in the water..... and ham radio. A great combination. With this in mind, your public service communication skills are needed for a very worthwhile event. The eighth annual *I love a Clean San Diego Beach Cleanup* is scheduled for September 21. The hours are from 0800 to about 1300 hours. You will need a two meter handheld, some extra batteries, and possibly headphones.

Take a look at the following locations. If you see one you could help out with, give me a call at 475-1540 or at my packet **kc6zec@wb6dgr**:

Carlsbad Aqua Hedionda, Carlsbad Pine St., Coronado Beach, Crown Point Shores, Del Mar, La Jolla Cove, La Jolla Shores, Lake Hodges, E. Mission Bay (De Anza Cove), E. Mission Bay (Info Center), S. Mission Beach, Moonlight Beach (Encinitas), Oceanside City Beach, Ocean Beach (Dog Beach), Pacific Beach, Shelter Island, Solana Beach (Fletcher Cove), Tijuana Estuary, Torrey Pines-Penasquitos, Tourmaline Beach (north of Pac Beach), and Ventura Cove (Mission Bay Area).

We don't want to cancel like we did last year. That is bad pr for ham radio. A group that is ready and willing to help the community. What are you waiting for?? Sign up now, and expect to have a great time!!

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San Jacinto Hike

Bob Gonsett

W6VR@amsat.org

Here is the list of participants in the San Jacinto hike of August 24, 1996:

W9FQN-Stan, **W6VR**-Bob,
KE6ZLY-Glenn, **KJ6NA**-Tom,
KE6WOF-Kevin, **KF6BFI**-Ted,
KE6NPN-Roland, **KF6AVG**-Bill, and
KF6DXX-Ed.

Helpful Calif. State Rangers:

KE6WHJ-Lorraine Aubert
KQ6FV-Eric Hanson

The hike started at the Tram drop off at 8,400' and most ended up at San Jacinto Pk, 10,804'.

Kevin and Ted were caught in a fierce rain and hail storm on the east side of the mountain while Tom and Glenn ended up quite wet with dead HT batteries. A good time was had by all!!

Technical and Operational Things: Repeaters, Autopatches, News, etc.

Autopatch Problems?

If you have been having problems with using the autopatch system, be sure to attend the club's picnic on Sunday, **September 15th** where the autopatch techs will be there to answer your questions.

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Work Parties

Stan Rohrer W9FQN@amsat.org

Next workparty will be Sunday, **September 8th**. Bring 5gal of water for the little trees, lunch, drinking water, and sun cream.

Scheduled: painting, 224.94 tower adjustments, watering plants, and technical maintenance. How about coming up to help? You get a FREE tour and clear mountain air!

(8-11) ..another great day on the mountain.

John Kuivinen-WB6IQS and Bob Wickord-KA6NZL worked on the repeaters. The 146.7 packet duplex repeater's power was adjusted upwards by 3db, relays cleaned on the autopatch system because of suspected intermittent problems, and several receivers were adjusted to their proper frequency. Repeaters were checked for which DC bank they were attached to (A or B).

Less Silva-KE6QIM took on the messy job of repairing the freezer building roof with asphalt and fiberglass matt.

Bob Wright-KS4JH, Raymond Manskey-KE6YYA and wife Patricia, and Judy Lombardo-KE6BZM, and Lief Hendrickson-KQ6HE helped with moving the 800 pound counter weight to the 220 antenna pole and also helped with the irrigation project.

Glenn Paden-KE6ZLY and wife, Gloria, kept the 35 gallon water tank full so that the drip system could function properly to keep all of the little trees wet.

Zac-KE6MQB and Dennis Markham-KE6MQC adjusted all tower

guys for proper tension and discussed the new additions to the alarm system.

David Doan-KC6YSO, Bill Bennett-KC6YOX and charming daughter Torrey, checked out the deviation of the 6m repeater and "earthquake proofed" it.

Stan-W9FQN helped out where needed.

(8-?) Don Waters and Stan-W9FQN took down a donated 15m beam and Ham-M rotator at W6TDC's QTH. It took longer than expected.

(8-18) Jerry Houser-WB6FMT and Stan-W9FQN visited the two lower autopatch entry points to install needed modifications. In the process it was discovered that there was a better way to do them and modifications were made in the field by cutting several traces and adding several wires. The same mods will be made in the upper entry system.

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Autopatches System

Jerry Houser WB6FMT@amsat.org

We are working on an automatic computer dialing system which should make the autopatch system easier to use and allow for a few "bells-and-whistles" for the automatic dialing of certain numbers.

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Autopatches - Use

Stan Rohrer W9FQN@amsat.org

Please do not attempt 911 calls on any of our autopatches.

The club has had too many problems with 911 calls where the mobile station has dropped out of the repeater while the call was in progress. We hope to install an alternate to the 911 number before the end of the year.

If you have a problem, obtain all of the facts and pass them on to a base station who can complete the call properly.

All autopatches have been returned to normal operation during the evening hours.

Packet News

Ted Stork, KD6AKT, PALBBS

I will have my portable packet station at the September meeting for those interested in Packet. It will be set up in the RACES/ARES emergency room across from the meeting hall. If you have questions, please feel free to stop in for "free" advice.

The Tuesday evening Packet Voice Net at 9pm see you there!

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Fire Fire !

Recent fires in the San Diego Co. area have burnt mountain tops and threatened many amateur and commercial sites.

How would PARC survive with a fire sweeping the site?

We would loose all of our antennas, heliax cable, and possibly the tower itself.

We would probably loose the block building which has a wood frame roof and everything in it.

We would loose the main repeater building (freezer) since it has very light metal on the outside. That would mean the loss of our voice repeaters and autopatch system.

We would loose the storage trailer and the battery building.

It looks like **everything** would be destroyed except for the 18 ton cement tower base.

One of our non-used small metal buildings (large enough for 3-repeaters) is sunk about 3' into the ground and we are now thinking that to survive a fire we need a building with about 60% or more dug into the ground with the fill dirt up over the sides and possibly the top.

We are working towards having spares of most items: repeaters, towers, cavities, antennas, etc.

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Emergency Power *(history)*

John W. Kuivinen, P.E. WB6IQS@amsat.org

A Brief History of PARC Auxiliary Power

In the early days of the Palomar Amateur Radio Club when we only had a few repeaters, we had one heavy duty recreational vehicle battery that was



about 200 ampere hours (type 8D). It was designed for deep discharge and long term use and if the power failed, the repeater was relay switched to the reserve battery.

As time progressed we added more repeaters and added more 8D batteries. Until about 4 years ago we had three 8D batteries on line as battery backups. They were OK for the application, but they had a relatively short life (3 years typical standby service) and each battery required its' own separate charger.

BATTERY CHARGERS: The type of battery chargers we had on line were the reverse current, percentage duty cycle chargers. They would discharge the battery slightly on the negative cycle and heavily charge the battery during the positive cycle

The idea was that gasses would not build up in the battery plates and the life would be extended. I don't know if the theory really is that good, but our last 8D battery is still OK after about 5 years. We regularly test all the batteries under load (about 30 amps) and check the sulfuric acid for good chemistry (pH value).

MOUNTAIN TOP SERVICE: Small batteries (if you can count one hundred pound 8D batteries as small) have a problem in that they can freeze during exceptionally cold weather. The batteries on Palomar Mountain are protected during the winter with a heater blanket that is controlled by a thermostat and runs on AC power. If the power fails the current drain in the batteries will heat the batteries during the discharge cycle and keep them from freezing.

For an extended outage the batteries would have to be recharged, but only once did we have an extended outage where we had to turn repeaters off to conserve power. This was during the October 1987 fire.

NEW BATTERY SYSTEM: About five years ago we received a donation of fourteen two volt heavy duty batteries. They are 2.17 volts at 1680 ampere hours for each cell. A 13.02 volt battery would then consist of 6 cells and would be about 7 feet long by 1.5 feet wide x 2.5 feet tall. Calcula-

tions from the manufacturer's data sheets shows that 1.5 amps of continuous trickle current is required just to maintain the batteries at good health. The charger we presently use is not voltage regulated but can charge the system at a maximum of 25 amps if required.

The cells have a nominal life of 20 years (they were made in 1976!) but will operate for much longer than that at a reduced ampere hour capacity. We received these cells as scrap. Companies regularly replace these batteries before their nominal end of life points are reached.

A new charger is in the works. It will be voltage and current regulated and will charge the batteries at a maximum of 40 amperes. This will give us a faster recovery if the power fails and we have another extended outage.

Unfortunately we have only one of these chargers and we need two, one for each bank of batteries. Another one may become available in the near future, but if anyone has any large current and voltage regulated supplies available we could sure use another one.

AUXILIARY BATTERY VOLTAGE: Each standby battery consists of seven cells. We have two 1680 ampere hour standby batteries for a total of 3360 ampere hours on line. A normal battery would consist of 6 cells (2.17 volts / cell x 6 = 13.02 volts DC) However with seven cells the nominal voltage is 15.19 volts instead of 13.02 volts. We do this for several reasons:

1. The manufacturer rates the 1680 ampere hours at 1.0 volts end of life. Our radio equipment will fail at about 11 volts so we could never use all the power that is normally available in the batteries.

2. There is IR (Current x Resistance) drop in the lines. At 20 amperes drain for 10 gauge wire the line drop is significant. For 120 VAC household voltage 2 volt of drop is no problem. Since IR drop is a constant irrespective of the initial voltage, 2 volt of drop out of 13.02 volts is a disaster. I realize that we could have used larger gauge wire but #2 or #0 large gauge wire was not available at that time.

3. The radios are designed to operate at 14.5 volts steady voltage and are typically rated at a maximum of 16 volts. Motorola and GE mobiles typically are used. Initially the battery voltage will be high but it will fall rapidly to the nominal 14.7 volts. The transmitter final amplifiers are our only problem. The receivers and transmitter exciters have voltage regulators that normally drop the voltage for critical circuits to 9.6 volts.

OPERATIONS WITH THE NEW BATTERIES: These new batteries have a separate "bunker" where they are kept away from the radio equipment. The are too large to have a heater blanket, but this should not be a problem due to their large thermal mass and the fact that we should never be able to fully discharge them.

Estimates of emergency service drain for 5 repeaters with high usage still shows that these batteries should last a minimum of 10 days without charging. If we conserve power or turn off parts of the system it could go much longer than that.

FUTURE OPERATIONS: We have on tap another 24 cells worth of similar NEW cells. We need a new building to house them and the racks to support them during a significant seismic event. It's no good to make an emergency service repeater that falls apart if a "middle one" happens, like a 6 or a 7. If the "big one" occurs, like an 8 or a 9 then probably the antenna tower will be down and the buildings will be lost. We have to work with what is available and what we can afford.

It is a lot of work, but the time spent is usually educational and often fun. We can use additional help on the work parties even if it is just brush clearance.

I realize that not everyone is a radio tech nor does everyone want to be a tower climber. But if you use the repeater system you should help support it via cash (joining the club) and if you are physically able to help at the site please do so.

(The first set of large cells (14) were obtained thru Larry R-WA6UTQ and the newest set(24) of unused cells was obtained by Mike-KD6VHI at a very

HAM RADIO OUTLET

KENWOOD
rf CONCEPTS
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Larsen Antenas
TEN-TEC
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cushcraft
AEA
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and
others too
numerous to
mention!

Drop in to see our
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Directions: On 163, take Clairemont Mesa Blvd. off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and HRO sign. Be sure to see our equipment in action on real antennas.

reasonable price. Each cell weighs 350
pounds. New cells cost almost \$1,000
each -Ed)

+ + + + +

Tournament of Roses

Ellen Utschig N6UWW@amsat.org

Amateurs who are interested in
joining the Tournament of Roses Radio
Amateurs (TORRA) should contact me
immediately for more information or
call Cliff Ford, KB6IA, (213)257-3293
and/or send your \$5 dues to TORRA,
P.O.Box 93124, Pasadena, CA 91109-
3124. Stan-W9FQN will have a sample
application at the September club meet-
ing

TORA provides communications
for the Tournament of Roses parade
each year and several of our club mem-
bers help with the communications for
the parade.

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PARC Web Page

Frank Littlebury KE6WOE@amsat.org

Those with articles or items of inter-
est can post them on the club's Web
Page. E-mails are preferred or files in
plain ASCII text form. We can be found
at <http://www.electriciti.com/parc>

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Information Search

(etc.)

Bob Gonsett W6VR@amsat.org

The Union Tribune Archive is on-
line (<http://www.uniontrib.com>).

The short way is -

<http://www.uniontrib.com/utarchives/index.html>

Put in a key word or two and their
computer will produce all UT articles
with those words since 1/1/93! (this is
a great way to track down all "ham re-
lated" articles and suspect that other
newspapers have the same service! -
Ed).

I have also found a very nice site for
earthquake info - it draws maps too:

www.civeng.carleton.ca/cgi-bin/quakes

Please be advised that the Buckmas-
ter ham call sign lookup page AND
MAPPER is working again, but the
MAPPER only works some of the
time! The URL is:

http://www.buck.com/cgi-bin/do_hamcall.exe

This morning I tried a few friend's
call signs and the mapping routine
worked all of the time. However, when
I used my present and past call signs
(W6VR & WA6QQQ), the mapper
would not "come up." Very interesting.

There is another valuable mapper
that accepts street addresses (anywhere
in the U.S.) and plots them on an elec-
tronic map (and you can change the
scale). This URL is:

<http://www.vicinity.com/yahoo>

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Gate 1 + 2 News

I have received my late uncle's call-
sign, W3LFR, under the Gate 1 pro-
gram. He was instrumental in helping
me obtain a license (provided me with

a Hallicrafters HT-17 CW transmitter)
and launch an engineering career in the
early 60s. (Gary Albeck) ex: WA3ETO

DeW6VR@amsat.org

8/22/96: The FCC has announced
that Amateur Radio Vanity Call Sign
Gate 2 will open September 23, 1996.
This is the gate where Extra Class oper-
ators may request special call signs.

There is expected to be a mad rush
for the rare 1 X 2 calls.

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NiCad Lady

The NiCad Lady, Grace Frisk,
N6WPA, has changed telephone num-
bers. Check her ad on page seven for
up-to-date information. She does all
types of replacement and new nicad bat-
teries and many times can deliver your
hearts desire at club meetings.

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ARRL Board Mtg(#2)

As an assistant SWDiv Director,
your editor receives copies of the
ARRL Board of Directors meetings.

Club members may inspect these
minutes at club meetings. I usually sit 5
rows back on the right side and have
my large yellow file box beside me.

There were several motions by our
South West Division Director, Mr.
Fried Heyn.

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C U at the PICNIC!

PARC NETS (16/37)

All 146.730 8:00pm Traffic Net (SDCTN)

All 147.075 10-11pm MCW contacts

All 147.130 10+ pm King Henry's Net

(open to all facetious amateurs)

Sun.146.730 8:30am AREmergency Service

Sun.146.730 10:00am Sailor's Net

Sun.147.075 8:45pm MARA Net

Sun.146.730 9:00pm This Wk in SDCo.

Mo.147.130 6:45pm EVAC (2nd/4th)

M-F147.075 7:00pm Morse Code Net

Mo.146.730 7:15pm RACES sub Net

Mo.146.730 9:00pm Microwave Net

Tue.146.730 9:00pm Voice Packet Net

We. 146.730 9:00pm Spanish (2nd/4th)

Thu.146.730 7:00pm Young People's Net

Thu.146.730 9:00pm Ham Help Net

(electronics, computers, antennas, license theory, etc.)

Fri. 146.730 9:00pm Hiker's Net

Inside:

WB6HMY, Sept Picnic,
GenClass, APRS Mtg,
AGOGO, SickCall, Pres,
For Sale, Call Signs,
KC6ZEC award, Round
Tables, URL RACES,

Microwavers, Ham Help
Net, Power outages, San
Jacinto Hike, Clean
Beach, WrkParties, Patch,
Pkt News, Fire, EmgPwr,
Roses, WebPg, Gate1/2,
NiCadLady, y mucho mas-

Membership Application Dues \$12

Amateur (circle)

Call Family \$21

Membership: New / Renewing (circle)

First

Name

Last

Name

Street

Address

City

State+Zip

Home

Phone

Date Ham**License Expires**

License Class N T T+ G A E (circle)

Family Membership (name + call)**Sponsor's Call**

(not required)

E-mail Adr:

(09-96)

(if checked) LOOK AT ATTACHED AUTO-PATCH SHEET. NOT CALLING PROPERLY!

July SCOPE helpers: Ralph-KC6WAN,
Harry-WA6YOO, Jo-KB6NMK, Larry-
WA6UTQ, Art & Anita-KB6YHZ/YHY,
Bernice-N6WQR, VL-KE6DED, Lee-
KQ6CB, Paul-KF6US and Stan-W9FQN.
Started at 12pm and ended at 2pm. ..and
were those low fat cookies good!

Mail the application (or copy) with your check
to PARC, P.O.Box 73, Vista, CA 92085-0073
or give to our membership chairman at
meetings. We prefer checks: you have a record.

Dues are \$12/yr. including \$3 for SCOPE (\$4
outside SDCo), or \$21/yr for a family all living
at the same address. Consider paying for 2-3yrs
at a time to reduce the work for the membership
chairman.

Name, call, and complete address are
required. Telephone number is required but may
be unlisted in roster if you prefer.

For notification of acceptance and an autopatch
information and code sheet, send a Self-
Addressed-Stamped-Envelope (SASE) with
your phone number on the inside flap with your
application or the receipt of the next newsletter
mailed the last week of each month will be your
only notification of membership..

**Meetings 1st Wednesday
of each month at 7:30pm.**

OPEN REPEATERS / CLOSED**AUTOPATCHES, PALOMAR****Mt. REPEATERS (W6NWG)**

PARC Trustee of W6NWG: AB6QT

*52.680- W6NWG, -0.5 MHz

Autopatches(4): 146.730-, *147.075+
*147.130+, *449.425-PKT: 145.050s (PALMAR-1) Open
(linked to PARC 9600 METROLINK)
146.700-(Duplex Pkt) PALBBS/EMG use
145.050/146.7- (W6NWG/PALBBS)

ATV:915 wbfm, 919AM, 2441.25 wbfm

Intercom: 144.390 PL 79.7 nbfm

OUT: 1241.25 MHz AM

OTHER: *224.38- & *224.94- KK6KD
*224.90- WD6HFD (220Club)
448.00- WB6FMT (123.0PL)
*146.175+ WA6IPD, Falbrk
* = PL of 107.2 Hz<http://www.electriciti.com/parc>**SCOPE, US Postoffice #076530**

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Membership \$12/yr. including \$3 for

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renewing
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several
years.**

part with their beloved treasures ..and wives jump for joy at seeing them leave and the money come in ..and buyers eyes light up with glee with each new purchase as they successfully buy something they can't live without ..and then bring back next year.

Art-KC6UQH, hancho (el jeffe), is promising dancing girls which Dennis-N6KI, former auction chairman, never produced ..promises, promises!

Art-KC6UQH has consented to be our auctioneer and will be assisted by others too humorous to mention.

Auction rules have again been approved by PARC's Board and are essentially the same as last year:

- 1) 6:00pm, sellers sign-in, tag equipment.
- 2) 7:00pm, buyers sign-in and bidders receive identification flags. Inspect equipment before the auction so you know what you are bidding on
- 3) PARC receives 10% of the sale price and there is no fee for buyers or sellers. Donations to PARC are accepted.
- 4) All monies are paid to PARC.
- 5) Sellers(s) may set a **minimum bid** on their items.
- 6) Seller is responsible for removing any items not sold.
- 7) PARC does not guarantee the condition of any items sold.
- 8) You don't have to be a PARC member to participate in the Auction so invite your friends to join in on the fun.
- 9) Sellers will not be paid their money until all monies have been collected that evening so bring an SASE (Self Addressed Stamped Envelope) if you want the check mailed to you the next day ..or pick it up at the next club meeting. Those wishing to hang around until the "bitter end" can leave with their check "in hand."

PARC assumes no responsibility for items you place on the table so make sure they are well marked with you call.

See you at the Auction!

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Treasurer \$\$,\$\$\$.\$\$

Jo Ashley, KB6NMK@amsat.org 08/31/96

Cash & Bank Accounts \$15,764.50

Pre-paid Dues, obligations -\$ 9,473.00

Equipment, projects fund - \$ 6,391.50

Past totals: July \$15,407; May: \$13,708; Apr. \$13,466; Mar \$13,300; and Jan. \$13,388.

Club members are invited to look at the treasurer's detailed reports at Board meetings or at club meetings if you contact me before the meeting so that I can bring the month(s) you are interested in seeing.

I read to the Board all checks written during the previous month at each Board meeting. Future expenditures are voted on at each Board meeting and are listed in the SCOPE.

Future expenditures include AC line filters for the repeater site, replacement cavities (filters), spare antennas, and trailer improvements.

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Board Meeting

Board meetings are always held on Thursday at 7pm on the week following the club meeting at various Board Member" QTH's. All members are welcome.

The 7pm meeting was started by VP W6GIC at 7:13 with: KC6UQH, W6GIC, KC6YSO, KB6NMK, WB6IQS, W9FQN, KC6WAN, AB6QT & WB6PKK.

Discussed/Approved: **small bills approved**; programs; Nov. Mtg. conflict; election; **nomination committee**; membership 801; **auction times**; picnic; SCOPE items; 1kw UPS donation N6FMK; **6m beam use approved**; 146.73 & 147.13 repeater reports; 145.05 upgrade; donated cameras; \$50 **Newsline donation**; N6GFH 144.390 ATV use complaint; Hats and Badges Report; **Sec Report**; RoundUp Missile Park; ham class report; etc.

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Many Thanks To:

Goodie/Coffee Table: On the coffee table were Art-KB6YHZ, and zzz-KE6BUE.

Those bringing goodies: Bill-KM6PY, Paul-N6ISC, George-W9STV, J-KD6PBH, and Bernice-N6WQR.

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PARC VE Program

Rusty Massie, AA6OM 747.5872

1249 Nordahl Rd., Escondido, CA 92026

SANDARC VE testing locations are

now charging \$3/session. You must have exact change! PARC testing is the **2nd Saturday** of each month at the Carlsbad Safety Center in Carlsbad at 9:30am. Contact me seven days before the exam date so that I can have the proper test(s) available for you.

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Long AGOGO (history)

K6HAV / KI6JM / W9FQN

(10-95) Attendance Sept. 151 ..club auction ..81 at Sept. picnic ...**KI6JM**, **KM6WG**, & **KB6NMK** appointed to nominating committee ..list of experts ..**N6TEP** letter on Volunteers ..60yr article ..Larry-**WA6UTQ** participates in ARRL Ed Workshop ...

