

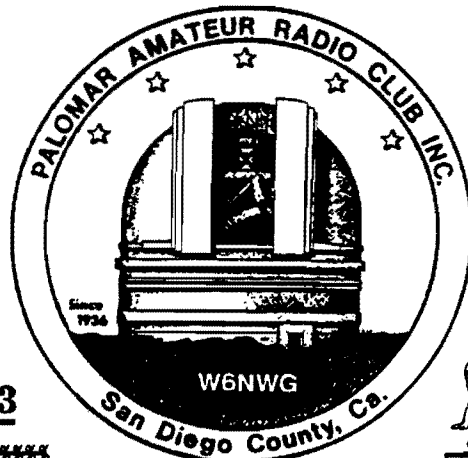
W6NWG W6NWG W6NWG W6NWG

Scope

W6NWG

Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073



JANUARY ***** 1994 ** 57 YEARS OLD

***** Volume XX, Number 01

***** Published every month by PARC

***** An ARRL Special Service Club

***** Membership \$12including \$3 for SCOPE

Coffee 7:00pm and Meeting at 7:30 pm

Carlsbad Safety Center(CSC), Palomar

Airport Rd. to North on Camino Real,

East on Farady .25 mi, left to CSB,

Thomas Bro. Pg.14F6.Talk-in 146.730.

*** E L M E R S *** (call for info)

CARDIFF, . Duane-WB6R, 753-4821

CHULA VISTA, Steve-N6RUV, 422-4415

ESCONDIDO *** Harry-WA6Y00, 743-4212

*** PALOMAR AMATEUR RC PRESIDENT

La MESA, . Roger-N6UW, 697-6025

LAKESIDE, . Mac-WB6XR, 561-2211

RAMONA, . Vern-AA6UU, 789-3070

SAN DIEGO, . Dennis-N6KI, 271-6079

SAN MARCOS ** Ralph-KC6WAN, 727-7415

*** PARC MEMBERSHIP CHAIRMAN

VISTA, . . . Jack-KI6JM, 598-0420

SAN MARCOS, Rusty-AA6OM, 747-5872

(Head PARC VE testing program)

Prospective amateurs ONLY can

call 1-800-32-NEW-HAM at the ARRL

Hdq. 8AM-5PM EST M-F for information

on amateur radio.

OPEN REPEATERS / CLOSED AUTOPATCHES

PARC FREQUENCIES USED:

145.050 Packet, W6NWG / "PALMAR" %

146.520s, ARRL National Simplex Freq

146.535s, Palomar Amateur RC Simplex

2m Simplex Emergency Portable Rpt.

146.175+, *PATCH, PL, Fallbrook, WA6IPD

146.700-, RTTY, PLed, IN = OUT %

146.730-, *PATCH-PLed, Palomar.Mt.%

147.075+, *PATCH, PL, Palomar Mt.%

147.130+, *PATCH, PL, Palomar Mt.%

224