(10-91) ..Sept Mtg 98 attending ..program was on AMTOR by **KC6OOE** ..participation point plan discussed ..nominating committee looking for replacements of president **W9FQN** and Jack **KI6JM** ..**WB6FMT** has finished Vista patch phase 1 and starting work on the remaining two patches ..more info on autopatches ..4 columns of ads ..**N6QVW** works on 440 cavities ..active climbers are **KI6TG**, **W9FQN**, **KC6KCQ**, **N6GZI** ..auction discussed ..17 students listed on the Young Ham's evening net ..meetings are at Lincoln Jr. HS, Vista ...

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WV6K - Rick

Rick Risley was in SDCo in September looking for past friends on .730. His address is 15-681 N. Puni Mauka, Pahoa, HI, 96770 & e-mail of -

RRISLEY@Juno.com ...and ...

rick@interpac.net

"The last one is located here on the Big Island."

Rick was one of our tower climbers years ago and was noted for his use of a Gorilla Hook instead of a regular safety belt. He used to work on hi-rise steel building projects.

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Correction:

The September SCOPE repeated a 9-95 error in the AGOGO section. Johr, Campbell, **W6HSZ**, is alive and well. The SK mentioned was a sound-alike

call, **W6HFE**, Frank Rammey.

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AC6XX

Lorraine Aubert now has a new callsign to go with her new license. Lorraine is one of the many licensed park rangers on San Jacinto Peak that have been so friendly with PARC hikers

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President's Wave Length

Art McBride, **KC6UQH@amsat.org**

I have appointed the **nomination committee** of PARC Officers for the 1997 year. The Committee Members are Nash, **W6HCD**, Jay, **KD6PBH**, and Allen, **N2DCA**. The recommendations of the nominating Committee will be announced at the November General Meeting. After the announcement Nominations will be opened to the General Membership. Nominations from the floor (General Membership) require a second and the person being nominated must be willing to serve for the position.

The Elective Offices include President, Vice President, Treasurer, Secretary, and Two Directors. The positions of Membership Chairman, Scope Editor, and Repeater Technical Chairman are appointed by the President elect.

Nominations will be closed at the November General Meeting and the Members nominated by the Nominating Committee and by the Membership at the November General Meeting will stand for election by the General Membership present at the December General Meeting.

The new Board of Directors is in-

PARC BOARD

The board meets at 7pm on the Thursday of the week following the club meeting.

Pres: Art McBride, **KC6UQH**, 747.0253
VPres: Sybil Allbright, **W6GIC**, 278.4284
Sec: David Doan, **KC6YSO**, 286.4888
Treas: Jo Ashley, **KB6NMK**, 741-2560
RptT: John Kuivinen, **WB6IQS**, 727.3876
SCOPE: Stan Rohrer, **W9FQN**, 749.0276
MSh: Ralph Powel, **KC6WAN**, 727.7415
Mem: Mike Doyle, **AB6QT**, 742.1573
Mem: Marv Munster, **WB6PKK**, 747-2223

stalled after the election at the December General Meeting and will assume their duties of the operation of PARC Inc. at the close of the December General Meeting.

It is the duty of the Nominating Committee to review the performance of the Officers serving currently ask if they will serve another term and recommend replacements if they decide it to be necessary.

They do not share with anyone, myself included, their decision, until it is announced at the November General Meeting. No Member of the Nominating Committee can be nominated for any Office for the coming year. If you have any concerns please let them be known to the Nominating Committee.

I had a great time at the **PARC Picnic**. Mike, **AB6QT**, did a splendid job of organizing it. Barbara, **KA6FPS**, and Barbara, **KE6ECD**, handled the food.

Art, **KB6YHY**, and Anita, **KB6YHZ**, provided plates and Coffee. Bob, **KA6NZL**, and Mike, **AB6QT**, did radio testing. Pat, **KC6VVT**, APRS demo, Ken, **N6ALA**, ATV 10GHz demo, Ted, **KD6AKT**, Packet demo, Stan, **W9FQN**, T-Hunt and Tickets, Sybil, **W6GIC**, Prizes, and Jeff, **KC6PVN**, brought a volley ball net and equipment. Their was plenty of food and everyone had a good time. Thank-You to all that helped to make this years Picnic a success.

I have volunteered to be the auctioneer for the October General Meeting and **Auction**. Steve, **WA6CDU**, who has done a excellent job in past years will be out of town and not able to do this years Auction. Sybil,

VE Program: Rusty, **AA6OM**, 747.5872
(2nd Sat. ea. mo. Carlsbad Safety Center)
ATV/Edu: Bill, **KB6MCU**, 582.2313
Editor: Stan Rohrer, **W9FQN**, 749.0276
 30311 Cir R Ln, Valley Ctr CA 92082
W9FQN@amsat.org
 or **KA6FPS@sdcoe.k12.ca.us**
PALBBS: Norbert, **KJ6ZD**, 630.5538
 145.050 PktSimplex, 146.700-PktDuplex
WORLD WIDE WEB: Frank, **KE6WOE**
<http://www.electriciti.com/parc>

GPS Display Kit

- displays lat-long, time, number of satellites
 - 2x16 LCD module with LED backlight
 - connects to GPS receiver serial output
 - recognizes NMEA 2.0 GPGLA lines
 - computes and displays 6-digit grid square
 - low current draw (13mA without backlight)
 - complete kit with PC board for \$45
 - use as output for Trimble "mushroom" or as a remote display for handheld GPS unit.
- For more information, or to reserve your kit, contact J. Goldberg, **KD6PBH**, via internet: j@harper.com; voice: 619.990.9046

W6GIC, will open the Meeting to help save my voice.

Paul, **N6ISC**, Auction Chairman is still looking for people to help him with this project. Please note that the Meeting will start early in order to accommodate the large volume of items to be auctioned off.

Last year we had over 250 Items and we expect more this year. This is a fun time for all and you get to take home some new pre-owned treasures and relinquish some of your own. The Club gets 10 Percent of the proceeds and maybe some one will buy a "boat-anchor" for Pat, **WA6MHZ**, to take home. I think he did Harry, **WA6YOO**, a similar favor a couple of years ago. FUN, FUN, FUN at the PARC Auction. Do not miss this one!

Our **146.730** Repeater has a new clear voice Thanks to the efforts of Mike, **AB6QT**. Mike has built a new repeater and installed it this month. The old one is at Mike's QTH and will be refurbished for a spare replacement unit. This is our prime Repeater. It receives more than three times the use of our other Repeaters. It carries most of our Club nets and understandably it needs more servicing than our other Repeaters. Having a spare will help keep this important Repeater on the Air. Thank-You Mike.

Bob, **KA6NZL**, is currently testing a new replacement for the **147.130** Repeater. Look for this one in the next two months. Bill, **KB6MCU**, donated a Motorola Micor Repeater, not a mobile unit for this Repeater. It will have the

new style controller that is currently used on the 146.730, 147.075, and 52.68 Repeaters. Thank-You Bob and Bill.

Jerry, **WB6FMT**, did a splendid job in reworking the **autopatch** system to disallow the use of 911 which had caused us some problems earlier this year because of misuse by a non-member. As a reminder please carry a list of emergency numbers to contact Sheriff, Police, California Highway Patrol, and Fire departments. For those of you that are Marine/Maritime Mobile I suggest you add the Coast Guard and Harbor Police to your list. John, **WB6IQS**, has found several Lap-Top Computers and Stan, **W9FQN**, is working on a new program to Speed Dial those numbers as well as make calling areas automatic. Also we will need this system to help us with the new area code to be added next year to our local phone system. Thank-You Jerry, John, and Stan.

Ralph, **KC6WAN**, is having to re-view our **Club Roster** and correct some of the addresses to make the new Bar code program work. I has come to his attention that some of the Zip Codes and addresses do not match up. Stan, **W9FQN**, and Ralph have spent many hours getting ready for the new Postal regulations we must comply with in order to keep our Second Class Mailing Permit. This has been complicated by having rule changes from the Post Office occurring every time we contact them. Ralph and Stan have been to three two hour seminars on how to comply. Each has been to "clarify" the previous one and they both deserve a "Medal of Patience" for dealing with our largest U.S. Government Owned Corporation. Thank-You Ralph and Stan.

Please help us keep our Club Roster up to date, and check your mailing label to be sure it is correct. Also take the time to check your Call Sign and phone number in our Club Roster.

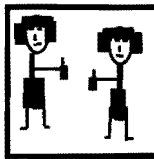
Many Call Signs have changed with the new FCC vanity Call Signs being issued. If your Call Sign has changed re-

cently use both Calls with the old one in (parentheses) when you sign in at Club functions. We do not want you to miss some of your hard earned tickets to next years picnic.

Carol, **KF6EFN**, and Lori, **KE6GSK**, expressed an interest in hav-

ing a **YL Net** on one of our PARC Repeaters. I am told by Stan, **W9FQN**, that we had a YL Net when he first joined PARC. Carol has proposed an informal type of Net on 147.130 every Sunday at 2:30 P.M. Please contact Carol or Lori if you are interested in reviving and or participating in a YL Net. Make sure you contact Carol or Lori before our October 10th Board meeting where the board will consider the approval of a YL Net.

73 & **Happy Halloween**, Art, **KC6UQH**.



On the Reservation

Barbara Rohrer-**KA6FPS** has been appointed principal of the new (really quite old) **Vivian Banks** (an Indian name) Charter School on the **Pala Indian Reservation** in Pala. Pala is located approximately six miles east of I-15 on road 76 on one of the roads to Palomar Mountain..

The Pala Mission was an Asistencia (helper) Mission for the coastal San Luis Rey Mission in Oceanside which was founded in 1810 by Catholic Fathers. It served the inland Indians of the Luiseño tribe and the Cupeños from Warner Hot Springs who were moved in a "resettlement" program by the US Government to the Pala Reservation in 1903.

Many of the school room walls are of two feet thick adobe with massive cedar beams two feet in diameter dug by the Indians off of Palomar Mountain in 1903.

There are approximately 145 students in grades K-5 with 60% of the students being Indian and 35% Spanish speakers.

You are invited to see some of California's early history: the very active Mission Church and the newly re-

activated old mission School serving youngsters who live on or near the Reservation.

If you have some spare time, you might consider visiting the Mission and the the new school. If you (male or female) have even more time, they would appreciate a couple times per month volunteer readers (listeners) for small reading groups, someone with a "green thumb," yard duty and playground help, computer helper, etc. There are computers in every room and a special computer room for whole class work.

Call Barbara at 742-3300 for more information on how you can help the school where assistance will always be greatly appreciated.

+ + + + +

CA QSO Party

Ellen Utschig **N6UWW@amsat.org**

Harry has graciously offered his shack (which is Class A #1). Alan Alcorn, said we could use his call, **AC6FL**, and I jumped at the opportunity to turn it into **All California Six Foxy/Fine Ladies**. Alan & his wife Teresa, a sorority sister of mine, got their licenses to follow his folks as they cruise around the world in their sailboat (another story).

The contest starts Saturday, October 5th at 9am and lasts for 30 hours.

Anyways, here's the poop on the contest. It's put on by the Northern CA Contest Club & the flyer they put out says: This is the chance to feel like rare DX. This is one operating event where everyone comes looking for YOU! The object: Stations outside CA work as many CA counties as possible (58). Stations in CA work anyone.

The exchange: CA stations send QSO # and county, others send QSO # and state, province or Country. Points: each complete non-duplicate phone contact is worth 2 points. each complete non-duplicate cw contact is worth 3 oints. Multipliers: CA stations count 50 states & 8 Canadian Provinces = 58. Others count CA counties = 58. Total score is # of qso's times # of multipliers (58 maximum). Prizes will be awarded.

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For Sail

W6NWG@amsat.org



Phone or send ads to your editor before the 20th of each month. Copy your ads after the form used here in. Personal equipment ads are free to members such as listed below and might be "bumped" after 4 mo. for newer ads:

NEW ADS.

(9-19)JPS NIR-10 DSP Unit - \$165; J-COM Magic Notch Auto-Notch Filter Unit - \$45; Dennis, N6KI 271-6079 SD.

(9-17) KENWOOD TS700SP 2m AC/DC W/sideband xcvr, gently experienced, original box & service-owners manual, stock mike: Mary N6KVN 745-6287 Escondido.

(9-16) HO Scale Train layout- 64sq ft. 4 engines, 30 cars, 15 electric

Ads sent to our club box 73 in Vista can only be given to your editor twice a month so send them to 30311 Cir. R Ln, Villy Ctr, CA 92082 before 20th of month or W9FQN@amsat.org.

switches, 5 siding freight yard, 2 siding passenger yard, 1 siding main line, city with people/cars/buildings/paved roads, airport with paved runway, airplanes, hangers, elev track incorporated to main line, 1 siding cattle yard, turn table for engines, and much more. Still set up to see. Asking \$550. Will help take down and move at no extra cost. Mark, KC6CZO, 739-1533, hisword@ix.netcom.com.

(8-22)Triax H354 heavy duty tower, make offer: Ted W6WXS 818-363-6633 Granada Hills, SFVlly.

(8-12) Yaesu 5/25w FT-290R-II w/battery pk & 9-c-cell Radio Shack Hi capacity ni-cad's SSB/CW/FM 2m w/wall charger; 2m SqLoop stack m2 & 2m SqLoop mobile mag; Astron pwr supply RS-10A; MFJ-208-2m SWR analyzer; \$385 for all: Carl N6HLY 538-5997 San Diego.

(7-17)VCR, Sanyo late model with Beta II & III 6hr modes, 30 extra tapes, Timer record & remote control \$75.00 OBO: Larry W7HKI 439-5855 Ocsd.

Commercial Ads in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought. Ads billed Feb., May, Aug., & Nov.

(7-16) Estate cleanout of ham shack and garage ..xmit/rcvr tubes, transformers, speakers, parts & tools: Mrs. Miller 726-6291 or 724-7460.

(7-16)AOR AR-1000 (HT type) scanning monitor 8MHz-1.36GHz + cell, 1000 channels \$250: Bill KD6BFR 480-6805 Escondido.

(6-4)BNC connector M/F combo (F. chassis mt, M. RG59u coax) \$5 + postage: Steve W2MRM 451-5690 SD.

(6-1)ICOM FT-51R 2m/440 dual band HT w/remote hand mic. \$400: Chuck KE6TXQ Pager 1-800-804-9168 Carlsbad.

(5-22)Estate Sears 6hp Roto-Spader \$150; 524D Tektronix Scope \$BO; Underwood Typewriter \$BO; Chippewa Wood Chipper \$300: John WB6IQS 727-3876 Vista.

(5-18)Butternut Ant w/cables etc; Hustler ant w/mount/masts + assortment of tips/coils 10-80m: Joe N6RVO 433-6885 Ocsd.

(04-24)Yaesu FT-5100 2m/440 xcvr like new w/decode & mobile quick release bracket \$550: Dinh KE6KDP 941-1529.

(04-02) Kenwoods a)930 w/tuner \$950, b)220 Scope \$200, c)930 spkr, c)TS130 w/war w/b \$350, d)TS130 tuner w/b \$75, e)2m/241 A/B \$300, f)7850 mobile 50w w/b \$300; Yaesu

Please let me know if you buy or sell so I can take out the ad -Ed.)

FL2100 b/ex tubes \$400; RTTY Commodore cpl AEA monitor \$300 & 1540 printer; MFJ 9410 tuner (E) \$100: Larry W7HKI 439-5855 Ocsd.

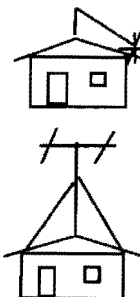
WANTED: A few good men/women

(9-10) QST's in average to good condition: Hugh K4ESQ (call W9FQN 749-0276 for unlisted phone number).

(8-3) need information of the modification of a communications monitor, CE-3, for "opening" up the 70cm band: Mike AB6QT 742-1573 PMt.

(7-18)Still looking for Kenwood TH-28A HT manual ..lost phone # of previous contact: Pat KC5NJU 746-1644 Escondido.

(5-21)Dead or Mal-functioning DEO QSK-1500 RF Pin Diode Unit:



Antenna

Specialties

If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate! Radio systems installation, repair and removal, and interference resolution.

Edward Ross, N6GZI
(619)542-1405

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Box 462222, Escondido, CA 92046

TOROID CORES

Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request. Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. Model RFI-3 \$18 + tax + \$6 to ship.

RF CURRENT METER

Measure the current in your radials, see which ones work and which ones are broken. Check for current on the coax shield, etc. Useful from 1ma to 5amp 1-30 MHz.

Model PCM-1 Clamp-on Current Meter \$125 + tax + 6 S&H.

R-X NOISE BRIDGE

Learn truth about your antenna, & resonant frequency. Adjust it to your operating frequency quickly and easily.

Price \$79.95 + tax + \$6 S&H.

TUNER-TUNER

Tune your tuner without transmitting. Save that rig! Just listen to the Tuner-Tuner's noise with your receiver. Adjust your tuner for a null and presto! You have a 1:1 SWR.

Model PT-340 \$99.95 + tax + \$6 S&H

Please check our complete ads in QST, 73, CQ, and World Radio magazines.

Dennis N6KI 271-6079 Sandago.

(05-4)SP-520 spkr cabinet; PC-1 phone patch: Henry WB0YQC 722-5394 Ocsd (leave message).

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New RF Store

Larry Gogle (Sarg), AB6LY, has announced the forming of a new RF Repair Service in Oceanside. They are located at 3768 Mission Ave, Suite A, phone 439-9756 and a fax of 439-9492.

Larry reports eight employees and is looking for several more who have RF experience. The company also sells all sorts of 2-way equipment, fixed, and mobile as well as a full line of amateur gear (*we heard he was a Kenwood distributor -Ed*).

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Free Internet E-Mail

Nash Williams

W6HCD@juno.com

Free e-mail software is available from JUNO. It appears as though this free E-mail Service has a price in that you will have to put up with an ad or two scrolling across the top of the screen each time you check in but that is probably a small price for sending free E-mail messages.

My W6HCD@juno.com address will be activated by the end of the month. Contact me or Stan-W9FQN for more information on this free service.

It requires a 386 (+), 9600 baud modem (+), and any version of Windows plus 4MB of RAM and 10MB free on your hard drive (*for ads? -Ed*).

Those of you with other services could use Juno for E-mail and save your time for the internet which Juno does not provide at this time. Call 1-800-6544-JUNO for your free disk copy.

And from a user of Juno: Hi Stan! Thanks for the mail. So far, I like Juno. It's free, that's what I like the best. It doesn't offer anything but email. The "commercials" aren't bad: there's Welch's Grape Juice, Okidata printers, and Sportsline.... That's all I've seen so far. Juno has been quick, reliable, and easy to use. I'm not sure if they offer any additional services. I'm going to email them and find out. lya@juno.com (AC6XK-Lorraine Aubert, former KE6WHJ -Ed)

And another user: Hi Stan! Have rcvd no advertising on JUNO yet, although there is supposed to be alot! They ask U a big questionnaire at application time so as to profile U and that is how they channel the ads to u. Guess I didn't fit any of the classifications. The ads aren't obtrusive anyway and can be deleted or ignored; a small price to pay for absolutely free E-Mail! So far I'm

tickled with it and would highly recommend it to anyone not affluent enough to afford the big bucks for the regular ISP providers. That is why I am not surfing the Web: too pricey!

wa6mhz@juno.com (Pat Bunsold)

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This and That

PARC Identification(s)

Caps, \$5.00; **Old badges** (*circular ones*), \$1.00; and **New Badges** (*blue rectangles*), \$7.00 (*this will be mailed to your home*).

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Packet <—> E-mail

Rod Dinkins

AC6V@amsat.org

Ran across this on a news group, a local gateway to the internet.

<http://www.cts.com/browse/garym/races/gateway.html>

San Diego County RACES-K6JCC/BBS Internet Gateway Operating Instructions Table of Contents

Local Users

Remote Users

White Pages

Registering

Executing BBS Commands Remotely

Sending Mail to Packet

About the NØARY BBS Software LOCAL USERS.

Local users are those that log into the BBS via one of the BBS's telephone modem ports (619-565-3011, V.32/8N1) or via one of the packet radio ports (145.07 or 223.54, 1200 bps) or one of the local terminals (located in the San Diego County EOC). Each local user has a BBS account that is used to customize how the BBS interacts with the user.

Local users can set their account up so that all incoming mail addressed to their call will be forwarded via a gateway to the Internet and on to other networks (Prodigy, AOL, CompuServe, etc). All the user needs to do is enter his email address and turn the feature on.

For example:

EMAIL kk6yb@amsat.org

EMAIL ON

When the EMAIL feature is turned on any packet message you receive will

be deleted at the time of forwarding through the gateway to the Internet. So care should be taken that the address is correct prior to turning the feature on. To disable the auto forwarding feature simply type:

EMAIL OFF

Messages can be sent by packet users to the Internet users via the gateway. This applies to users at K6JCC as well as users at other BBS's. Begin by sending a packet message to IP-GATE@K6JCC with the first line of the message being the letters "To:" followed by the Internet address of the recipient.

KK6YB de K6JCC >

sp ipgate@k6jcc

Enter your subject: Meeting?

Enter your message body:

To: dave@hal9000.org

Are you planning to attend the meeting on Thursday?

Give me a call.

73, Gary

/ex

NOTE: The Internet recipient cannot respond to the message unless they are a ham and are registered to use the gateway. The section Registering explains how to send register as a remote BBS user.

REMOTE USERS

Remote users are those that do not log into K6JCC directly but merely appear from the packet world to use it as home. Remote users access the BBS by sending and receiving Internet email messages from any Internet account they would like to use (ie: Prodigy, AOL, Compuserve, Netcom, etc). The section Executing BBS Commands Remotely explains how to send BBS commands via email.

If a packet user checks the "White Pages" for a remote user the entry comes back as @K6JCC. The packet user then address his message to YOURCALL@K6JCC and the BBS will do the translation and forwarding to Internet.

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Goodie Bringers

PARC thanks all of its members who have brought goodies to our meet-

ings for the "goodie table."

Your contributions are greatly appreciated and contribute to a more pleasant atmosphere.

You are rewarded with one (1) extra activity point each time you bring in some goodies.

For 1995-6 we would like to recognize the following members for their "above and beyond the call of duty" in bringing in goodies: AA6EE(9), KM6PY(10), N6TCB(7), N6ISC(5), & K6YGK(8).

Twenty-two club members brought in goodies during the club year. Thanks.

A special thanks goes to Art and Anita Nye, KB6YHZ/Y, for their dedication in making the coffee and seeing that the goody table runs smoothly.

Your donations to the goodie table pay for the supplies used at meeting nights, Field Day, and the club picnic. Any surplus money is put into the club's equipment fund.

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Purdue Web Site

Purdue University, one of your editors alma maters, maintains a web site with a lot of information of value to the blind. Check out

<http://www.chem.purdue.edu/facilities/sightlab/index.html>

...and call it to the attention of those that might profit from this information.

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Tournament of Roses

Ellen Utscheg N6UWW@amsat.org

They're looking for APRS operators as they're experimenting with APRS on float convoys to reduce voice traffic.

A net is held the last Thursday of the month on 147.270 at 7:27pm It goes weekly after Thanksgiving & nightly after Christmas. TORRA can be found on internet torra@artnet.net and they have a website at "artnet.net/~torra".

Membership applications are available for printing on-line. Their calendar of events is as follows: Sat 9/14 1pm Orientation Mtg @ Tournament House; Sat 11/2 10am-4pm Radio Tune-in Tournament House; Wed 12/4 7pm Credentials meeting; Tue 12/10 7pm Credentials meeting; and Thu 12/12

6pm Tournament of Roses Reception (dressy attire).

For additional copies of the newsletter order form (for TORRA clothing & pins) and membership applications can be obtained from Jeannie Nordland (714)533-1895.

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Pager Problems

The following from the NORTH COUNTY TIMES might explain why some ARES/RACES pagers are getting some strange numbers ..and pages:

In short, the article stated, "...pager customers are being paged to unfamiliar numbers from the '809' area code. When they called back the number, the customer was given a sales pitch for various health-oriented products. What the customer didn't know, was that by simply calling back to the 809 number, they would be accessed a \$25 charge on their phone bill". This scam is a way around the 900 numbers, which most people recognize.

Another form of this same scam, customers are paged to an 800 number, when they return the page, they were forwarded to another number and the caller has no idea what has happened.

These type of pages are made with automated dialing equipment, which scans for beeper numbers and automatically leaves a number to return.

It's a scam that is presently plaguing pager customers throughout the country for the past three months.

Please share this information with your family, ham friends and your business contacts that this scam is active. Please be aware that any pager user is a potential victim.

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BAND USAGE

Roy Davis WB9RKN@amsat.org

Recently we've all read about the attack on our 2 meter and 70 centimeter bands by commercial interests. We get all uptight about this and start firing off letters to the FCC and our congressman, but let's try to see it from the other side. No, I'm not proposing that we give up our bands without a fight. I just want to look at the problem from their side so maybe we can learn something.

NiCad Lady N6WPA

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*General Coverage Receiver

450 KHz to 30 MHz.

*-10 dBm exciter output for all HF amateur bands. Simple no solder components available to raise power output to 50 or 100 Watts.

*High Dynamic Range Direct Conversion Architecture with full DSP.

*Two ISA bus card system, uses an Analog front-end Card and a DSP card for all passband filters and modulation / demodulation.

*FREE software upgrades.

Call our BBS on (619) 744-4032 for more information and FREE demo software.

Receiver/Exciter + DSP \$695+tax

COMER COMMUNICATIONS INC.,

609 Washington Drive,

San Marcos, CA. 92069.

Tel(619) 744-7266, Fax(619)744-4745

There is a set of remarks by Susan Ness of the FCC to the Wireless Communications Summit, a transcript of which was published in Issue #63 of the Packet Status Register (TAPR's newsletter), in which she stresses the efficient use of spectrum and the rapid re-allocation of spectrum to meet the evolving needs of the public. I think the handwriting is on the wall. Not only do we need to use it or loose it, we need to use it efficiently or loose it.

How does that effect us in our day-to-day amateur operations? Well some, who are experimenters will charge off to develop new technologies, like spread spectrum, to cram more communications into our crowded bands. Others, who are more concerned with operations can do our part too. It doesn't have to be the latest in technology to solve a spectrum sharing problem.

A for-instance is the use of tone coded squelch on our repeaters. There are those who against the use of any sort of tones to protect our repeaters thinking that it is the equivalent of a closed repeater. With almost all amateur FM radios made in the last decade being capable of at least transmitting the proper subaudible tones, this is certainly no protection from outsiders in a closed system.

The downside of not protecting our repeaters with tones is that we need clear channels to keep the interference to a minimum. If all repeaters had tone squelch protection, we could introduce many more repeaters for better coverage into the same channels.

Why should we in San Diego not be able to use a frequency pair because there is a repeater on it up in Los Angeles? If both repeaters had tone squelch, there would be little or no interference problems. The public service radio systems have lived this way for decades.

Why do we as amateurs think we are so special that we can't use even this primitive technology? By adding a tone to the output of the repeater, each of us then has the option to turn on the tone decoder in our radio and reject the co-channel interference.

We also have the unique advantage here in San Diego of having some tall mountains on the northern border of our intended coverage area. By installing antennas in locations and/or with radiation patterns that favor the south, we can cover the county quite well while rejecting signals from the north.

Other practices, like remote receiver sites (with tone squelch protection, of course) and linked low level systems can give us the wide coverage we want, while affording us more channels. All

of this will improve our ability to support emergency communications, which is our reason for having these bands in the first place.

So instead of trying to stave off improvements in our radio systems, we should be leading the way to new technologies and operating practices that lead to fitting more amateur communications into our bands.

If we continue to insist on operating a few high level repeaters with nothing but distance to separate them, we are going to loose the privilege to do so. Just look at what happened to the 220 band.

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New Members

KC6WAN@amsat.org Ralph Powell

The usual mid-summer activity in membership matters is still with us. Listed immediately below are new members from 7/23/96 to 9/20/96 -- and Renewals during the same period.

NEW MEMBERS --

THREE YEARS:

K6LYL, Phil; KF6EWV, Edwin; W6ODB, Hilliard.

TWO YEARS:

WA6WHA, David; NM7V, Tim

ONE YEAR:

WB2TPD, Jim; WB6WDA, Gerald; KD6XL, Ken; WA6WHA, David; KD6FMU, Harry; KD6KGO, Arlen; KF6DGK, Grenville; KF6NEV, Doug; KF6FDI; WB6RBJ; KC7LNW; WB6IZG; KD6DLR, Jonathan; N0XWB, Daniel; KE6RTS, Cheryl; KD6NZQ, James; N6CSO, Francis; KF6AVT, James; KA2BLQ, James; AC6XK, Lorraine; KF6FMW, Rob; W6ODB, Hilliard; Assoc, Michael Fisher.

RENEWALS:

FOUR YEARS:

KE6VX, Robert;

THREE YEARS:

KD6MSQ, Stanley; KI6GD, Glenn; KB6AQS, George; K6GVM, Lyell;

TWO YEARS:

WA5BNH, Leon; KO6BT Duane; KC6QHT, Jean; KQ6AA, Peter; N6VDZ, Larry; KK6DD, Forrest; KE6GYB, Steve; KC6TYT, Phillip;



KD6MKC, Jeff; W6GIC, Sybil; WB6OKO, Norman; KE6LGZ, Donald; KD6FKN, Matthew; KD6BCU, Parviz; N6PRC, Henry; KD8CA, Pat; WA6DYV, John; KE6DFD, V.L.; W6RGR, Charlie; WA3HHC, Alan; KA5Q, Ken; KD6IVF, Cook.

*** * * And sixty-one More-- Thank You!**

Again, I invite you to have a good look at your label. Do I have your dues expiring at the appropriate time? And is your street address correct. Oh, yes, you can get your Scope regularly even when the street address is messed up.

In one case I typed only the street number and left off the name of the street -- and our member received his newsletter regularly. He & I haven't figured that one out yet. (I wonder if the cops know where he lives??)

Our membership has finally gone above 800--however we have potential losses of about 35 per month over the next 3 months so it's not likely to rise much in the short term.

Bar Coding is still in the works. But we're not going to start until we have a good data base and know exactly how current processes have to change ..check yours... KC6WAN 727-7415.

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W9STN

(New->Old)

The former K6YGK, George Uminski, of the famous 147.130 evening King Henry's Facetious Net has obtained his old call of W9STN from his days in Wauwatosa, Wisconsin.

Your editor, W9FQN, has already rushed to the 2m transceiver several times to answer calls made to W9STN!

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YL Net

Carol

KF6EFN@pacbell.net

All YLs interested in getting together for a chat should contact Carol-KF6EFN or Lori-KE6GFK for more information.

They have suggested using the 147.13 repeater on Sunday afternoon at 2:30pm. Net time and day are still under discussion so contact them about your wishes.

Technical and Operational Things: Repeaters, Autopatches, News, etc.

Tower Guy Lines *(history)*

The PARC free standing tower was originally designed to have an overturn moment with 100% safety while supporting three antennas. Over the years the number of antennas has increased to over 30 which has increased the wind loading considerably. The tower base contains 18 tons of cement.

After the first group of added antennas, we added three guy lines to maintain our 100% safety limit. Again more antennas were added and again another set of guys. Then last year extensive calculations were done on all antennas, supports, and crossarms using a program written in Radio Shack (RS) basic by Stan-W9FQN.

The program has inputs of:

- 1) effective area of antennas
- 2) effective area of crossarms
- 3) effective area of tower sections
- 4) center of efforts of each area
- 5) height above ground level
- 6) weight of base (18 tons)
- 7) ground lifted by base (30 degree)
- 8) velocity of the wind in mph
- 9) guyline information & anchors

It takes the RS program about 60 seconds (4Mhz) to do all calculations and print out the results with outputs of:

- 1) resistive guy torque (total)
- 2) resistive 18T and ground torque
- 3) torque of wind by areas (sums)
- 4) net overturn torque of above items
- 5) thrusting force on each leg

The county regulations require that we design for winds of 90mph in our Southern California area which we think is low.

Here are the calculated results for the following items at various wind velocities.

MPH (wind force) (safety torque)

| | | |
|---------|----------|----------------|
| 100 mph | 7.5K lbs | 173,941 ft-lbs |
| 105 mph | 8.3K lbs | 154,910 ft-lbs |
| 110 mph | 9K lbs | 134,951 ft-lbs |
| 120 mph | 11K lbs | 92,348 ft-lbs |

These calculations were current as of 1995 and no new tower modifica-

tions have been added since that time.

(Gee, there is room for another antenna!!! -Ed)

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Work Parties

Stan Rohrer W9FQN@amsat.org

Next work party will be Sunday, **October 6th**. Bring 5gal of water for the little trees, lunch, drinking water, and sun cream.

Scheduled: irrigation, painting, heliax checking to and on the tower, site cleanup of branches, trailer storage organized, alarm system additions, fire protection, etc.

(9-5) Mike-AB6QT installed the new "drop-in" 146.730(-) repeater unit. The repeater case remains the same but it is now possible to remove the receiver/transmitter combination and replaced them with working units within minutes of arriving at the site. Sort of a *Plug and Play* system.

(Mike has done outstanding work on this drop-in repeater & future repeaters will constructed in the same way -Ed)

(9-8) Another great day on the mountain!

Royland Gaebert-KE6NPN was on the tower locating unused heliax and coax lines for checking next month. He was "supervised" from the base of the tower by a future ham, **Janet Falconer**.

David Doan-KC6YSO and his son, **Tony-KC6YSP**, helped as needed with David lowering and replacing the guy lines that had to be temporarily removed for the 220 club tower lowering.

John Kunvinen-WB6IQS and **Bob Wickord-KA6NZL** were busy in the repeater buildings running tests and making adjustments. They checked out the new 40 amp. regulated battery charger (still needs work), helped with the earthquake detector connections, and worked on a Time Domain Reflectometer (TDR) for checking out our

Radio and Test Equipment Repair

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ND6W

(619) 437-8351

"dead" heliax runs.

Working on the irrigation of the little trees were: **Tony Arellano-KB6KDG**, **Daniel Treto-KD6DKM**, future ham **Manuel Arrllano**, and **Glenn Paden-KE6ZLY** who was supervised by his wife **Gloria**.

David Drake-AC6OA worked on the earthquake detector electronics and was assisted by **Duane Naugle-KO6BT**.

Stan Rohrer-W9FQN distributed the work load and spent most of his time with the 220 Club of San Diego and their project of lowering their tower pole.

The 220 Club members participating were: **K1CT-Bill**, **KO6BT-Duane**, **W6WYN-Al**, **N6CEO-Don**, **W6HME-Jim**, **N6JZE-Del**, **W6OYJ-Ed**, & **K6PD-Steve** (president).

All new workers (including 220) were given a tour of the site by **W9FQN**.

(9-8) Mike-AB6QT visited the site at 7pm to make adjustments in the new 146.730(-) repeater "drop-in" replacement. Limiting was set at 4.2khz.

(9-20) Bob-KA6NZL and **Stan-W9FQN** checked out the new 147.13 repeater on Bob's workbench for proper operation on all control codes. It passed all tests.

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Highway Electronics

305 Wisconsin Ave, Oceanside CA

Call Nick at 967-7225 for confirmation of times open (10am-3pm).

Surplus Items: transformers, meters, sheds, tubes, resistors, racks, cabinets, variable inductors and capacitors, etc.

220 Club of SD

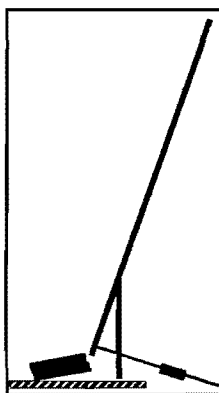
At PARC's Sep. 8th workparty, eight members of the 220 Club of San Diego visited our club's repeater site to lower their antenna tower and to adjust their antenna heading from 180 degrees to 208 degrees (28 degree change).

Their antenna main lobe is now out over Poway and the center of San Diego City.

PARC had placed the 2nd repeater building directly in the lowering path of their tower so a safer method of lowering the tower had to be worked out.

As the tower is now lowered (hinged over at the 5' level), the tower base swings upward picking up one end of a 800 pound cement block. Since one end of the block is always on the ground, the actual lift is 400 pounds.

A come-along pulley is used to control the tower movement up and down.



New 147.130

The new 147.130 repeater is almost finished. Bob-KA6NZL has finished the basic repeater modifications except for putting the final touches on the receiver tuning, adding the autopatch interface wiring, and installing the 12VDC automatic switch over for when we loose 110VAC power.

Bob and Stan-W9FQN tested out the control circuits and everything worked as advertised.

After a "burn-in" test period in October, we hope to have this new repeater at the site by the end of October or the first of November. The old repeater will be checked out and readied as an emergency repeater.

Letters

James McCormick bj359@freenet.uchsc.edu

BTW, if anyone is trying for the VUCC award, I regularly engage in Maritime Marine operations with my HT. I work N6OLE, KC6VVT and

others almost daily. I've been trying to contact the repeater as far out as possible and have my lat/long recorded for PARC's records.

I will state categorically that the advertised working distance with 25 watts of 100 miles into the Pacific is wrong! I've worked stations rather well on a rocky boat over 60 nautical miles (69 regular miles -Ed) south of Pt. Loma!! (Pt. Loma is 40+ miles from the repeater site -Ed) This is with a HT, using a rubber ducky, and operating with approximately 3 watts output (less than 4 anyway).

I hope to continue this 'experiment' with my new Hot Rod antenna (boy do I miss my HT!!) soon.

(Can you do this with all three PARC 2m repeaters? -Ed)

+ + + + +

APRS (help!)

If anyone has an APRS unit in their car, your editor would appreciate the Lat/Long of various landmarks:

Intersection of major roads (freeway)

(ie 78/I-15, 78/I-5, I-15/52, etc.)

Center of city "down towns"

Encinitas power plant chimney

Del Mar Race Track

Airports, & well known landmarks

Well known businesses (ie HRO)

This information will be used to produce a map for direction finding when we are looking for jamming signals. The information can also be used on our Earthquake map.

+ + + + +

Repeater Pairs

PARC members need to be reminded from time to time that our repeaters on Palomar Mountain are located in a SW gully on Palomar Mt.

Our location is great from the standpoint that our signals are confined to a 90 degree arc which serves all of SDCo and only SDCo.

The disadvantage of our location is that our signals are not heard in the Los Angeles area. Amateurs in the LA area looking for repeater frequencies listen and find little or no activity on .73, .075, .13 and our 449.425 repeater frequencies so they decide to throw up

something on those frequencies at high altitudes forgetting that their locations not only will serve their areas but will probably put very strong signals into SDCo.

Their comments are always, "...but we did not hear anything on the frequency."

PARC members should keep on the lookout for other repeaters showing up on our coordinated frequency pairs. The sooner PARC is aware of these repeaters, the greater is the chance that we can remove them as a source of interference to SDCo.

A case in point is the recent intrusion of a very strong 146.730 repeater in the LA area with an input PL of 84.5hz and a output PL of 107.2hz. It is almost like they were trying to get into SDCo since all of PARC's repeaters carry 107.2hz PLs on their outputs and our members run 107.2hz decode.

LA has had a history of looking at SDCo as not existing ..or of little importance.

(tnx to Eric-KO6IQ for locating this repeater and suggesting this article -Ed)

+ + + + +

Video Cameras

Many thanks to Don Waters and to Fred-KE6BGI for their donation of video cameras for the club's surveillance project(s) at the repeater site. We are checking them out for possible use at the repeater site.

+ + + + +

September Picnic

Mike Doyle AB6QT@amsat.org

Winning prizes were: Pat-KF6DJP (\$100); Duane-KO6BT (\$50); Orlando-N6QVW (\$50); David-KD6EBY (\$25); Anita-KB6YHY (\$25); Dennis-N6KI (\$25); Stan-W9FQN (\$25); Rod-KM6SN (Scanner book); Bernice-N6WQR (N.A. Rptr Atlas); Marvin-WB6PKK (ARRL data bk); George-W9STN (96 Handbk); Erik-N4BBF (Impedance Handbk); Jo-KB6NMK (Call Bk); Charles-KF6CRK (Handbk '93); KF6CBX (Betty Bearcat); Art-KB6YHZ (Satellite Expt Handbk); Bob-KA6NZL (UHF Expt Handbk); KE6CLY (Monitor America); Dennis-KE6MQB (UHF Microwave Projects); Hal-KB6RY (Bearcat); & Iona-KE6BUE (WX Sat.

HAM RADIO OUTLET

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TEN-TEC
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cushcraft
AEA
Tri-Ex
and
others too
numerous to
mention!

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location determining
equipment (APRS).

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Directions: On I63, take **Clairemont Mesa Blvd.** off ramp to East.
Stay in right-hand lane. Turn right at stop light. As you are turning
right you can see our beams in the shopping center. Travel 100 yds.
on Kearny Villa Rd. and U-turn back to shopping area and **HRO**
sign. Be sure to see our equipment in action on **real** antennas.

Handbook).

Attendance was 71 members, 6
guests, for a total of 77. We know this
was low since we saw *many* youngsters
playing and several adults did not sign-
in.

Thanks to the following for making
the picnic a success:

Mike-AB6QT (Committee Head);
Art and Anita Nye-KB6NHV/Z for
the coffee; **Barbara-KA6FPS** for the
preparation of the ham (eating kind);
Ted-KD6AKT for the popular packet
demonstrations; **Ken-N6ALA** and **Art-
KC6UQH** for their ATV display on
1.4GHz; **Bob-KA6NZL** for 70cm
checks; **Mike-AB6QT** for 2m checking
and Palomar Mountain drinking water;
Jo-KB6NMK for the DFing instruc-
tion; **Stan-W9FQN** for conducting the
Emergency Communications Forum,
participation tickets, and hiding the
"hidden" transmitter; **Jeff-KC6PVN**
for getting the volleyball game going;
& to all those others who helped in their
own way to make the picnic a success.

+ + + + +

SK KI6JM SK

"HELLO STAN: I WAS SO TERRI-
BLY SORRY TO HEAR OF JACKS
PASSING. HE WAS A GUY ALL OF
US WILL MISS. NEVER WILL I
EVER FORGET THE WRY HUMOR
HE DISPLAYED WHEN YOU
WOULD CALL ON HIM FOR SOME
KIND OF A REPORT.

HE'D HAVE THE WHOLE
ROOM LAUGHING IN JUST A FEW
SECONDS. I ENJOYED THE GET
TOGETHERS AT HIS QTH FOR
THE STAPLING AND MUTILAT-
ING SOCEITY. HE ALWAYS HAD
A GOOD STORY AT THOSE TIMES.

I SENT HIM A NUMBER OF
CARDS AND I KNEW THE NEWS
WAS BAD WHEN I NEVER HAD A
REPLY. I ONLY MET HIS XYL
ONCE BUT IF THE OCCASION OC-
CURS PLEASE INCLUDE MY
NAME AS ONE OF THE BUNCH
THAT MET AT THEIR HOUSE.

VERY SAD NEWS STAN, AND I
THANK YOU SO MUCH FOR IN-
CLUDING ME WITH THE SK NO-
TICE. ..." 73 DICK KC6QBD (Arizona)

"Ola Señor. Thanks for the news on
Jack's passing. That must've been really
hard for you as I know that over the
years (how many SCOPES were
folded, spindled & mutilated at Jack's
house?) you had developed a good
friendship with him. He was such a neat
man.

I'm glad I sent him a card when he
was first taken ill...just wish I'd contin-
ued to send cards as often as I thought
about him so he'd have known.

I'll never forget when Jack was try-
ing to figure out packet. I saw his call
so I connected to him. I hadn't much to
talk about that night and I was pooped
so I just told him it was great to see him
on packet, that I hated to make it so

quick but I was gonna hit the sack.

He said he also was going to bed
soon (he'd been waiting patiently for a
long while for the frequency to be clear
before he would transmit!!!) Evidently
his wife came in & asked him how it
was going. He told her it was going
great ...he'd just connected to me & we
were talking about going to bed!

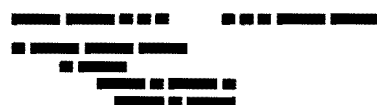
He got a good chuckle over that
story for a long time. I have to tell you
I cried some big tears when I read your
post & I feel that lump coming up in
my throat again tonight as I sit here typ-
ing to you.

You know that's really the only
problem w/ this hobby of ours...all
these really neat old men die! I think
I'm still grieving over my dad but
hopefully Daddy's showing Jack how
APRS works in heaven or something
like that.

...I always enjoyed (Jack's wife's)
hospitality - talking about their rose
garden, etc. I sure hope Jack and his
family knew how we all valued him in
our lives.

Who'll wear a red plaid flannel shirt
to our Christmas meeting & so well-
resemble Santa? Ok, I can't see thru
my tears anymore. Have a good week-
end. 88 Ellen"

+ + + + +



PARC NETS (16/37)

All 146.730 8:00pm Traffic Net (SDCTN)

All 147.075 10-11pm MCW contacts

All 147.130 10+ pm King Henry's Net

(open to all facetious amateurs)

Sun.146.730 8:30am AREmergency Service

Sun.146.730 10:00am Sailor's Net

Sun.147.075 8:45pm MARA Net

Sun.146.730 9:00pm This Wk in SDCo.

Mo.147.130 6:45pm EVAC (2nd 4th)

M-F147.075 7:00pm Morse Code Net

Mo.146.730 7:15pm RACES sub Net

Mo.146.730 9:00pm Microwave Net

Tue.146.730 9:00pm Voice Packet Net

We. 146.730 9:00pm Spanish (2nd/4th)

Thu.146.730 7:00pm Young People's Net

Thu.146.730 9:00pm Ham Help Net

(electronics, computers, antennas, license theory, etc.)

Fri. 146.730 9:00pm Hiker's Net

Inside:

K16JM SK, VE,
CA QSO, Sale, RF
Store, E-Mail, Web,
Roses, W9STN, YL
Net, Twr Guys,

Work Party, 220
Club, Repeaters,
Sept. Picnic, and
K16JM SK.

Membership Application Dues \$12

Amateur (circle)

Call Family \$21

Membership: New / Renewing (circle)

First

Name

Last

Name

Street

Address

City**State+Zip****Home**

Phone

Date Ham**License Expires****License Class** N T T+ G A E (circle)**Family Membership** (name + call)**Sponsor's Call**

(not required)

E-mail Adr: (10-96)

(if checked) LOOK AT ATTACHED AUTO-PATCH SHEET. NOT CALLING PROPERLY!

July SCOPE helpers: Ralph-KC6WAN and wife Virginia, Harry-WA6YOO, Jo-KB6NMK, Art & Anita-KB6YHZ/YHY, and Stan-W9FQN. Started at 12pm and ended at 2pm. ..and were those low fat cookies good! Terri-N6UZH was a Sept and Aug helper.

Mail the application (or copy) with your check to PARC, P.O.Box 73, Vista, CA 92085-0073 or give to our membership chairman at meetings. We prefer checks: you have a record.

Dues are \$12/yr. including \$3 for SCOPE (\$4 outside SDCo), or \$21/yr for a family all living at the same address. Consider paying for 2-3yrs at a time to reduce the work for the membership chairman.

Name, call, and complete address are required. Telephone number is required but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet, send a Self-Addressed-Stamped-Envelop (SASE) with your phone number on the inside flap with your application or the receipt of the next newsletter mailed the last week of each month will be your only notification of membership..

**Meetings 1st Wednesday
of each month at 7:30pm.**

OPEN REPEATERS / CLOSED**AUTOPATCHES, PALOMAR****Mt. REPEATERS (W6NWG)**

PARC Trustee of W6NWG: AB6QT

52.680-** W6NWG, -0.5 MHz**Autopatches(4): 146.730-, *147.075+**147.130+, *449.425-****PKT: 145.050s** (PALMAR-1) Open

(linked to PARC 9600 METROLINK)

146.700-(Duplex Pkt) PALBBS/EMG use**145.050/146.7-** (W6NWG/PALBBS)**ATV:915** wbfm, **919AM, 2441.25** wbfmIntercom: **144.390** PL 79.7 nbfm**OUT: 1241.25** MHz AM**OTHER: *224.38- & *224.94-** KK6KD***224.90-** WD6HFD (220Club)**448.00-** WB6FMT (123.0PL)***146.175+** WA6IPD, Falbrk*** = PL of 107.2 Hz**<http://www.electriciti.com/parc>**SCOPE, US Postoffice #076530**

Published monthly by PARC Inc.

Membership \$12/yr. including \$3 for

SCOPE inside SDCo.(outside \$4).

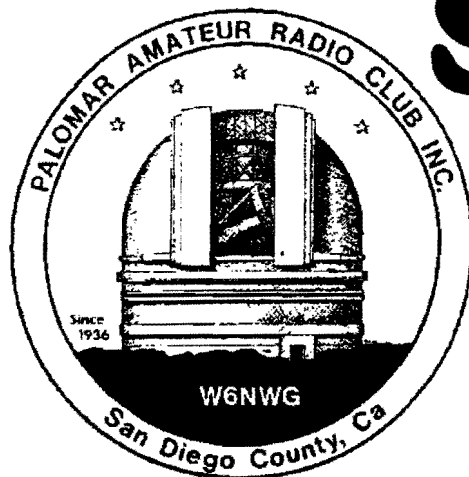
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Scope

Palomar Amateur Radio Club Inc.
Box 73, Vista, CA 92085-0073

Nov. *** 1996 ***** 60 Years Old**
Dues \$12, Volume XXII, Number 11
Coffee 7pm, Mtg. 7:30pm @ Carlsbad Safety
Center, Palomar Airport Rd. to N. on Camino
Real (S11), east on Faraday .25mi, left to CSC.
+++++ **Talk-in 146.730** +++++
4-Patches 147.075+, 147.130+, 449.425-
Pkt, ATV, 220, PALBBS & w6nwg@amsat.org

NEWS WORTHY (see page)

2-HR RndUp; Tnx; Nominations;
Treasurer; Editor
3-Policy; President's wave length
4-Board Meeting; Vanity Calls
5-For Sale, PARC ID's
6-W6INI; 6m; Rptr Policy; QSL; Auction
7-ARES EC's; ARES Support
8-PO statement; SDCTN; JOTA;
Mex; YL; Fire; Words; Pkt
9-Patch; 146.73; Reset; Work Party
10-Packet Net; PublicServ; BREAK
11-EMF; Range; New 147.130 Rpt

November Meeting

W6GIC@amsat.org

Sybil Allbright

The program for the **Second Wednesday in November** will be on Simple Microwave Projects by Ray Clancey-N6RE.

Club meetings start at 7:30pm but many come at 7pm to talk to friends, sample goodies & coffee, join in a seminar, get a good seat, or be first to see small items of equipment being brought in for the club's sale table where the club takes 10% of the selling price.

Check 146.730(-) for where some members are eating dinner before the meeting.

Show and Tell: please see me before the meeting to reserve a spot for your Show and Tell items.

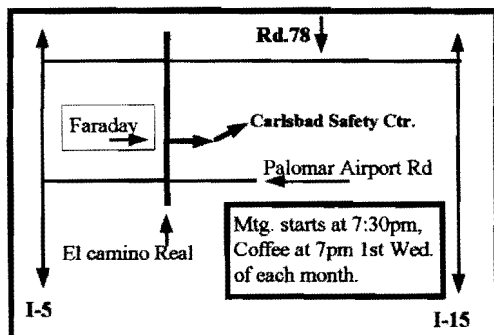
Please come early and help set up tables and chairs ...and **STAY** a few minutes to help put them away. Your help is greatly appreciated!

Upcoming PARC meetings:

Send program suggestions to me at the club's POBox or my E-mail.

(Dec 4th) Christmas Equipment Mtg, and voting for club officers.

(Jan 1st) Earl Leeder-KE6UFO hypnotist. *(great callsign. he can help you with the code! -Ed)*



Last Club Meeting

We were treated to the club's annual auction. (see Auction)

In attendance were 9 guests and 65 members for a total of 74. You receive one (1) participation point for signing in at each meeting and some of you are forgetting to do so!

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WB6GXR Camper

Mac McBride-WB6GXR donated a great truck camper to PARC for use in Emergencies, Emergency drills and Field Day.

The camper is very clean and it has an icebox, gas stove, sink, washing area, sleeping area, and a nice table arrangement.

We will probably need to do some inside work to make it more Amateur Radio friendly but the basics are all there for a VHF/UHF command post that can be quickly hauled to a location, planted, and picked up after the emergency is over.

We will need to add antennas and power distribution boxes along with enough batteries to keep it going until a generator is brought in for power.

The club owns a solar array which could be used to keep the batteries charged.

A donation plaque will be attached with the call letters of WB6GXR and we might end up designating it Mac's Shack!

THANKS MAC!

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Nov. '96 SCOPE

02 Santee Swap Meet (drive in theater)
09 PARC VE Testing CarlsbadSaf.Ctr, 10am
10 Nov. Ham Radio Roundup (MissilePark)
NOTICE DATE BELOW
13 Club Mtg. Carlsbad Safety Ctr, 7:30pm
17 Rptr Site Work Party 10:30am P.Mt.
21 PARC BoardMtg. WB6PKK QTH, 7pm
23 Hiker's Outing (destination unknown)
04 Dec Club Mtg 1st Wednesday!

November Meeting

The November club meeting will be held the **2nd Wednesday, November 13th** (not the 1st Wed.) because of a conflict in scheduling at the Carlsbad Safety Ctr. (7:30 pm)

KI6JM Donation

Jack Hanthorn-KI6JM, before he passed away last month, donated his entire station to PARC.

It has been recommended to the Board that the equipment not be sold but should be put to use in the club's emergency trailers since Jack was very interested in emergency communications. A listing of the equipment will be made in the December SCOPE.

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Field Day - 2nd in 5A! and 8th USA all classes

PARC again mounted a near winning effort in the 5A ARRL Emergency Field Day Exercise held each June plac-



ing 2nd in the 5A classification. More information next month.

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Ham Radio Roundup

Tuck Miller kc6zec@juno.com
(San Diego Asst. Section Manager)

Please remember our 5th annual Ham Radio Roundup coming up on **Nov 10, 1996** from 1000 to 1500 hrs for walk throughs. Exhibitors can set up at 0730 hrs. I have had several clubs and organizations tell me they would be there, so we are looking once again for a great crowd. If you would be interested in helping out in the PARC booth, please contact Frank, **KE6WOE**, who is coordinating the PARC activities

If you are not a member of the **Amateur Radio Emergency Service**, I urge you to fill out a registration form, FSD-98, and give it to one of your ARES representatives.

A new project coming up through ARES is **ARESMAT**, which is the Amateur Radio Emergency Service Mutual Assistance Team, which will be helping out other sections in times of emergencies. Stay tuned for further details.

The **Southwestern Division convention** in Mesa, Az was a huge success, and we had a contingent of at least 25 hams from the San Diego area in attendance.

Congratulations go to Jack Dobbs, **WB6AXW** for winning the **grand prize**, an Alinco DX70, an HF rig. Next years convention will be in Riverside Convention in September.

Remember, helping others. always worthwhile. Until next month, 73, Tuck

(Missile Park is on Claremont Mesa Blvd between 805 and 163. About 0.5 miles east of HRO -Ed)

+ + + + +

Many Thanks To:

Goodie/Coffee Table: On the coffee table were Art-**KB6YHZ**, and Anita Nye-**KB6YHY**.

Those bringing in goodies: Duane-**AA6EE**; Bill-**KM6PY**; Jerry-**N6TCB**, and George-**W9STN**.

And a big thanks to all those who

helped set up tables and take them down. Your help was greatly appreciated.

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Nominations #1

The nomination committee will present their slate of officers to the November general meeting. Nominations will be accepted from the floor but you need to have the prior approval of the person you nominate.

Elections will take place at the December meeting and the new Board will take over immediately after the December meeting and before the December Board meeting 8 days later.

Committee heads and other appointees remain in office until replaced.

Candidates will be given space in the December SCOPE to state their qualifications.

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Nominations #2

Allen Maslowski, N2DCA, Chairman

The nomination committee, this year as in the past, has had the honor of interviewing the present board members, and potential candidates nominated by the committee. The following nominations are a result of hours of discussions and interviews with these people, and we feel will be in the best interest of the club and all its members.

The nominations are:

President: Art McBride, **KC6UQH**

Vice Pres: Sybil Allbright, **W6GIC**

Secretary: David Doan, **KC6YSO**

Treasurer: Jo Ashley, **KB6NMK**

Director: Mike Doyle, **AB6QT**

Director: Marv Munster, **WB6PKK**

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Long AGOGO (history)

K6HAV / K16JM / W9FQN

(11-95) ...\$1,200 exchanged hands at Oct Auction ..PARC earned \$366 + \$160 ..PARC audit report ..PO ownership statement ..Nets information ..tower climbers listed ..Juan-**KE6KNN** 60' heavy duty tower donation ..Norbert-**KJ6ZD** PALBBS Net information diagram ...

(11-91) ...Dennis-**N6KI**'s PARC Field Day group #1 in 5A FD competition ..101 at Oct auction ..nomination

committee selections ..146.73 patch tested ..internal bracing to battery shed ..four emergency 9913 cables pulled up tower ..3 autopatch centers announced ..**WB6IQS** report on trip to Russia ..

(see your editor for copies of newsletters)

+ + + + +

Treasurer \$\$,\$\$\$,\$\$

Jo Ashley, **KB6NMK@amsat.org** 09/30/96

Checking \$ 9,241.80

Certificate of Deposit \$ 2,384.48

Certificate of Deposit \$ 2,031.67

Certificate of Deposit \$ 2,023.47

Cash & Bank AccountsTot.\$15,681.42

Future Year(s) Obligations \$ 8,453.00

Past totals: Aug. \$15,764; July \$15,407; May. \$13,708; Apr. \$13,466; and Jan. \$13,388.

Club members are invited to look at the treasurer's detailed reports at Board meetings or at club meetings.

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Future Expenses \$\$\$\$

Upcoming expenses: Equipment Insurance ~\$400, Liability Insurance ~\$1,300, Taxes ~\$150, Scope printing ~\$300/mo, Scope postage ~\$70/mo, electricity ~\$130/mo, phone(s) ~\$50/mo, trailer jacks \$250, climbing belt \$100, etc.

Under consideration: 2m duplexer(s) ~\$1,000ea, 6m repeater spare ~\$200, 449.425 repeater spare ~\$200, spare antennas \$600, trailer and camper mods ~\$300, portable small metal building mods and repair ~\$100, small metal building at site mods ~\$100, AC lightning filters ~\$450, etc.

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Editor

Stan Rohrer W9FQN@amsat.org

The October SCOPE came to most members late probably because of the large amount of mail that the post office handled due to the CA Voting Pamphlet.

SCOPES are always in the Vista PO on Tuesday of the week before the meeting allowing us at least eight days before the meeting which is almost always sufficient time for delivery.

+ + + + +

Address Change(s)

If you are changing your address, be sure to contact PARC about your new



address ASAP. The Post Office will not forward your SCOPE and it costs us \$0.50 to get your SCOPE back with the proper address. We **do not** mail you a replacement SCOPE!

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Palomar Amateur Radio Club Policy for Club Sponsored Nets (Adopted 10-10-96)

It is the Policy of the Palomar Amateur Radio Club to sponsor scheduled nets on our repeaters on a wide variety of topics of interest to our members and amateurs in the San Diego area.

Nets shall be approved by the Board prior to beginning operation and may approve special conditions for each net. Approval shall include the topic, day and time, duration, and the repeater to be used.

Each net shall have a Net Manager, approved by the Board. The Net Manager shall be a member in good standing of the Palomar Amateur Radio Club.

The Net Manager shall select Net Control Operators for the Net. Each Net Control Operator shall be a member in good standing of the Palomar Amateur Radio Club. Participants in the nets need not be PARC members.

There shall be a standard Preamble to be read at the beginning of each net and a standard Postamble to be read at the end. The details of the business of the Net shall be left to the discretion of the Net Manager but will be reviewed from time to time by the General Nets Manager.

The Board may terminate the approval to operate any scheduled Net by motion at any Board Meeting.

A board approved preamble and postamble is attached.

End of Adopted Policy

Nets to which this policy currently

applies (10-01-97:

Sailors, Newsline, Traffic, Microwave, Voice Packet, Spanish, Young Peoples, Ham Help, Hikers, Code Practice, ARES, MARA, YL Net and EVAC.

The ARES 6m Net is sponsored by PARC but exists under special permission by the PARC Board.

The Facetious Net is not really a net but exists with the special permission of the PARC Board.

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President's Wave Length

Art McBride, KC6UQH@amsat.org

I received word from Tuck, **KE6ZEC**, that we placed second in Field Day running 5A this year. Congratulations to Frank, **KE6WOE**, and John, **WB6IQS**, for a well run, successful **Field Day** and all of the Members that helped them. If 20 Meters stays open all night next year, we will have a good chance to take First Place. Being on the West Coast we do not have an even playing field when we are in the bottom of the Sun Spot Cycle.

The recommendations of the **nominating Committee** will be announced elsewhere in this issue. (Policy decision by PARC Board October 1996) The Committee Members are Nash, **W6HCD**, Jay, **KD6PBH**, and Allen, **N2DCA**. At the November General Meeting Nominations will be opened to the General Membership. Nominations from the floor (General Membership) require a second and the person being nominated must be willing to serve for the position.

The **Elective Offices** include President, Vice President, Treasurer, Secretary, and Two Directors. The positions of Membership Chairman, Scope Editor, And Repeater Technical Chairman are appointed by the President elect.

P A R C BOARD

The board meets at 7pm on the Thursday of the week following the club meeting.

Pres: Art McBride, **KC6UQH**, 747.0253

VPres: Sybil Allbright, **W6GIC**, 278.4284

Sec: David Doan, **KC6YSO**, 286.4888

Treas: Jo Ashley, **KB6NMK**, 741-2560

RptT: John Kuivinen, **WB6IQS** 727.3876

SCOPE: Stan Rohrer, **W9FQN**, 749.0276

MSh: Ralph Powel, **KC6WAN**, 727.7415

Mem: Mike Doyle, **AB6QT**, 742.1573

Mem: Marv Munster, **WB6PKK**, 747-2223

VE Program: Rusty, **AA6OM**, 747.5872
(2nd Sat.ea.mo. Carlsbad Safety Center)

ATV/Edu: Bill, **KB6MCU**, 582.2313

Editor: Stan Rohrer, **W9FQN**, 749.0276

30311 Cir R Ln, Valley Ctr CA 92082

W9FQN@amsat.org

or **KA6FPS@sdcoe.k12.ca.us**

PALBBS: Norbert, **KJ6ZD**, 630.5538

145.050 PktSimplex, 146.700-PktDuplex

WORLD WIDE WEB: Frank, **KE6WOE**

http://www.electricti.com/parc

GPS Display Kit

- displays lat-long, time, number of satellites
 - 2x16 LCD module with LED backlight
 - connects to GPS receiver serial output
 - recognizes NMEA 2.0 GPGLA lines
 - computes and displays 6-digit grid square
 - low current draw (13mA without backlight)
 - complete kit with PC board for \$45
 - use as output for Trimble "mushroom" or as a remote display for handheld GPS unit.
- For more information, or to reserve your kit, contact J. Goldberg, KD6PBH, via internet: **j@harper.com**; voice: 619.990.9046

Nominations will be closed at the November General Meeting. All nominees will stand for election by the General Membership present at the December General Meeting.

The new Board of Directors is installed after the election at the close of the December General Meeting and will assume their duties of the operation of PARC Inc. for the Year of 1997.

Last weekend I had an enjoyable QSO with several **Boy Scouts** on a over night camp out via Fred, **KF6CFO**, as third party traffic. I encouraged them to work on the Merit Badge in Amateur Radio in hopes of helping to provide for the future of Amateur Radio. Thank-You Fred for a wonderful opportunity.

Richard, **W6GHD**, donated several items to PARC. They include a Hewlett Packard 5245L Counter with 5253 and 5254B plug in modules, a 3590A Wave Analyzer and 3593A Plug in Module. Three commercial grade "C" band Satellite TV receivers, a large quantity of 75 ohm CATV cable connectors and drop taps, several drawer slides and a 6 foot open rack. Thank-You Richard.

Ivan, **N6OLE**, donated several hundred Integrated Circuits to PARC in hopes that we can start a IC bank for our members. Many of the older IC's are no longer in production and just like Vacuum Tubes are becoming hard to find. If anyone would like to volunteer to be in charge of the IC Bank please call me. Thank-You Ivan.

Ellen, **N6UWW**, has volunteered to be in charge of the setup of the **chairs and tables** for our General Meetings. Sybil, **W6GIC**, has had a hard time set-

ting up the meeting room and meeting with the Guest Speakers before the meeting. I will be appointing Ellen Special Assistant to the Vice President at our next Board Meeting. Thank-You Ellen.

Sybil, **W6GIC**, resigned as SANDARC Representative for SANDRA. I have appointed Sybil as SANDARC Representative for PARC along with Bill, **KB6MCU**, who has served for several years as our SANDARC Representative. Stan, **W9FQN**, and myself will remain as alternates. Thank-You Sybil, Bill, and Stan.

Bob, **KA6NZL**, has the new replacement for the **147.130 Repeater** ready for installation. Look for this one to be on the air soon. Thank-You Bob.

It has come to my attention that **Profanities** were used by PARC Members and directed to other PARC Members, on two separate occasions while in QSO on our repeaters this Month. I ask all members to refrain from calling each other names and count to ten before speaking. Using profanities is in violation of the FCC Rules (97.113 d) and PARC Repeater Policy.

Name calling serves to create anger, promote jamming, chaos, and causes friction between PARC Members. Most Amateur Radio Operators have worked hard to divorce themselves from activities on the 11 Meter band, and the above mentioned activities undermine those efforts of most all of us make to keep our repeaters clean and friendly.

Please reach for the off switch before you lose your temper and dignity. Showing your navel intelligence, on our repeaters, is not something to be proud of!

If you are a YL please check in to our new YL Net on 147.130 every Sunday at 2:30 P.M. The Net was approved on a trial basis at our last Board meeting. See Carol, **KF6EFN**, for details.

Norbert, **KJ6ZD**, is planning to leave the area next summer. Norbert took over the PAL-BBS after a very rocky start and it now has over 140 users each

day. Norbert purchased most all of the equipment that is now in use for the PAL-BBS.

Norbert has exceptional People and computer skills. He has the PAL-BBS functioning extremely well with no complaints since he took over the BBS. We owe Norbert a great deal of gratitude for his unselfish giving of time and money to make the PAL-BBS the best in Southern California.

We will need to find a replacement for Norbert and fund new equipment to replace the equipment that Norbert owns. I am asking for volunteers to take over the PAL-BBS. I should have a list of equipment that needs to be purchased in the next few weeks.

Equipment is only half the equation. We must have a Member, or group of Members to continue this worthwhile project. We need to choose some one by early next year so that Norbert can train them on the software that he has for the PAL-BBS.

I can not thank Norbert enough for saving this venture into Packet Radio for the Club. If you have any interest in helping with this project please contact me soon. Thank-You Norbert for a job well done.

73, & Happy Thanksgiving, Art

+ + + + +

Board Meeting

Board meetings are always held on Thursday at 7:00 pm on the week following the club meeting at various Board Member QTH's. All club members are welcome. You receive one participation point for attending.

The 7pm meeting started at 7:08pm with VP **W6GIC** initially presiding. Board Mbrs present: **W6GIC**, **KC6YSO**, **KB6NMK**, **WB6IQS**, **W9FQN**, **KC6WAN**, **AB6QT** & **WB6PKK**, & **KC6UQH**. Others: **KF6EFN** (YL/XYL Net), & **KB6MCU** (ATV).

(minutes abbreviated by the editor. See David-KC6YSO at club meetings for complete minutes of the board meetings or E-mail at kc6yso@amsat.org.)

SECONDS

Discussed/Approved: minutes, treasurer's report, programs, nominating committee directions, meeting scheduling conflict, **WB6PKK** to re-

view auction, **W9FQN** reaffirmed General Net Manager, club policy for groups, control policy work by **AB6QT**, Pkt Node Firmware by **WB6PKK**, 809 members, camper gift accepted de **WB6GXR**, repeater outdoor cabinet accepted de **WB6PKK**, \$100 for 100' twr, repeater use requests, ATV off site **KB6MCU**, **W6GIC** and **KB6MCU** appointed SANDARC reps, request 6m crystals, request for 6m emergency repeater, next board meeting at QTH of **W9FQN** Valley Center, adjourned at 9:40pm.

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Vanity Calls Delayed

Date: 96-10-06 de Bob-W6VR

Just in case you hadn't heard, here is an extract from the latest ARRL Letter concerning Vanity call sign delays:

If all goes well at the FCC's Gettysburg, Pennsylvania, office, you might have that new vanity call sign you applied for under Gate 2 in time for the ARRL Sweepstakes CW weekend (November 2-3). "We're looking at something like four weeks" before making any grants, an FCC spokesman said this week.

"It may be sooner, it may be later." The FCC said the number of personnel available to enter application information and call sign lists is limited, and "keying in up to 25 call signs and then verifying that they were keyed correctly is not a very fast process." It's hard even for experienced personnel to maintain the pace, the spokesman added.

The FCC will not start making any grants for first-day filers until all day-one applications have been entered into the FCC's computer. Then, applications will be processed randomly from among those in the first-day pool.

The number of hams taking advantage of Gate 2 has been less than anticipated. As of September 25, the FCC had received 5297 Gate 2 applications. First-day vanity filers totaled 4527.

The Golden Rule
+ + + + +
He who has the gold Rules

Do your ARRL membership thru PARC who then gets to keep part of the money! See Jo-KB6NMK at meetings.

Flying Samaritans need eye-glasses. see Nash W6HCD at meetings
The eyeglasses are for others! Take for the pilots!



For Sail

W6NWG@amsat.org



Phone or send ads to your editor before the 20th of each month. Copy your ads after the form used here in. Personal equipment ads are free to members such as listed below and might be "bumped" after 4 mo. for newer ads:

NEW ADS.

(10-26) 7ea Zenith laptops 286 disk \$100ea, portable for pkt/RTTY, need 12vdc or 16.5vdc@2a wall plug: Larry W7HKI 439-5855 Ocsd.

(10-03) Ameritron Amp 600w \$300; PK232MBX \$150; Hickok Tube Tester \$75; Astron 12v 6a Pwr Sup \$30; Ham Keyer \$40; 2 low pass filters \$20ea; SWR-watt meter \$20; Vibroplex Bug \$35; Bencher Paddles

Ads sent to our club box 73 in Vista can only be given to your editor twice a month so send them to 30311 Cir. R Ln, Vily Ctr, CA 92082 before 20th of month or W9FQN@amsat.org.

\$40; Fax Modem \$100; Leica 35mm, 50mm, 135mm lenses (Antique) \$200; Larsen 2m-70cm mag mount ant \$30; 5/8th 2m ant \$10; Gordon W6MYV 967-7847 Ocsd.

(9-16) HO Scale Train layout-64sq ft. 4 engines, 30 cars, 15 electric switches, 5 siding freight yard, 2 siding

Please let me know if you buy or sell so I can take out the ad -Ed.)

passenger yard, 1 siding main line, city with people/cars/buildings/paved roads, airport with paved runway, airplanes, hangers, elev track incorporated to main line, 1 siding cattle yard, turn table for engines, and much more. Still set up to see. Asking \$550. Will help take down and move at no extra cost. Mark, KC6CZO, 739-1533, hisword@ix.netcom.com.

(8-22)Triax H354 heavy duty tower, make offer: Ted W6WXS 818-363-6633 Granada Hills, SFLy.

(7-17)VCR, Sanyo late model with Beta II & III 6hr modes, 30 extra tapes,

Commercial Ads in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought. Ads billed Feb., May, Aug., & Nov.

Timer record & remote control \$75.00 OBO: Larry W7HKI 439-5855 Ocsd.

(7-16)AOR AR-1000 (HT type) scanning monitor 8MHz-1.36GHz + cell, 1000 channels \$250: Bill KD6BFR 480-6805 Escondido.

(6-1)ICOM FT-51R 2m/440 dual band HT w/remote hand mic. \$400: Chuck KE6TXQ Pager 1-800-804-9168 Carlsbad.

(5-18)Butternut Ant w/cables etc; Hustler ant w/mount/masts + assortment of tips/coils 10-80m: Joe N6RVO 433-6885 Ocsd.

(04-24)Yaesu FT-5100 2m/440 xcvr like new w/decode & mobile quick release bracket \$550: Dinh KE6KDP 941-1529.

WANTED: A few good men/women

(10-25) Need 16.5vdc @2A power supplies for Zenith Laptop computer(s), also 12vdc @2A: Larry W7HKI 439-5855 Ocsd.

(10-08) need CTSCC Tone unit TU-35B for Kenwood TR2600A HT: Bob W7DHI (N7IKV) 757-3327 Ocsd.

(9-26) stepdown/up transformer 220v to 110vac for microscope at 400-500 watts: Nash W6HCD 940-1028 Fallbrook.

(9-10) QST's in average to good condition: Hugh K4ESQ (call W9FQN 749-0276 for unlisted phone number).

(8-3) need information of the modification of a communications monitor, CE-3, for "opening" up the 70cm band: Mike AB6QT 742-1573 PMt.

(7-18)Still looking for Kenwood TH-28A HT manual ..lost phone # of previous contact: Pat KC5NJU 746-1644 Escondido.

(5-21)Dead or Mal-functioning DEO QSK-1500 RF Pin Diode Unit: Dennis N6KI 271-6079 Sandago.

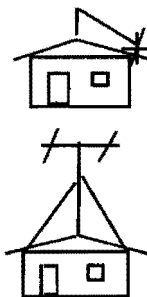
(05-4)SP-520 spkr cabinet; PC-1 phone patch: Henry WBØYCQ 722-5394 Ocsd (leave message).

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PARC Identification(s)

Caps, \$5.00; Old badges (circular ones), \$1.00; and New Badges (blue rectangles), \$7.00 (this will be mailed to your home).

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Antenna

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If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate! Radio systems installation, repair and removal, and interference resolution.

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Please check our complete ads in QST, 73, CQ, and World Radio magazines.

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|-------------------------------------|---------|
| '97 Callbooks (ret.\$39.95) | \$29.95 |
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| QRZ!! Ham LRadio CDROM | 17.95 |
| '96 Callbook (N.A. or Int.) | 17.95 |
| '96 Callbook CDROM (12/95) | 25.95 |
| '97 ARRL Handbook (ret. \$38) | 36.95 |
| '96 ARRL Handbook (ret. \$38) | 26.95 |
| ARRL License Manual (Gen/Adv) | 9.95 |
| ARRL Repeater Directory | 6.95 |

(other ARRL publications: call)

Call Duane AA6EE 789-3674

Art Smith W6INI

UPDATE: Art has had some problems with his legs ..no strength and some loss of usage which was apparently attributed to his taking a blood thinning medicine.

Art's medication has been changed and he has been put on therapy to reverse

the situation. Art is now able to walk using a walker but complete recovery will probably take another few months.

He is feeling much better and has been on the 75 meter ARES net and is back to playing with his computer.

For many years Art-W6INI was Mr. ARES and Mr. ARRL, and has contributed greatly to amateur radio in San Diego County. We wish him well.

+ + + + +

6m ARES Net

David Doan KC6YSO@amsat.org

The ARES Six Meter Section Net Report for September 1996:

Net time: 2000PST Saturdays on 52.68 -500 PL107.2 on the PARC Repeater.

Number on Roll: 25 (Two are checking in thru a remote base)

Checkins: 9/7-15; 9/14-14; 9/21-12 and 9/28-15 checkins.

A poll on 9/28 of the checkins indicated 11 of the 15 checkins were ARES members.

Currently, 11 of the 25 are Palomar Amateur Radio Club members.

If you have six meters FM, you are invited to check into the net even if you are not an ARES member. We would like to see how many hams in SDCo are able to get on 52.680(-) with a PL of 107.2Hz.

We would especially like to have reports on how the repeater performs relative to the club's two meter repeaters which are at the same site.

+ + + + +

CA QSO Party

Harry Hodges WA6YOO@amsat.org

An all YL contest operation for the California QSO Party (CQP) took place at the QTH of WA6YOO during the first weekend in October (5th & 6th).

The Team Leader and Head Cheer Leader was Ellen, N6UWW. The team,

totaling eight ladies, ranged in age from 15 to 70 and in amateur radio experience from No Code Technician to Extra Class. Using the call sign AC6FL (All California Six Foxy

Ladies), operations were conducted in the General Class portion of the 15, 20, 40, and 80 meter bands.

Scoring was number of SSB QSOs (909) times 2 times multiplier (57 of the 50 states and 8 Canadian provinces) = 103,626 total points. Note: No contact with the Canadian Northwest Territories - bummer!

Operators in this event were: Ellen, N6UWW; Jo, KB6NMK; Gayle, KM6WF; Becky, KE6BUE; Cindy, KD6TBY; Megan, KF6FYJ; Carol, KF6EFN; and Jennifer, KM6WG.

Lots of chips and dip, party mix, and other goodies. A good time was had by all and they'll all be back next year attempting to raise their score!

Harry's wife Jerry played house mother and as for Harry - - Lots of TV, reading and napping. "I didn't want to mess up their concentration!"

+ + + + +

Repeater Policy

At the October Board meeting the Board reaffirmed club policy in several areas.

1) **146.730** is primarily a calling frequency and for short contacts. An exception is the morning commute mobiles and the evening mobiles. Base stations are encouraged to not transmit during those commute hours but to stand by in case there is a traffic problem that needs attention.

If a base station wants a contact with a specific mobile, he/she is encouraged to BREAK with a call sign and then move the station needed over to 147.130 or to 147.075.

Base stations should not use 146.730 for long discussions of computers (or any other long winded subject) during the day when 147.075 can be used. Keep 147.730 free for calling stations.

In the morning commute, if there

are too many stations, those with similar interests should move to 147.130 for contacts.

2) **147.075** can be used as a rag-chewing frequency or for specific contacts of longer duration between base stations. It is also a good frequency for husband/wife contacts.

3) **147.130** is mainly used for autopatches and where stations are in marginal areas that need contacts (ie, mobiles).

We hope that this will keep 146.730 from being jammed up with routine traffic when the other two repeaters remain relatively quiet compared to 146.730.

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Auction Update

Paul J. Lackey, N6ISC

The annual PARC Auction was held at the October 2nd meeting and provided some excellent entertainment for a house of 74 attendees. The bidding was lively and often spirited which made it fun for all. Hopefully some excellent bargains were there too.

A vote of thanks is due all the good people who helped run the show: Art, KC6UQH; Marvin, WB6PKK, who furnished data forms and information from last years' auction and helped with the logging of sales plus giving needed advice; Becky, KE6BUE, who handled the bidders registration and passed out bidding cards; Ralph, KC6WAN, who helped Becky and still carried on his membership duties and later on assisted at the logging table; Dennis, KE6MQC and his son, Zac, KE6MQB who moved equipment from table to table, recorded sales info on the runners' cards and brought the required info to the people at the logging table for tallying; John, WB6IQS who also moved equipment as needed and provided back-up data for cross checking the runners cards (things got a little hectic at times for the runners); Ellen, N6UWW, who helped at the logging table as did Les, AC6XB; and a very special thanks to Jo, KB6NMK, who handled the sellers registration, ran the logging operation, took charge of



the financial end of the program and in general helped to keep the show on track.

In addition too the above, thanks to Bill, **KB6MCU** who provided advice for arranging the tables to facilitate the display and sales of the equipment; all those kind folks who helped set up chairs and tables; those who stayed behind after the auction to put the chairs and tables back in storage and to set up the room for the next group coming in. A special pat on the back should be given to those hams who donated equipment to the club.

Financially, the auction record shows that the total sales was \$1,238.00. The club made about \$365.00 of which \$275.00 was from the donated equipment.

THANKS AGAIN, EVERYBODY!

+ + + + +

Know Your ARES EC's

Frank Littlebury **KE6WOE@amsat.org**

Listed Below are the Northern District Emergency Coordinators, their telephone numbers and the local city/community net frequency in times of emergency. Call them up, introduce yourself and volunteer for ARES in your area. We can use your help, and so can your neighbor!

Carlsbad - Wayne - **WD6AHX** - 729-3110 - 146.590

Encinitas Area - Chris - **KF6ELO** - 436-9826 - 146.570

Escondido - Jo - **KB6NMK** - 741-2560 - 146.880(-)

Fallbrook - Bill - **WD6AHW** - 728-6912 - 146.175(+)

Lawrence Welk Area - Art - **WA6MUW** - 749-3458 - 147.560

Oceanside - PC - **WA6TIL** - 630-1311 - 147.580

Poway - (OPEN: **K7DCG** Acting) - 147.3 103pl

Ramona - Terry - **WD6EDG** - 789-4059 - 145.720

San Marcos - Paul - **N6ISC** - 489-5857 - 146.330(-)

Valley Center Area - Stan - **W9FQN** - 749-0276 - 146.175(+)

Vista - Larry - **WA6UTQ** - 758-5820 - 146.595

Red Flag - Nash - **W6HCD** - 940-1028 - 146.730(-)

EVAC - Scotty - **KH6TL** - 727-8836 - 146.730(-)

EMS - Ted - **KF6BFI** - 757-5393 - 144.400

ARES Needs Your Support..

As most of you know, ARES members and many of PARC's members provided virtually non-stop emergency communications support to various agencies involved with community services as a result of the fires throughout San Diego County during the last part of October.

While we were able to get the job done through long hours and dedication by our members, one of the valuable lessons learned was that we need more ARES members in order to support a disaster of this magnitude (or larger) and duration.

In the Northern District alone, at one time ARES volunteers simultaneously supported three Red Cross shelters, the Carlsbad Emergency Operations Center, and several "roving" spotters, while maintaining a contingency of reserve communicators for emergency deployment where needed.

This time we were fortunate in that the duration of the emergency was relatively short. Next time we might not be so "lucky"...ARES needs YOUR help, and we need it today!

If you are not a member, contact your local Emergency Coordinator and sign up! If you're inactive, consider becoming an active ARES participant in your community again. The following cities/communities critically need more volunteers:

Encinitas/Leucadia/Del Mar area

Oceanside

Carlsbad

Vista

San Marcos

In addition we need more Emergency Medical Support (EMS) communicators to provide ancillary hospital emergency service communications during emergencies that result in high emergency room usage in all five of our North County hospitals.

Questions? Contact Dennis,

NiCad Lady N6WPA

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609 Washington Drive,

San Marcos, CA. 92069.

Tel(619) 744-7266, Fax(619)744-4745

K7DCG, Northern District EC at 748-9046 or Frank, **KE6WOE**, ADEC at 941-9174.

For N.Co Emergency Medical Support, call Ted, **KF6BFI**, EMS Coordinator at 757-5393 (Ocsd).

+ + + Fire News:

KPRZ, 1210 kHz, San Marcos was knocked off the air by the La Costa/Harmony Grove fire. The station left the air at 1610 PDST on Monday (10/21/96).



U.S. Postal Service STATEMENT of OWNERSHIP, MANAGEMENT & CIRCULATION

1. SCOPE; 2. #076530; 3. 10-29-96; 4. Monthly; 5. 12; 6. \$3; 7.&8. PARC Inc., 30311 Cir. R. Ln., Vily Ctr, SDCo, CA 92082-4806; 9. Pub/Ed/M.Ed Stan Rohrer, 30311 Cir. R. Ln., Vily Ctr 92082-4806; 10. Owner Palomar ARC Inc., P.O.Box 73, Vista, CA 92085-0073. 11. No Bond holders, mortgages, etc; 12. Status not changed in past 12 Mo. X= Ave # Cpy ea. issue last 12 Mo. Y= Actual Cpy last issue (Oct 96) 13. SCOPE; 14. 09-24-96

| 10. Extent of Circulation | X | Y |
|------------------------------|-----|-----|
| a. TOTAL COPIES (net) | 847 | 810 |
| b. 1. Pd/requested | 0 | 0 |
| 2. Mail Subscription | 793 | 754 |
| c. TOTAL PD an/or Req. | 793 | 754 |
| d. Free Distribution (mail) | 35 | 36 |
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| 1. Office | 0 | 0 |
| 2. Returned | 0 | 0 |
| i. TOTAL | 847 | 810 |
| % Pd. and/or Requested | 94% | 93% |

16. Nov. '96; 17. Editor: Stanley E. Rohrer
Signed: _____

According to Operations Manager Monica Murray, the KPRZ transmitter plant was NOT damaged by the fire which only burned UP TO the property line.

**PARC
VE
Pro-**

gram

Rusty Massie, AA6OM 747.5872
1249 Nordahl Rd., Escondido, CA 92026

SANDARC VE testing locations are now charging \$3/session. You must have exact change! PARC testing is the 2nd Saturday of each month at the Carlsbad Safety Center in Carlsbad at 9:30am. Contact me seven days before the exam date so that I can have the proper test(s) available for you.

39th Jamboree

Harry Hodges WA6YOO@amsat.org

As part of the celebration of the 39th Jamboree on the Air, a den of Cub-Scouts from Poway descended on my shack for a morning of on the air contacts with other Cubs and Scouts around the country.

The group was shown the film "The New World of Amateur Radio", had a chance to handle keys and HTs and to see demonstrations of APRS, Packet, and RTTY, and finally to sit behind a mike and talk to others over the air.

A twenty meter contact was made with a Scout troop at Fort Sill, OK and each of the Cubs were able to exchange names, ages, and favorite sports. Before leaving they devoured a large quantity of oreo cookies and glasses of milk.

JOTA is held each year on the third

weekend in October and roughly 300,000 Scouts world-wide are involved. Contact your local Scoutmaster or Cub Scout leader and begin preparing for next year!

Traffic Net Computer

Charles Miel N6TEP (PALBBS)

Bob Byrnes-KE6MTT has offered anyone who will volunteer to be a net control for the evening traffic net (SDCTN) for six months a free 286 PC computer. (great for packet! -Ed)

You would be required to take over the Wednesday or the Saturday evening traffic net each week during the six month period which should amount to approximately 25+ nets.

Please contact me any evening after the 8pm San Diego County Traffic Net.

When the net has large volumes of message traffic, the net has been cleared to use RTTY on 146.730 to pass the traffic. About 15-20 messages can be passed with in a few minutes so the strange warbling sound will not be on the repeater very long.

Mexican Licenses

Dennis Vernacchia N6KI@amsat.org

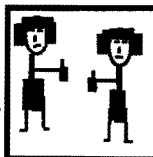
The latest word is that licenses are being issued out of Mexico City. It is suggested that you call Marta at the Mexican FCC (SCT) office in Tijuana for latest information: 011 52 66 803626.

YL / XYL Net

Carol Monahan KF6EFN@amsat.org

We have just started up a new YL / XYL net. We have only had a couple of nets and we would like to have more YL / XYL's or even third party traffic join us. Lady's only of course. We get together on Sundays at 2:30 in the afternoon on the 147.130 repeater. We will try to choose a different topic each week..

We would really like to have you join us.



S.Marcos Peak Fire

Bob Gonsett W6VR@amsat.org

Lake San Marcos Peak escaped the flames at the San Diego County communications site near Lake San Marcos. (LSM) escaped the Questhaven- Carlsbad fire by a scant 15 feet according to Steve Cilurzo (relaying info from Steve Jacobs of PAR Towers). As you might imagine, the site did lose power.

Fire Stories

Please send your fire stories to your editor for possible publication in the December issue of the SCOPE.

Words Words Words

Members need to remember that our repeaters cover over 2,000 square miles of SDCo so be careful of your words on our repeaters.

We have noticed lately 2-3 members using words that most PARC members would classify as "unacceptable" on our repeaters.

Sometimes it is understandable that someone might get perturbed at what is being said or the implications of some remark but we all need to remember that our repeaters advertise amateur radio and PARC so most of our members would appreciate your restraint in the use of unacceptable words and arguments on the repeaters.

If you have a serious problem, make arrangements to "duke" it out in some empty field ..but not on our repeaters.

A person who incites another person into bad language is probably just as much to blame as the person with the bad language.

Free Pkt e-mail

Ted Stork kd6akt@w6trw.ampr.org

To send free packet e-mail, just connect to TCPTRW in LA and register. You can get into TCPTRW through ESCN to KC6UBI-7. Then connect to TCPTRW.

**You
can't
get
there
from
here!**



Technical and Operational Things: Repeaters, Autopatches, News, etc.

Autopatch Update

Jerry Houser WB6FMT@amsat.org

Around October 15th the autopatch system really started to act up with the patch acting normally during most of the daylight hours and malfunctioning during the night time hours.

Sometime during the week of 18th the problem became worse not allowing anyone to get into any part of the system. Testing from north county points towards a failure of some sort in the main board which all signals must pass through.

Another board has been checked out and will be installed ASAP. We hope that problem will be corrected by the time you read this (*It has -Ed*).

+ + + + +

Technical Meeting

PARC's annual technical committee meeting will probably be held towards the end of January or the end of February.

Anyone with proposed projects for the technical committee should start working on them now for presentation to the committee.

+ + + + +

146.730(-) Usage

Members are reminded that the 146.73 repeater has over the years become our club member's meeting place. This is almost to the exclusion of our 147.075 and 147.130 repeaters which have considerably less usage.

Mobiles have the highest priority for use of 146.73 during commute times. We would like to see our members monitor 146.73 and then move off to one of our other repeaters to finish their communications when the conversation could take more than five minutes.

If you are using one of our other repeaters for personal contacts, by all means keep using them in that way.

Our concern is that we are having a lot of conversations on 146.73 dealing with specific subjects which chew up

large amounts of repeater time.

We are also concerned that as more and more pressure comes on repeater frequencies, we have more and more a chance of losing those frequencies which are not utilized properly.

If you are going to talk about things which are going to take 4-5 minutes, please consider moving to 147.075 or 147.130.

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!! RESET !!

The PARC RESET timers are set for about 100 seconds. Their purpose is to limit individual transmissions to 100 seconds or less by shutting down the repeater for a length of time and also to shut down the repeater when a signal of longer duration is present except when under the control of a Control Operator.

The limit on conversation length is so that emergency stations can break into conversations at least every 100 seconds and this cannot be done with long winded users who try to defeat the timer by releasing their microphone and re-setting the timeout timer with or without an announcement of what they are doing (ie., saying "RESET" and dropping their carrier briefly).

The only stations that are to use the "RESET" are stations carrying emergency traffic or San Diego County Traffic Net handlers (SDCTN).

+ + + + +

Sensitivity

Why do some of our repeaters not "hear" you very well from time to time? Possible answers in order of probability are listed below -

- 1) You could be in a bad transmitting area.
- 2) You have weak batteries in your HT.
- 3) Rain or atmospheric conditions could cause a reduction in signal strength. This can be checked easily by looking at one of our other 2m repeaters to see if they are normal. It has

been noted that signals from Palomar Mountain are stronger by 3-6db from 8pm to 8am each day and the weakest around noon (*courtesy of Lloyd-W6TFB -Ed*).

4) A signal from another repeater on Palomar Mountain transmitting a strong signal is close enough in frequency to our repeater(s) that it desenses our receiver. There are several linked remotes near our site that could cause temporary problems.

5) The repeater receiver has a problem and needs work if the transmitter signal remains normal and the receiver remains numb for long periods of time.

Experience indicates that the problem is usually 1-4 when the reduction in receiving ability is temporary and signal strength from the repeater is normal.

If you look at your receiving strength indicator and you see that the repeater's signal strength is normal for the area that you are in, then it is probably #4 above. Especially so if the repeater seems to recover its lost receiver sensitivity after 10-40 minutes have past.

If you suspect #4, it would be of great help to PARC's technical group if you would start looking at frequencies 100kc up and down from the repeater input you are using.

For example, on 146.730 the input is 146.130 so start looking for other signals from 146.030 to 146.230 as a starter. If you hear anything on those frequencies, let us know the callsigns you hear so that we can trace down what might be happening.

+ + + + +

Work Parties

Stan Rohrer W9FQN@amsat.org

Next work party will be Sunday, November 17th (if there is no snow!). Bring 5gal of water for the little trees, lunch, drinking water, and sun cream or snow shoes.

Scheduled: irrigation, painting, heliix checking to and on the tower, heliix markings, site cleanup of branches, trailer storage organized, alarm system additions, fire protection, etc.

(10/6) Two of the lower guys were



changed out with cable that allowed us to measure the tension more easily.

Mike Fisher-KF6FSY, David Doan-KC6YSO, Dennis Markham-KE6MQC and Zac Markham-KE6MQB were ground crew cutting cable, changing fasteners, and stringing the new cable while Stan Rohrer-W9FQN changed out all of the cables on the tower.

Mike also received a tour of the site by David and Mike noted that he had experience with batteries and would be willing to help us measure the status of the batteries with some of the equipment he has available to him.

Dennis and Zac added another circuit to the alarm system.

Bill Smith-KB6MCU and Sybil Allbright-W6GIC removed the ATV repeater for refurbishing.

Less Silva-KH6CUJ worked on the irrigation system and helped with many odd jobs throughout the day.

Bob Wickord-KA6NZL and Art McBride-KC6UQH worked on the 147.075 and 147.130 repeaters and we hope that their efforts will give us better service on our autopatches. We were getting distorted audio out of the .13 repeater due to too high audio from the receiver getting clipped in an audio amplifier. The .075 repeater receiver crystal channel element was off frequency which was corrected.

If we would have had more helpers, we would have tackled the painting that needs to be done.

(10-10) Art-KC6UQH and Stan-W9FQN picked up Mac-WB6GXR's donated camper and moved it to the QTH of W9FQN for modification work to be done on it. Stan returned the borrowed crank lifts 10-17.

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Packet Net ? ? ? ?

PARC is wondering if there is any interest in continuing the 9pm Tuesday evening packet net on 146.730(-).

If so, then we will need net controls who would be willing to devote one night a week/month to the nets opera-

tion.

It has been suggested that besides packet that we include questions about the Internet and E-mail and possibly change the name of the net to the Digital Net which would serve all digital modes. Some of the suggested topics might be:

Packet Questions

Web pages

RTTY Questions

Operation of packet BBS's Q's

World Wide Web Questions

Packet to E-mail back to packet Q's

Our club has many talented members who would be able to devote one 15-30 minute segment each month to conducting a net which answers questions of interest to club members and to local amateurs.

Remember that you do not need to be an expert yourself since net controls traditionally ask net members to supply the answers ...and there is almost always someone out there willing to part with his or her knowledge.

What do you think? Can you help one night a month? Please funnel ideas and comments to your editor W9FQN as soon as possible.

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Packet News

Ted Stork, KD6AKT, PALBBS

I will have my portable packet station at the November meeting for those interested in Packet. It will be set up in the RACES/ARES emergency room across from the meeting hall. If you have questions, please feel free to stop in for "free" advice.

The Tuesday evening Packet Voice Net at 9pm see you there!

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Public Service Events

PARC members are reminded that Public Service events on our repeaters usually do not require continuous communications so feel free to use a repeater on a limited basis while the event is in progress.

In the past, 146.730 has handled most of the public service events because of its coverage and lack of PL requirement.

With the new 147.130 repeater on

line it might be possible to transfer public service events to 147.13 which should have almost equal coverage as the 146.73 repeater.

Public Service Event operators are advised that they need to share the repeater with club members and that they should feel free to BREAK into any PARC conversation if they have important traffic.

PARC members are requested to keep their conversations short and to allow for space between communications for BREAKS.

If you need to ragchew or hold a longer conversation, please use one of the other PARC repeaters not being used on the Public Service Event. Your help in this matter is greatly appreciated.

+ + + + +

BREAK!

Club members are reminded that conversations are somewhat like personal conversations between friends or they are informal conversations.

Walking up and butting into a conversation between several people sometimes is a NO-NO so we should be aware of proper etiquette.

Mobile conversations are usually a small to large group passing the time away while driving to work. They usually welcome your participation with the group.

There are various ways to get into a conversation with the following being arranged from "gee I would like to talk" to "I have an emergency."

a) CALLSIGN - just give your callsign at the tail end of someone's transmission. This means you are out their listening and you would like to be included in the next sequence of talkers.

b) BREAK CALLSIGN - This means that what you have to say is important enough that you would like to speak ASAP or before your normal turn.

c) BREAK BREAK CALLSIGN - you need to speak immediately.

d) BREAK BREAK BREAK CALLSIGN - what you have to say is an emergency involving "life and death" matters, or the protection of life and/or property. You should receive immedi-



HAM RADIO OUTLET

KENWOOD
rf CONCEPTS
DIAMOND
US TOWERS
KANTRONICS
YAESU
MFJ
ICOM
BENCHER, Inc.
HUSTLER
COMET
AMERITRON

Astron
OUTBACKER
Larsen Antennas
TEN-TEC
hy-gain
cushcraft
AEA
Tri-Ex
and
others too
numerous to
mention!

Drop in to see our
display of working
equipment.

Find out about Pkt
location determining
equipment (APRS).

Check out our
complete line of mag-
azines, ARRL books,
license manuals, etc.

Bulletin Board with
all sorts of goodies.

Open: 10a.m. - 5:30p.m.
Monday thru Saturday *Ask about our
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619-560-4900 or toll free 1-800-854-6046
5375 KEARNY VILLA ROAD, S. D.

Directions: On 163, take Clairemont Mesa Blvd. off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and HRO sign. Be sure to see our equipment in action on real antennas.

ate attention and everyone should stay off of the repeater except the people communicating about the problem.

You will note that PARC likes to see your CALLSIGN to be given in the beginning of each of these situations so that all stations know who making the transmissions.

Breaking with only the last two or three letters of your call is frowned upon since it is not your callsign.

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EMF Ruling (CA Supreme Court)

On August 22, the California Supreme Court affirmed that the California Public Utilities Commission is the appropriate authority for making policy decisions on whether electromagnetic fields (EMF) produced by electrical power lines of regulated utilities are a public health risk and on what action utilities should take to minimize that risk.

The court said that the Commission's 1993 determination - that there is insufficient evidence to establish that EMFs are dangerous - continues to be operative in California.

(Extracted from news brief in IEEE Spectrum for October 1996, Page 1) de W6VR

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ATV Range

According to some ATVers who operate 420-450MHz, at 902-928MHz you will get half the distance using the

same kind of equipment specifications and only 1/3rd the distance at 1240-1300 Mhz.

Every six dB increase in equipment gain doubles the distance for the same signal level, or improves the picture one P unit at the same location (P5 is a perfect picture).

It should be noted that at higher frequencies it is easier to achieve higher antenna gains.

On 70cm 10 watts PEP will give you 25 miles with a quarter wave spike and a 9dBd omni vertical.

At 5,000 feet which is the approximate height of PARC's antennas, the RF horizon over flat ground is about 100 miles and you should get a P4 to P5 picture with a 14 dBd receiving beam on 70cm. *(Tom O'Hara, W6ORG)*

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Repeater Range

PARC used to say our repeaters were reachable up to 200 miles out into the Pacific and then we changed it to 100 miles running 10-25 watts. Now members are indicating entry with 2-5 watts at 150 miles and Bud-NIROE is running autotatches with a rubber duck at 350 miles to sea.

It might be interesting to see who gets the most miles per watt (distance divided by watts). You will need a two way contact with someone and hold it for at least two minutes and we will probably need to have three sections:

rubber duck, extendable antenna, and mast mounted.

Submit your entry to your editor with date, power used, antenna type, callsign contacted, and distance to San Diego or Ocsd. (which ever is closer).

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New 147.130 Repeater

On October 26th a trip was made to the repeater site on Palomar Mountain (there was snow) to replace the old 147.130 repeater put together by Erick Thompson-KA6UAI and John Barcroft-WA6ZJC and it has served the club well over the years.

Bill-KB6MCU donated a Motorola Repeater which was in the commercial band around 156 Mhz to the club this summer and Bob-KA6NZL tackled the job of converting it over to the amateur bands.

This repeater has filtering in all interconnecting control lines which none of the other repeaters have at present. Bob installed a controller similar to the ones used in our other repeaters so this repeater will be easier to control than the old one.

Bob also made provisions for an autotatch connection which seems to be working quite well and he also installed a AC to DC transfer switch so that when we loose AC power the repeater will automatically switch over to DC automatically like our other repeaters.

Thanks Bob-KA6NZL!

Sun.146.730 8:30am AREmergency Service

Mo. 146.730 9:00pm Microwave Net
Tue. 146.730 9:00pm Voice Packet Net
We. 146.730 9:00pm (open)
Thu. 146.730 7:00pm Young People's Net
Thu. 146.730 9:00pm Ham Help Net
 (electronics, computers, antennas, license theory, etc.)
Fri. 146.730 9:00pm Hiker's Net

For Sale; 6m; Rpt
Policy; Auction Up-
date; ARES Info;
Fire; SDCTN; YL;
Mex; 146.73; Wrk-
Parties; 147.13 new..

 (if checked) **LOOK AT ATTACHED AUTO-PATCH SHEET. NOT CALLING PROPERLY!**

***Renew
Now!
Please
consider
renewing
for
several
years.***



Scope

Palomar Amateur Radio Club Inc.

Box 73, Vista, CA 92085-0073

Dec. *** 1996 ***** 60 Years Old**
 Dues \$12, Volume XXII, Number 12
 Coffee 7pm, Mtg. 7:30pm @ Carlsbad Safety Center, Palomar Airport Rd. to N. on Camino Real (S11), east on Faraday .25mi, left to CSC.
 ++++++ Talk-in 146.730 ++++++
 4-Patches 147.075+, 147.130+, 449.425-
 Pkt, ATV, 220, PALBBS & w6nwg@amsat.org

NEWS WORTHY (see page)

- 2-AGOGO; Board; Treas.; Swap; Stores
- 3-Election KB6MCU/N2DCA; Pres.
- 4-Editor; Computer Dust
- 5-For Sale; VE
- 6-Ham Count; Oscar Rivera; Top 20
- 7- Experts; This and That
- 8-Contests; New Calls; Ink; 73; Fire
- 9-Patch; Projects; Work Parties
- 10- Packet; Modem; Juno; Polluters
- 11- **ARES application**; 147.075
- MCW; Kenwood FTP
- 12-Application, Officers, Board, etc.

December Meeting

W6GIC@amsat.org

Sybil Albright

The program for the first Wednesday in December will be our Christmas party where we traditionally have our club election of new officers and display tables by local vendors of radio related items.

Club meetings start at 7:30pm but many come at 7pm to talk to friends, sample goodies & coffee, join in a seminar, get a good seat, or be first to see small items of equipment being brought in for the club's sale table where the club takes 10% of the selling price.

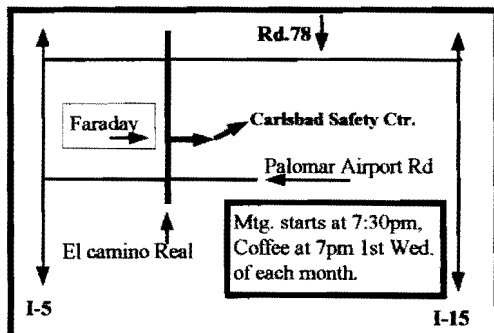
Check 146.730(-) for where some members are eating dinner before the meeting.

Please come early and help Ellen-N6UWW's crew set up tables and chairs ...and STAY a few minutes to help put them away. Your help is greatly appreciated!

Upcoming PARC meetings:

Send program suggestions to me at the club's POBox or my E-mail.

- (Jan 1st) Earl Leeder-KE6UFO hypnotist. (great callsign. He can help you copy and pass the VE code tests! -Ed)
- (Feb 5th) Open (any ideas?)
- (Mar 5th) Open (any ideas?)



KI6JM Equip. Donation

Before Jack died he indicated that he wanted PARC to have all of his radio equipment. The items donated were:

- Kenwood TM-251A 2m FM rig
- ICOM IC-735 HF rig with Astron RS-20A 20amp 12vdc pwr Sup
- Kantronics Packet Communicator 3,
- Kenwood TM-221A 2m FM rig
- Dumb Terminal + keyboard for Pkt, RS-20A 20a 12vdc pwrSup
- Antenna Rotator, 3el Triband Beam,
- 6el 2 meter Beam, J-pole 2m antenna and assorted small items

Since Jack was quite interested in supporting emergency communications, the Board has decided to keep the equipment and use it for:

- a) emergency use in trailer/camper
- b) weekend use in trailer/camper for those having antenna restrictions
- c) contests and Field Day

We are looking into attaching small plaques to each item. Thanks to KI6JM and family!

Field Day - 2nd in 5A! and 8th USA all classes

PARC again mounted a near winning effort in the 5A ARRL Emergency Field Day Exercise held each June placing 2nd in the 5A classification. More information next month.

Last Club Meeting

We were treated to a varied program of overheads, ATV video, and comments on equipment design above

Dec. '96 SCOPE

04 Club Mtg. Carlsbad Safety Ctr, 7:30pm

CLUB ELECTION CHRISTMAS MEETING

07 Santee Swap Meet (drive in theater)

12 PARC Board Mtg. WB6PKK QTH, 7pm

14 PARC VE Testing Carlsbad Saf. Ctr, 10am

Jan 1st meeting will be Jan 8th!!

1GHz by Ray Clancey-N6RE who had many humorous comments. The ATV shots from the tower of the LA basin were fantastic. (Wonder what SDCo. looks like from Palomar Mt.? -Ed)

..and thanks to Ellen-N6UWW and to Eric-K6AZ for setting up the chairs.

In attendance were 13 guests and 95 members for a total of 108. You receive one (1) participation point for signing in at each meeting and some of you are forgetting to do so!

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January Mtg. on 8th

Our January meeting will be the 2nd Wednesday since the 1st Wednesday (Jan. 1st) is New Years Day.

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PARC Election

See page 3 for additional nominations from the floor and election information.

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Many Thanks To:

Goodie/Coffee Table: On the coffee table were Art-KB6YHZ, and Bernice-N6WQR. Anita was under the weather.

Those bringing in goodies: Bob-W7DHI, Bill-KM6PY, Paul-N6ISC,



Barbara-KD6ECD, Bernice-N6WQR, George-W9STN, Norm-N6QQF, Jerry-N6TCB and Bob-AK6R.

And a big thanks to all those who helped set up tables and take them down. Your help was greatly appreciated.

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Long AGOGO (history)

K6HAV / K16JM(s) / W9FQN

(12-95) ...Ron Wilhelmy, WI6B, resigns as W6NWG trustee and Mike Doyle, AB6QT, assumes the responsibility ..Juan-KE6KNN taking Christmas messages ..Jennifer Thieme, KM6WG, treasurer steps down ..attendance 102 at Nov mtg ..W6NWG 3rd in FD class 5A ..history of club membership ..\$15,253 in bank ..Dora Tuttle-KE7DR SK ..list control operators ..new guy wires attached ..businesses invited to Dec mtg ..Young People's net started 146.730 ..PALNOD connection diagram ...

(12-91) ...deviation clinic by Larry-KC6PEN (AB6LY), Art-KC6UQH & Mike-KC6KCQ (AB6QT) ..attendance Nov. 100 ..Elmer list ..\$7,116 in the bank ..Stan-W9FQN steps down as president after seven years and club accomplishments listed and "thank you" ..Ralph-K6HAV and Pat-N6INN donate PO Box 73 to PARC (for ever thanks -Ed) ..lower 3rd autopatch center installed ..Stan-W9FQN & Jerry-WB6FMT programmed over 400 phone prefixes into the computer(s) ..147.13 and 449.425 still need to be connected to autopatch system ..Dennis-N6KI on winning #1 in 5A Field Day competition & #6 all classes in USA (this is the first of three 1st places -Ed) ..VE Exams are now at Carlsbad Safety Center ..Art Smith, W6INI, retires as ARRL SCM after 18 years ..story on Felix Ferranto-N6IE ..Guy Rowlett, KB6AI, SK ...

(12-86) ...Christmas mtg with Phil-WF6L providing music ..ARES Sunday morning net taken over by PARC after going "belly up" ..need \$1000 to pay off repeater note ..finished 21st in 4A Field Day, 2nd in state, 2nd in SoCa, and 1st in San Diego ..VE at Joslyn Sr. Ctr in SM ..Joe-WA1CSO

passes Advanced & moves to New England ..Phil Schutze-K6ROR ends 10-12 years as membership chairman, short stint as Editor ..George (Skip) Maynard-K6RTD takes over membership duties

...(see your editor for copies of newsletters)

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November Board Mtg

Minutes from the club secretary are abbreviated to "seconds" by the editor. See David Doan, KC6YSO, for the real thing!

Seconds (approved)(discussed)

11-21-96 W9FQN QTH; 7pm mtg started at 7:23pm with W6GIC VP presiding; attending were Board members W6GIC, KC6YSO, KB6NMK, W9FQN, WB6IQS, KC6WAN, WB6PKK and KC6UQH; KB6MCU ATV and KE6WOE for ARES ND; minutes of last meeting; KB6NMK's treasurers report; KC6UQH arrived 7:28pm; insurance by W9FQN; candidates privileges; voting methods; W6GIC on Dec/Jan mtgs; Jan Mtg Jan 8th; clarification of Sponsored Net Policy; Non-Regular Group Users Policy; ARES ND request for use of 146.730; SANDARC delegates to abstain on TASMA/TMRCC voting; buying of PALBBS equipment from KJ6ZD @ \$1,480; RACES BBS on 30 day test on 146.7; 820 members; Americas United \$5/mo phone charge; Swan rig to Red Flag; KB6MCU to give two Novice/Tech classes next year; next Board Mtg at W9FQN; adjourned at 10:07pm.

Treasurer \$\$\$\$\$\$

Jo Ashley, KB6NMK@amsat.org 09/30/96

| | |
|------------------------------|-------------|
| Certificate of Deposit | \$ 2,406.46 |
| Certificate of Deposit | \$ 2,047.30 |
| Certificate of Deposit | \$ 2,040.97 |
| Checking | \$ 9,938.90 |
| Cash & Bank AccountsTot. | \$16,433.63 |
| Future Year(s) Obligations | \$ 9,066.50 |
| Equity (available for Equip) | \$ 7,367.13 |

Past totals: Nov. \$15,681; Aug. \$15,764; July \$15,407; May. \$13,708; and Jan. \$13,388.

Club members are invited to look at the treasurer's detailed reports at Board meetings or at club meetings.

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Future Expenses \$\$\$\$

Upcoming expenses: Equipment PALBBS \$1,500; DSP unit ~\$245; Liability Insurance ~\$1,300; Taxes ~\$150; Scope printing ~\$300/mo; Scope postage ~\$70/mo; electricity ~\$130/mo; phone(s) ~\$50/mo; trailer jacks \$250; climbing belt \$100; etc.

Under consideration: 2m duplexer(s) ~\$1,000ea; 6m repeater spare ~\$200; 449.425 repeater spare ~\$200; spare antennas \$600; trailer and camper mods ~\$300; portable small metal building mods and repair ~\$100; small metal building at site mods ~\$100; AC lightning filters ~\$450; etc.

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Swap Meets

The Fontana Swap meet is 2nd Saturday of each month. The DeVry (Pomona) is the 3d of each month and of course the TRW is the last Saturday of each month.

Here in San Diego, the Santee Swap meet is the 1st Saturday of each month.

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Radio Stores/Services

There are many radio parts stores in the San Diego County area and we would like to list as many as possible.

Our beginning list starts with - AB6LY Radio Repair - repair of all types of radio equipment. Located in Oceanside.

Antenna Specialties - radio system installations, antennas, towers, etc. See ad on page 5 of SCOPE.

Comer Communications - computer controlled transceiver(s).

GPS Display Kit - serial display for lat-long receivers. Pg.3. j@harper.com or 990.9046.

Ham Radio Outlet - Claremont Mesa. Radios, antennas, towers, books, etc. Pg.11.

Gateway Electronics, 9222 Chesapeake, SD 92123 From HRO go north on Kearny Villa Rd past Claremont Mesa Blvd less than a mile make a right turn on Chesapeake. 1/4 mi East on No. side of road.

Industrial Liquidators - all types of surplus radio and mechanical parts in



bins. Located at 204 S Rancho Santa Fe, San Marcos and also at Convoy St. south of Clairemont Meas Blvd on the East side of the st.

NiCad Lady - supplies new and replacement ni-cad packs of all types. Pg.7. (909) 789-0830 or

nicdlady@deltanet.com

Palomar Engineers - Escondido. See ad. page 5 of the SCOPE or any radio magazine for their multitude of amateur radio products. Call Jack Althouse, K6NY, at 747-3346.

75353.2175@compuserve.com

Radio Shack - Throughout the County. Check phone book for local address. Small parts, Ham Radios base/mobile and HT's, antennas, etc.

WB9COY VHF/UHF Antennas - all types of 2m, 70cm, etc. antennas. Contact Gene Swiech at 748-0708 or see his antennas at HRO.

eswiech@aol.com

If anyone has any additions or corrections to the above for the next running of this list, please contact your editor with the needed information.

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Editor

Stan Rohrer W9FQN@amsat.org

The SCOPE was mailed Tuesday at 2pm on the 29th and arrived at my QTH in Valley Center on the 31st.

During the club's 60th year the SCOPE has contained many items of club history and since we have not exhausted all of them, we will continue publishing items during our 61st year.

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December Election

The nominating committee nominated Sybil Albright, W6GIC, for VP

which she declined at the November club meeting and she in turn nominated Bill Smith, KB6MCU, for Vice President.

Each candidate will receive 1.5 inches of SCOPE copy and 3 minutes of speaking time at the December club meeting before the election.

The following club members are running for VP in 1997:

FOR VICE PRESIDENT

Bill Smith, KB6MCU

I have been a member of PARC 7 years. For 3 years I have taught PARC Amateur Radio License classes (Nov/Tech/Gen/Adv). I video tape our general meetings when we have speakers and have contributed to the technical part of our club by building a backup repeater, donating the basic 147.13 repeater, and building the Amateur Radio Television repeater. For 2 years I have been the assistant to the Vice President.

Allen Maslowski, N2DCA

A vote for N2DCA means continued success for PARC. I have held the office of Vice President for four years for the 10-70 Repeater Assoc. in NJ 1982-1986 and have held the office of President for three years before moving to CA. With over 15 years as a general class HAM and past officer experience, and QTH in North Co., I am close to the board and repeaters. Please vote N2DCA.

- - - - -

The secret ballot will contain only the names of KB6MCU and N2DCA since the other positions are not contested and will be declared elected at the end of the December club meeting. Elected officers take their positions immediately after the December club meeting.

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President's Wave Length

Art McBride, KC6UQH@amsat.org

It is hard to believe that I am about

P A R C BOARD

The board meets at 7pm on the Thursday of the week following the club meeting.

Pres: Art McBride, KC6UQH, 747.0253
VPres: Sybil Albright, W6GIC, 278.4284
Sec: David Doan, KC6YSO, 286.4888
Treas: Jo Ashley, KB6NMK, 741-2560
RptT: John Kuivinen, WB6IQS, 727.3876
SCOPE: Stan Rohrer, W9FQN, 749.0276
MSh: Ralph Powel, KC6WAN, 727.7415
Mem: Mike Doyle, AB6QT, 742.1573
Mem: Marv Munster, WB6PKK, 747-2223

VE Program: Rusty, AA6OM, 747.5872
 (2nd Sat. ea. mo. Carlsbad Safety Center)

ATV/Edu: Bill, KB6MCU, 582.2313

Editor: Stan Rohrer, W9FQN, 749.0276
 30311 Cir R Ln, Valley Ctr CA 92082

W9FQN@amsat.org / W9FQN@PALBBS
PALBBS: Norbert, KJ6ZD, 630.5538

145.070 PktSimplex, 146.700-PktDuplex

WORLD WIDE WEB: Frank, KE6WOE

<http://www.electriciti.com/parc>

GPS Display Kit

- displays lat-long, time, number of satellites
 - 2x16 LCD module with LED backlight
 - connects to GPS receiver serial output
 - recognizes NMEA 2.0 GPGLL lines
 - computes and displays 6-digit grid square
 - low current draw (13mA without backlight)
 - complete kit with PC board for \$45
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- For more information, or to reserve your kit, contact J. Goldberg, KD6PBH, via internet: j@harper.com; voice: 619.990.9046

to complete my second term as President. I have tried to maintain a positive atmosphere while promoting building of Amateur Radio Equipment and increasing the use of our microwave bands. Harry, WA6YOO, our immediate Past President promoted DX-ing, his favorite activity in the Amateur Radio Service.

Over time The Presidents of PARC have presented a great diversity of activities by exposing our Membership to new projects and activities within the Amateur Radio Service. I was very fortunate to be President during our Sixtieth Anniversary last February. I was really humbled listening to the problems the Past Presidents faced and their unique solutions. I am proud to be one of those Presidents who have guided PARC through the past Sixty Years. I have agreed to serve for another year and after that it is time for someone else to chart the direction of PARC.

Sybil, W6GIC, declined to run as Vice President in a surprise announcement at the November General meeting. We now have two people running for the office of Vice President. Allen, N2DCA, nominated by Pat, KC6VVT, and Bill, KB6MCU, nominated by Sybil.

The rest of our current Board of Directors are running unopposed. Nominations were closed at the November General Meeting. The nominees will stand for election by the General Membership present at the December General Meeting. The new Board of Directors will assume their duties for the year 1997 at the close of the December Gen-

eral Meeting.

Frank, **KE6WOE**, set a new standard of excellence for Emergency Communications during the Harmony Grove Fire in late October. It was a pleasure for me to hear the professionalism Frank displayed as NCS for ARES. Frank remained on the air for almost all of the Emergency.

Paul, **N6ISC**, spent a day and two nights at the San Marcos High School Evacuation Center. Larry, **WA6UTQ**, manned the EOC Station at the Carlsbad Safety Center during the Fire. Congratulations to Frank, Paul, Larry, and the forty plus PARC Members that helped with Disaster Communications during the fire.

Frank, **KE6WOE**, also organized the PARC booth at The ARRL Radio Roundup at Missile Park. Helping Frank were Ted, **W4OTP**, Chris, **KF6ELO**, Ted, **KF6BFI**, Barbara, **KA6FPS**, Gail, **KM6WF**, Larry, **KC6RED**, Ken, **N6ALA**, and yours truly.

Frank brought out five antennas, transceivers for 6, 2, 1.25 meters and 70 CM for both voice and packet. Frank's station ran off of two deep cycle batteries charged by a 9.5 Amp array of solar cells.

Ken brought out his 3.3 and 10 GHz ATV equipment and I brought my 10 GHz transverter. I had several QSO's with Ed, **W6OYJ**, and John, **WB6BKR**, through the new **N6IZW** repeater.

Frank and crew signed up several New Members, sold several hats, and signed up several ARES members. Ken and I enjoyed displaying our equipment and giving several Amateurs their first QSO on 10,368.130 Mhz USB.

Special thanks to RACES for 120 Volt power to run Ken's and my equipment.

Amateur Radio has brought many Amateur Radio Operators together to share their knowledge and encourage each other to reach new levels of achievement. Vince, **W7LHC**, now a Silent Key learned the watch making trade at an early age. He used this skill to support himself through college earn-

ing his degree in Engineering. I met Vince several years ago. At the time I had convinced myself that it was becoming very difficult to work on the new surface mount electronics that is popular now. I now needed bifocals to see what I could have seen with out glasses several years before. Vince showed me some machine screws that he had just made on his lathe. The remarkable thing about these screws is that they were smaller than a wire clipping from a transistor lead.

Now here is a fellow Amateur who is over Seventy Years Old making parts that requires a 10X magnifier to see! It became clear to me that surface mount parts are very big by comparison. Vince was the inspiration I needed to try a new technology.

As we get older it is easy to excuse ourselves from learning new things and this is where the friendship of Amateur Radio, that spans many generations, drives us all to new levels of achievement. I will always be in debt to Vince for showing me how to relearn a lesson that I had forgot.

My Statement: "Before it is over, this electronics will make watchmakers out of all of us!" is a reminder to that time in my life when I needed a push forward and received it.

Bob, **KA6NZL**, did a factory job in modifying a Motorola Micor Repeater for the 147.130. The new controller, and autopatch interface plug into the card cage in place of the original Motorola cards and he did this in a way that the original cards will still work in the repeater.

Bob, Stan, **W9FQN**, Joe, **KE4ZJH**, and I went to our repeater site on October 26th and installed the new 147.130 repeater. Bob plugged it in and it has been working flawlessly ever since. Joe took pictures and a Video tape of the PARC Site with Stan narrating.

Joe did an excellent job and the Site was dressed up in formal attire for winter with about 2 inches of freshly fallen snow. The new repeater is now able to operate on emergency power along with the rest of our voice repeaters and autopatch system. Stan

worked on the Autopatch system and a good time was had by all. Thank-You Bob, Joe and Stan.

You will note that all of the courtesy beep/CW ID are a different pitch on the new controllers. This allows us to scan and tell which repeater we are listening to with out looking at the scanner.

Once you get used to the different pitches (146.730 is the lowest, 147.130 the highest) you can answer a call on the correct repeater without looking at your radio. I hope this will encourage our members to scan and use all three 2 Meter voice repeaters. 73, and Happy Holidays Art, **KC6UQH**

Do your ARRL membership thru PARC who then gets to keep part of the money! See Jo-**KB6NMK** at meetings.

Computer Dust

New computers sold within six months are generally worth 50% of their original price. A \$3,000 computer bought six years ago is worth about \$100 now.

The American Computer Exchange matches buyers and sellers taking a 10-15% commission. Call AmCoEx at (800) 786-0717 or visit -

<http://www.crl.com/~amcoex>

They will also compute your tax deductible charitable donation.

Try the following for more information from other organizations-

ProductDonations@GiftsInKind.org.

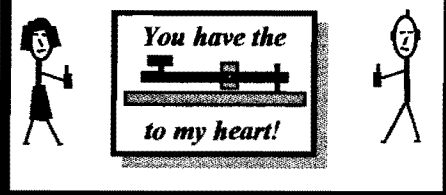
<http://www.wco.com/%7Edale/list.html>

<http://www.nt.thegroup.net/detwiler/>

or E-mail diana@detwiler.org (La Jolla)

Of course, you might check with PARC before doing anything to see what the club's needs are.

Him: "...your place or mine?"
She: "...mine, and here's my key!"





For Sail

W6NWC@amsat.org

Phone or send ads to your editor before the 20th of each month. Copy your ads after the form used here in. Personal equipment ads are free to members such as listed below and might be "bumped" after 4 mo. for newer ads:

NEW ADS.

(10-26) 6ea Zenith laptops 286 disk \$100ea, portable for pkt/RTTY, need 12vdc or 16.5vdc@2a wall plug: Larry W7HKI 439-5855 Ocsd.

(10-03) PK232MBX \$150; Hickok Tube Tester \$75; Astron 12v 6a Pwr Sup \$30; Ham Keyer \$40; 2 low pass filters \$20ea; Fax Modem \$100; Leica 35mm, 50mm, 135mm lenses (Antique) \$200; Larsen 2m-70cm mag

Ads sent to our club box 73 in Vista can only be given to your editor twice a month so send them to 30311 Cir. R Ln, Vly Ctr, CA 92082 before 20th of month or W9FQN@amsat.org.

mount ant \$30; 5/8th 2m ant \$10: Gordon W6MYV 967-7847 Ocsd.

(9-16) HO Scale Train layout-64sq ft. Still set up to see. Asking \$550. Will trade for electronic equipment and will help take down and move at no extra cost. Mark, KC6CZO, 739-1533, hisword@ix.netcom.com.

Please let me know if you buy or sell so I can take out the ad -Ed.)

(8-22)Triax H354 heavy duty tower, make offer: Ted W6WXS 818-363-6633 Granada Hills, SFVly.

(7-17)VCR, Sanyo late model with Beta II & III 6hr modes, 30 extra tapes, Timer record & remote control \$75.00 OBO: Larry W7HKI 439-5855 Ocsd.

(7-16)AOR AR-1000 (HT type) scanning monitor 8MHz-1.36GHz + cell, 1000 channels \$250: Bill KD6BFR 480-6805 Escondido.

(6-1)ICOM FT-51R 2m/440 dual band HT w/remote hand mic. \$400: Chuck KE6TXQ Pager 1-800-804-9168 Carlsbad.

Commercial Ads in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought. Ads billed Feb., May, Aug., & Nov.



(04-24)Yaesu FT-5100 2m/440 xcvr like new w/decode & mobile quick release bracket \$550: Dinh KE6KDP 941-1529.

WANTED: A few good men/women (10-25) Need 16.5vdc @2A power supplies for Zenith Laptop computer(s), also 12vdc @2A: Larry W7HKI 439-5855 Ocsd.

(9-26) stepdown/up transformer 220v to 110vac for microscope at 400-500 watts: Nash W6HCD 940-1028 Fallbrook.

(8-3) need information of the modification of a communications monitor, CE-3, for "opening" up the 70cm band: Mike AB6QT 742-1573 PMt.

(7-18)Still looking for Kenwood TH-28A HT manual ..lost phone # of previous contact: Pat KC5NJU 746-1644 Escondido.

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PARC Identification(s)

Caps, \$5.00; Old badges (circular ones), \$1.00; and New Badges (blue rectangles), \$7.00 (this will be mailed to your home).

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PARC VE Program

Rusty Massie, AA6OM 747-5872

1249 Nordahl Rd., Escondido, CA 92026

SANDARC VE testing locations are now charging \$3/session. You must have exact change! PARC testing is the 2nd Saturday of each month at the Carlsbad Safety Center in Carlsbad at 9:30am. Contact me seven days before the exam date so that I can have the proper test(s) available for you. Passed elements are noted ().

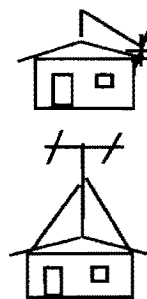
Aug.10 - John Greenstone (2, 3A); John Melville (2, 3A); KE6EUE (3B); KD6YF (4B); KD6YF (4B); K6ZST (4A); KE6YAK (3B).

Sept.14 - KC6YOX (3B); KF6AVG (3B).

Oct.28 - KD6HYS (3B, 1A, Tech+); KE6BSV (3B); KF6EWV (3B); KE6LBY (3B).

Nov.9 - Jack Dea (2, 3A, Tech); Dick Hobson (2, 3A, Tech); KF6GXF (3B, 4A, 4B); KF6ELN (3B); Alan Swinney (2, 3A, 1A, Tech+).

+ + + + +



Antenna

Specialties

If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!

Radio systems installation, repair and removal, and interference resolution.

Edward Ross, N6GZI
(619)542-1405

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Box 462222, Escondido, CA 92046
619-747-3343, 75353.2175@compuserv.com

TOROID CORES

Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request.

Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. Model RFI-3 \$18 + tax + \$6 to ship.

RF CURRENT METER

Measure the current in your radials, see which ones work and which ones are broken. Check for current on the coax shield, etc. Useful from 1ma to 5amp 1-30 MHz.

Model PCM-1 Clamp-on Current Meter \$125 + tax + 6 S&H.

R-X NOISE BRIDGE

Learn truth about your antenna, & resonant frequency. Adjust it to your operating frequency quickly and easily.

Price \$79.95 + tax + \$6 S&H.

TUNER-TUNER

Tune your tuner without transmitting. Save that rig! Just listen to the Tuner-Tuner's noise with your receiver. Adjust your tuner for a null and presto! You have a 1:1 SWR.

Model PT-340 \$99.95 + tax + \$6 S&H

Please check our complete ads in QST, 73, CQ, and World Radio magazines.

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| | |
|---------------------------------------|---------|
| '97 Callbooks (ret.\$39.95) | \$29.95 |
| '97 Callbook CDROM | 39.95 |
| QRZ! Ham Radio CDROM (vol.8) | 17.95 |
| '97 ARRL Handbook (ret. \$38) | 36.95 |
| '96 ARRL Handbook (ret. \$38) | 26.95 |
| '96 Callbook (N.A. or Int.) | 17.95 |
| '96 Callbook CDROM (Summer '96) .. | 23.95 |
| NEW: Satellite Anthology (ARRL) | 10.95 |
| NEW: QRP Power (ARRL) | 10.95 |

(above available at the December meeting)

Call Duane AA6EE 789-3674

Ham Count

A quick check of the northern SDCo town areas yielded the following number of hams living in each area - -

Escondido(494),
Oceanside(349),
Vista(314),
Poway(251), La
Jolla(218), Carls-
bad(212), San Marcos(137), Fall-
brook(170), Encinitas(131), Valley
Center(53), Cardiff(44), Rancho Sante
Fe(42), & Bonsall(6).

+ + + + +

Palomar Mountain ??

Mike & Barbara Doyle (history)
AB6QT/KD6ECD (AB6QT@amsat.org)

For many years we have heard the mountain called several different names. Some people call it Palomar Mountain, others call it Mt. Palomar. Sometimes it's referred to as Palomar. Which is the correct name? There seemed to be a mystery here. We decided to try and solve it. After discovering some interesting facts, we thought we'd share it with everyone.

Joseph Smith was the first white man to settle on the mountain. he was born in M. Carolina in 1820 and came to Old Town in the early 1850's. Standing 6' 4" tall, the Indians called him "Jose Largo", "long Joe Smith". Moving to the mountain in 1842, Joseph Smith was known as a good business man, fine mechanic and was handy with tools.

He built his home on the north side of the mountain, now known as Dyche Valley. In 1868, on one of his trips to the store (down at the Warner Ranch) for supplies, he met a homeless ...young man. He befriended this young man and brought him home. Several months later, this young man murdered Joseph Smith in search of Smith's money. It was a well stated rumor that Smith had \$500.00 hidden somewhere in his milk house.

Upon the news of his death, approximately seventy-five men collected and formed a vigilante court and held a trial. The young man made a full confession and was condemned to death. About twenty-five men (including Nate Harri-

son and George Dyche) got together to pull the rope for the hanging.

For over forty years, the mountain was known as "Smith Mountain". Smith having no heirs, his property re-

verted to the Public Administrator, and was eventually sold to George Dyche, hence, the area became known as Dyche Valley.

Previous to the Name "Smith Mountain", the area was known by the San Luiseno Indians as PA' OUW, which translates to mean, "the mountain". The original Spanish name for the mountain was "Palomar", meaning "dovecote", which according to the American Heritage Dictionary of the English Language means "a roost for domesticated pigeons".

Looking through some old Palomar Observatory files, it states that on December 4, 1901, the division of Geographic Names in Washington, D.C. (in response to a petition from local citizens for a change in name of Smith Mountain) had officially adopted the name of Palomar, the old Spanish name, as mentioned above.

According to the U.S. Dept. of Agriculture Forest Survey map (Cleveland Nat'l Forest), the town at the junction of S6 and S7 is called Palomar Mountain. This map also names the entire area as Palomar Mountain. This was also the same with the Boucher Hill Quadrangle Topographic map, put out by the U.S. Dept. of the Interior.

Still, there are several reputable periodicals, encyclopedias and Astronomy textbooks that refer to the area as Mt. Palomar. We do know that the true name for the observatory is the Palomar Mountain Observatory, not Mt. Palomar Observatory. We also know that the long-time residents get deeply offended when they hear the mountain being called "Mt. Palomar".

Given the information that we have collected here, it is our opinion that the true name is *Palomar Mountain*.

+ + + + +

OSCAR RIVERA

Oscar Rivera Hernandez, former head of the Tijuana SCT office (similar to an FCC field office), has retired from public service and is now working in the private sector. Oscar has served as Zone Coordinator for the past 10 years in the Mixed Commission and has been instrumental in resolving cross-border radio interference problems.

This distinguished gentleman is now working for a company that plans to bring PCS communications to all of Baja California, and we wish him every success in this exciting new venture.

+ + + + +

PARC TOP 20

PARC's Top 20 DXCC

11/24/96

W6NWG@amsat.org

DXCC worked(confirmed), states(wrk-conf)

1. WA6YOO 324-324-50-50 Mixed
2. WA6YOO 319-319-50-50 Phone
3. AC6V 316-307-50-50 Mix 8w
4. AC6V 311-303-50-50 Phone
5. WA6YOO 274-270-??-?? CW
6. WA6YHB 209-201-50-50 CW
7. WB6NBU 205-180-50-50
8. AA6EE 200-196-50-50
9. WB6NBU 160-118-?-? Isoloop
10. AC6V 152-149-50-50 CW
11. KI6JM 193-136-??-??
12. WA6YOO 162-162-??-?? RTTY
13. N6SMW 150-109-??-?? Mixed
14. N6ELP 138-105-??-?? RTTY
15. KC6QXU 095-086-50-50 10m
16. W6EYP 037-013-50-2410-20m
17. AA6TR 001-???-??-?? 100mw
20. urcall? _ _ _ _ _

Please send in your updated WORKED-CONFIRMED & STATES info to UR Editor. Pse break down by Ph/CW/Mixed if possible.

WA6YOO also holds 5 Band DXCC, Certificate Number 3,767 with 17 Meter endorsement. The ARRL DXCC Honor Roll Plaque now hangs on Harry's wall!

WORKED ALL CALIFORNIA COUNTIES

1. WA6HYB 58-58 QRO
2. WA6HYB 58-58 QRP 1watt
10. _ _ _ _ _ urcall?

W.A.C.C. rules and information can be obtained from K.O. Anderson, K6PU, POBox 853, Pine Grove, CA 95665 or contact Dan-WA6HYB. Dan



suggested that with the sunspot numbers dropping that this might be an award that some of our members might want to work towards. It also is a good way to see where towns and counties are located in our great state of California.

WA6HLB WAC 1 watt
WA6HLB WAC 5 watts

WA6HLB's QRP contacts were made with a xcvr kit, rock bound on 29.95!

+ + + + +

EXPERTS

Experts

(Loco and OtherWise)

(11-16-96) W6NWG@amsat.org

One of the advantages of a large club is that we have a great number of experts in many areas.

The following club members have considerable knowledge in the areas listed. If you have questions, please feel free to contact them through a club roster:

Accounting/bookkeeping SKM6WG

AMTOR/RTTY HF WA6YOO

Antennas KC6UQH WB9COY
KB6MCU N6GZI

Antennas BoatElect KC6UQH

ARES KE6WOE K7DCG WA6YOO
KC6YSO

ARRL WA6YOO ???

ATV KB6MCU KD6TLF KC6UQH
WB9COY N6ALA

Autopatches WB6FMT W9FQN

Aviation History AC6V

Badges, PARC W6OLQ KC6WAN
WA6YOO

Beams HF N6KI KB6MCU

Bicycling KQ6HE AA6TR

Bilingual Ed. KA6FPS

Boating Sailing W6QCA AA6TR
W6EYP

Cars(old) W6QCA AC6V

China WA6YOO N6TCB

Coast Guard Aux N6TEP

Computers C-64 WD6FWE

Computers IBM WB9RKN W6QCA
N6ZUC KD6AKT

Computers MAC AC6V KB6NMK

Computer TRS-80 Mod 3/4 W9FQN

Dancing AC6V KM6MW

DeskTopPub KE6JOJ KC6CZO
KB6NMK W9FQN

Direction Finding KB6NMK W9FQN
N6UWW

DXing CW KA5Q AA6TR WA6YOO

DXing SSB WA6YOO KA5Q N6KI
AC6V

Earthquakes AC6OA W9FQN

EmergencyVolAirCorps KH6TL

Fishing SKE6EDC(KM6WF)

Fire Patrols(RedFlag) W6HCD

Flying Smaritans W6HCD

FM Deviation Cks WB6FMT AB6QT

KC6UQH KA6NZL AB6LY

German N6TEP KJ6ZD WB0YCQ

GPS ??

Graphics SKB6NMK

Grounding W9FQN

Heathkits WB6IQS

Hiking KE6ZLY N6NPN W6VR

Horses KF6QH

Interference N6GZI KB6MCU

Internet AC6V KC6WOE

Korea WA6YOO W9FQN N6IE

Lighting SAA6TR

Lightning W9FQN

Marine Electronics SKC6UQH

MARS WA6YOO KM6PN KO6BU

Membership PARC KC6WAN
W9FQN KB6NMK

Mexican License N6KI W9FQN
N6UWW WB6PKK

Mexican Road Races WB6PKK
N6UWW

Mexico Baja WB6PKK KM6WF
W6HCD

Mexico Mainland W9FQN
KA6FPS

Microwave N6IZW KC6UQH

Mobile noise Filters KI6RF
KC6UQH

Nets PARC W9FQN

Nets Traffic N6TEP W9FQN

Pacific Crest Trail KF6QH W9FQN

Packet BBS KJ6ZD

Packet KB5MU N6ZUC AC6V
KD6AKT (Tue 9pm Pkt Net .73)

Ping-pong W6OLQ W9FQN KA6FPS

Planes Gliders KC6YOX

Planes History AC6V

Planes Model WB6FMT N6UWW

Repeaters AB6QT WB6IQS
KC6UQH KA6NZL WB6MCU

KC6YOX

Tennis KC6MQC NU6L KA6FPS

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Towers W9FQN N6KI N6GZI

VE Testing AA6OM WA6YOO

WWW pages KE6WOE AC6V

(\$ = they sell their services)

If anyone would like to be added or deleted from this list or if you have suggestions of others that might be added, please contact your editor.

+ + + + +

This and That

Harry Hodges, WA6YOO, has completed the **Honor Roll** requirements and has the plaque on the wall. To the non-Dxer, it may seem routine, but typically it can take 2 sunspot cycles to complete, and very difficult to achieve in one cycle. (de AC6V)

Please visit my very first attempt at a **home page**. The URL is:
<http://www.users.cts.com/sd/g/golson/>
(Gayle Olson, KM6WF :-)

A report on **Lorraine's (AC6XK)** recent injury..... The trails are a slick sheet of ice and I slipped coming down Wellman's trail. I fell and smashed my finger. I was sure it was broken but it is just badly sprained. I'm wearing this stiff splint which makes it very hard to type!! It is still swollen and very purple! I'm thankful that it is my left and not my right!!

Well, it will be good for pointing at misbehaving children at school. (Lorraine can now hit 146.730 with her new beam from Hemet CA.-Ed)

SATISFIED CUSTOMER REPORT: Just picked up a tiny HT for 440 Mhz. It's a little bigger than a pack of cigarettes, runs forever on three AA



batteries, has one output power level (340 mW), an attached "swivel up" antenna, 20 memory channels, built-in PL encode and good audio on send and receive. A VERY simple, clean radio. Model: **Alinco DJ-S41**, List Price: \$139, Available at HRO. (de W6VR)

Radar interference to the 950 Mhz aural STL band SHOULD now be a thing of the past due to military hardware changes. (Thanks, Jack Daniels, U.S. Navy.)

Volunteers are needed in the San Diego area to help install **internet computers** at schools. Includes running telephone wires and doing all the things necessary to get kids on line.

This worthwhile project is being coordinated by Mr. Hiep (pronounced "Hep") Le, an engineer with the San Diego FCC Field Office. Hiep would like to receive calls at his pager: (619) 904-0579. If you are a ham radio operator, get on the air and spread the word. (unknown)

Some **vanity call sign** holders have become interested in the **genealogy** of their new call signs and want to know who the former holders were. ARRL headquarters does not have the resources to track down this information, but those interested might try the FCC's official duplicating contractor, International Transcription Service (ITS). Among other things, ITS can **research amateur call signs** to determine when they were first issued and to whom. The cost of this service varies depending on the volume and research time involved. Research time is \$15 per hour, billed in quarter-hour increments. Requests can take up to one business week. Additional charges apply for expedited service. ITS is located in the FCC's Gettysburg Office.

Write ITS Inc., 1270 Fairfield Rd, Suite 24, Gettysburg, PA 17325-7245; tel 717-337-1433; fax 717-337-3409.

(Tom Hogerty, KC1J)

A quick check of the northern SDCo town areas yielded the following number of hams living in each area -

Escondido(494), **Oceanside(349)**, **Vista(314)**, **Poway(251)**, **La Jolla(218)**,

Carlsbad(212), **San Marcos(137)**, **Fallbrook(170)**, **Encinitas(131)**, **Valley Center(53)**, **Cardiff(44)**, **Rancho Santa Fe(42)**, & **Bonsall(6)**.

AC6V DX Reference Page at:
<http://www.netcom.com/~ac6v/index.html> (de AC6V)

Contests Update

| | |
|--------------------|------------|
| ARRL 160m | Dec. 6-8 |
| ARRL 10m | Dec. 14-15 |
| Midwinter CW | Jan. 11th |
| No.Amer. QSO CW | Jan. 11-12 |
| ARRL VHF Sweep S. | Jan. 18-20 |
| YL-OM Phone | Feb.8-10 |
| N.Amer. CW Sprint | Feb.9th |
| ARRL Inter.DX CW | Feb. 15-16 |
| CQ 160m phone..... | Feb. 21-23 |
| YL-OM | Feb. 22-24 |
| RSGB 7 Mhz CW | Feb. 22-23 |

Those wishing to use the club trailer and equipment should get their reservations in early for these events.

Descriptions of these events can be obtained from QST and CW magazines at HRO or contact Harry-WA6YOO for additional information.

New Calls

Your editor would like to have a list of the new vanity call changes for publication in the December SCOPE so please also get the changes to me: 8pm evening traffic net, W9FQN@ PALBBS, W9FQN@amsat.org, or at 749-0276.

Club members with call changes should also get them into our Membership chairman, Ralph-KC6WAN, if you have not already done so. Those sent to W9FQN will be forwarded to Ralph.

Bubble Jet Ink

Stan Rohrer W9FQN@amsat.org

Ink cartridges for most bubble jet printers cost an arm and a leg. One solution (pun) to the problem is to drill a hole in the top of the used cartridge and fill it with premium InkJet ink. In my case (Cannon BJC-610) I can fill the cartridge while it still is in the printer.

Try MEI/Micro at 1-800-634-3478

and PC Zone 1-800-258-2088.

I get 6 refills of a BC-02 cartridge for \$11 which normally would cost over \$120 for 6 new cartridges.

73 Magazine

The December 96 issue of 73 magazine has some great articles: APRS uses and great ideas; 80m local antenna; 6m antenna; circulators and their operation; information highway; audio filter alignment generator; art of sending CW; CW enhancer; 2m to 6m transverter kit for \$100; and HF radio universal interface kit \$30.

Fire Remembered

Stan Rohrer W9FQN@amsat.org

Your editor came to California in September of 1970 when a fire swept over 100's of acres to the east of our present house (PARC FD Site) finally over running our property and the FD site to the west of the house (no 10 million gallon tank then).

Barbara, KA6FPS, left with the non-replaceables (Collins KWM-2 transceiver, etc) and I stayed with a hippy fire crew and a 6.5' fire fighter giant from Yucipa. We laid on our stomachs to the east of the house with two fire hoses and my garden hose while we watched the fire break up into two fingers across an old fire trail which passed through our house site. Back fires failed to ignite the brush.

Burning embers pelted us from from several hundred yards away like tracer bullets fired from a gun as the flames raced towards us. My 26" sailboat caught fire. We could look up at a 45% angle and see the flames right in front of us and the fire hoses only had 60 seconds of water!

The first wave passed to the north of the house about 30' away and seconds later it hit us again passing to the south of the house. We were all flat on our bellies and at the last second the chief said NOW and a spray went up ...the fire passed us so quickly that we were not sure what had happened. But we were still there and so was the house.



Technical and Operational Things: Repeaters, Autopatches, News, etc.

Autopatch wording

Stan Rohrer W9FQN@amsat.org

Autopatch users are reminded that you are to give your FCC callsign **twice** during the autopatch.

The first time is immediately AFTER you issue the 3-digit access code. The second time is immediately before you issue the "#" sign.

HOW YOU SAY / DO IT

1. **Push** the PTT button, dial 3-digit code.
2. **Say**, "URCALL ACCESS PATCH."
3. **Release** the PTT, hear the dial tone.
4. **Push** PTT, dial UR 7-digit phone number.
5. **Release** PTT, hear the phone ring.
6. Hold your short conversation (<60sec).
7. **Press** PTT and say "URCALL CLEAR PATCH, then press "#."

If mobile, say "URCALL MOBILE."
URCALL = your own FCC call letters.

If you do not give your callsign at the proper locations during the autopatch, it is assumed by a control operator that you are not a club member which could result in the autopatch being terminated or future access denied.

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Project Update

Palomar ARC W6NWG@amsat.org

The following is a status report on major to semi-major club projects:

52.680 - crystals authorized for replacement emergency repeater which still needs to be located.

146.730 - new repeater installed, old one being refurbished.

147.130 - new repeater installed in October. The old one will be refurbished and crystalized up so that it will work on 147.075 and 147.130.

449.425 - parts being collected for construction of new repeater.

Alarm System - phase two needs to be completed.

ARESDATA - have the packet program, computer, and transceiver. We need to put it together.

Auto Dialing - electronics constructed but not mated together. Program needs to be written allowing automatic selection of the proper phone prefix.

Battery Setup - the 24 new cells awaiting a building/shed at the repeater site. New chargers being prepared for use at the site.

Communications Trailer - front table needs to be finished, small table/shelf constructed, and carpet on the floor. Then the two HF ICOM 735's installed with the VHF transceivers. The trailer would be available for weekend use near the FD site.

Earthquake Detector - basic electronics completed but problems with the interface between the unit and the

146.730 repeater.

Lightning Protection - ground-lighting system almost completed and starting on the AC protectors.

Mac's Shack (camper) - VHF/UHF transceivers installed, packet installed, antennas installed, and small wood working projects completed.

New Building - investigation continues since a new building cost of \$20-30k is high and is not fire proof. Investigating metal buildings and underground vaults.

147.075+ Base stations discussions and rag-chewing

Packet Repeater Site Monitor - unit constructed but not mated with a computer system.

Packet Node - chips obtained, being programmed with installation after the new year in 145.050.

Packet - replacement system for 145.05 or 146.73 started. Crystals, receiver, and transmitter

147.13+ Mobiles and autopatch

449.425 Autopatches and rag-chewing

Repeaters Use as you see fit. These are only recommendations.

Repeaters use them or loose them!

obtained. Now collecting TNC's. **PALBBS** - looking for another packet system operator in the N.Co. area. **Repeater Site Video** - Video camera project being looked at and parts collected to survey the repeater site when alarm is sounded and for winter tower inspection..

Proposed projects.

Computer ID of Interference - construction of \$60 unit to get "finger prints" of offending transmitters.

Remote HF Station - a system has been offered completely set up to the club but we need to have someone or group to put together an antenna system and work out a few procedural problems.

Voice announcements - PARC net announcements played automatically when needed by net controls.

Weather collection - collection of wind, rain, humidity, and temperature values.

If you can help with any of these projects, please contact a board member and volunteer. Suggestions of other projects are welcome.

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Autopatch Update

Jerry Houser
WB6FMT@amsat.org

The patches appear to be working satisfactorily at present. On the next trip to the mountain we will be adjusting all levels so that each repeater sees the same audio levels on transmit and on receive.

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Work Parties

Stan Rohrer W9FQN@amsat.org

There will be no more scheduled work parties at the repeater site until next Spring except for emergency visits.

(10-26) A quick Saturday morning trip was made to the repeater site only to find that there was snow on the ground. Art-KC6UQH and Joe, KE4ZJH, who brought up the rear of the motorcade, had to suffer several snowballs being fired by Bob-KA6NZL and Stan-W9FQN as they arrived.



Joe took video of the site for a future video production, and Art and Bob replaced the old **KA6UA** 2m repeater on 147.130 with the new repeater built by Bob. The change was successfully completed and the new repeater was tied into the 12vdc emergency battery system which leaves only the 147.075 repeater going off the air when we loose AC power.

Stan narrated the video for xxxx as they "cruised" the entire site and Stan also replaced the central autopatch board which had failed earlier in the week. Jerry-**WB6FMT** diagnosed the problem from Vista and provided a replacement board for substitution. All indications are that the "fix" is working.

(10-22) On Tuesday morning a workparty met at **KI6JM's** (SK) QTH and removed all antennas: 2m beam, 3-band HF beam, and 2m J-pole along with all of the radio equipment which was donated to the club by Jack before he died.

(11-??-96) a cold day on the mountain with snow on the ground. Bob-**KA6NZL**, Art-**KC6UQH**, and Stan-**W9FQN** took the new 147.130 repeater which Bob had finished building to the site to replace the old 147.130 repeater put together by Eric-**KA6UAI** and John-**WA6JZC**.

(11-17-96) what started out as a cool day ended up as another great day on the mountain. A far cry from Bob and Stan throwing snowballs at Art's truck as he entered the site several weeks earlier.

Dennis-**KE6MQC** and Mike-**KF6FSY** checked the tension in the nine guy cables for the last time and then helped with painting. Mike also brought up a box of "goodies" for the club to use at the site: weed killer, contact cleaner, paint, tape measures, etc.

David-**KC6YSO** and Ted-**KF6BFI** checked the specific gravity of the 14 cells in our battery system along with the voltage of each cell. Everything seemed normal and they also ended up painting. David also found out that the new 6m repeater draws 0.6amp on receive and 4.3amp on transmit.

At last we have finished painting everything a battleship gray getting rid of

the hideous green walls. Stan-**W9FQN** spend most of his time painting and signing tasks.

Bob-**KA6NZL** and Art-**KC6UQH** worked on the 147.075 repeater receive system and replaced several modules and apparently have increased the sensitivity of the 075 repeater greatly.

Their next task was investigating the desense of the 146.700 packet repeater. Yes, it does have desense from itself and from the 146.730 repeater. This problem will have to be solved next spring although most people are finding the repeater quite satisfactory the way it is.

Glen-**KE6ZLY** visited us later in the day and helped our moral with a few choice stories.

Those attending work parties at the site are given two (2) participation points besides the opportunity to contribute to the repeater site with labor.

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Packet Net ? ? ? ?

We are still looking for net controls if we are to continue the net! Contact **W9FQN@PALBBS** or **@amsat.org**.

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Packet News

Ted Stork, **KD6AKT@PALBBS**

I will have my portable packet station at the December meeting for those interested in Packet. It will be set up in the **RACES/ARES** emergency room across from the meeting hall. If you have questions, please feel free to stop in for "free" advice.

The Tuesday evening Packet Voice Net at 9pm see you there!

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Have Modem? Will travel!

Stan Rohrer **W9FQN@amsat.org**

If you have a modem in your computer, then you can have free e-mail! **JUNO** is a new free -mail connection to the world.

They will send you a disk with the program and instructions. All you need is a computer, modem, and a telephone connection.

They are able to provide this free service because they attach advertisements when you connect to their sys-

tem but the advertisements are easily deleted and you are left with free e-mail.

Call 1-800-654-JUNO for your **FREE** disk copy of their program.

After you get the program up and running, send an e-mail to Paul, **KB5MU**, at the **amsat** organization and get your **FREE** amateur **amsat.org** alias address so that you can be like the big boys and have -

(yourcall)@amsat.org

To register for your **amsat.org** address, send an e-mail to -

listserv@amsat.org

In the body of the text include -

(youramateurlist) (your name)
(Present e-mail address) (JUNO?)

I would like to have -

(yourcall)@amsat.org

Thanks, Paul

Paul should have your alias up and running by the weekend ..if he isn't flooded by too many requests. Paul is a **PARC** member and quite active in the **AMSAT** organization. He does this during his free time. E-mail messages go to the giant computer in SD, the alias is stripped off, and your correct address is substituted. Everyone in your family can have their own callsign address which uses the same e-mail address!

Do not send "attachments" through your alias.

And that is all there is to it. Even if you don't have a **juno.com** address, every ham should register and pick up his/her **(yourcall)@amsat.org** since with so many addresses out there it is hard to remember them all.

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Gross Polluters

When you go in to get a smog check you are liable to get a shock. You ham mobile ham station must pass the new California smog rules which are designed to get old cars off the road.

No longer will you drive up to a smog shop and say, "how about a test today" and feel relaxed.

The smog machine is connected to Sacramento's giant computer which records whether you pass or fail. If you fail twice, you are labeled a **GROSS POLLUTER** even if you fail by a few

Signature _____ **Date** _____ (cut/duplicate)



PARC NETS (16/37)

All 146.730 8:00pm Traffic Net (SDCTN)

All 147.075 10-11pm MCW contacts

All 147.130 10+ pm King Henry's Net
(open to all facetious amateurs)

Sun. 146.730 8:30am AREmergency Service

Sun. 146.730 10:00am Sailor's Net

Sun 147.130 2:30pm YL / XYL Net

Sun. 147.075 8:45pm MARA Net

Sun. 146.730 9:00pm This Wk in SDCo.

Mo. 147.130 6:45pm EVAC (2nd/4th)

M-F 147.075 7:00pm Morse Code Net

Mo. 146.730 7:15pm RACES sub Net

Mo. 146.730 9:00pm Microwave Net

Tue. 146.730 9:00pm Voice Packet Net

We. 146.730 9:00pm (open)

Thu. 146.730 7:00pm Young People's Net

Thu. 146.730 9:00pm Ham Help Net

(electronics, computers, antennas, license theory, etc.)

Fri. 146.730 9:00pm Hiker's Net

Inside: NEWS WORTHY

2-AGOGO; Board; Trea\$; Swap;
Stores; 3-Election KB6MCU/N2DCA;
Pres. 4-Editor; Computer Dust 5-For
Sale; VE 6-Ham Count; Oscar Rivera;

Top 20; 7- Experts; This and That 8-
Contests; New Calls; Ink; 73; 9-Patch;
Projects; Work Parties 10- Packet; Mo-
dem; Juno; Polluters 11- Kenwood
FTP; 147.075 MCW

Membership Application Dues \$12

Amateur (circle)

Call Family \$21

Membership: New / Renewing (circle)

First

Name

Last

Name

Street

Address

City

State+Zip

Home

Phone

Date Ham

License Expires

License Class N T T+ G A E (circle)

Family Membership (name + call)

Sponsor's Call

(not required)

E-mail Adr: (12-96)

(if checked) LOOK AT ATTACHED AUTO-PATCH SHEET. NOT CALLING PROPERLY!

Oct. SCOPE helpers: Harry-WA6YOO,
Jo-KB6NMK, Ellen-N6UWW, Art &
Anita-KB6YHZ/YHY, Nash-W6HCD, &
Stan-W9FQN. Started at 12pm and ended
at 2pm. ...and were those low fat cookies
good!chocolate chip! Yum!

Mail the application (or copy) with your check
to PARC, P.O.Box 73, Vista, CA 92085-0073
or give to our membership chairman at
meetings. We prefer checks: you have a record.

Dues are \$12/yr. including \$3 for SCOPE (\$4
outside SDCo), or \$21/yr for a family all living
at the same address. Consider paying for 2-3yrs
at a time to reduce the work for the membership
chairman.

Name, call, and complete address are
required. Telephone number is required but may
be unlisted in roster if you prefer.

For notification of acceptance and an autopatch
information and code sheet, send a Self-
Addressed-Stamped-Envelope (SASE) with
your phone number on the inside flap with your
application or the receipt of the next newsletter
mailed the last week of each month will be your
only notification of membership..

**Meetings 1st Wednesday
of each month at 7:30pm.**

OPEN REPEATERS / CLOSED AUTOPATCHES, PALOMAR

Mt. REPEATERS (W6NWG)

PARC Trustee of W6NWG: AB6QT

*~~52.680~~- W6NWG, -0.5 MHz

Autopatches(4): ~~146.730~~-, *~~147.075~~+

*~~147.130~~+, *~~449.425~~-

PKT: ~~145.050~~s (PALMAR-1) Open

(linked to PARC 9600 METROLINK)

~~146.700~~-(Duplex Pkt) PALBBS/EMG use

~~145.050/146.7~~- (W6NWG/PALBBS)

ATV: ~~915~~ wbfm, ~~919~~AM, ~~2441.25~~ wbfm

Intercom: ~~144.390~~ PL 79.7 nbfm

OUT: ~~1241.25~~ MHz AM

OTHER: *~~224.38~~- & *~~224.94~~- KK6KD

*~~224.90~~- WD6HFD (220Club)

~~448.00~~- WB6FMT (123.0PL)

*~~146.175~~+ WA6IPD, Falbrk

* = PL of 107.2 Hz

<http://www.electriciti.com/parc>

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SDCo (out \$4).

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consider renewing for
several years.**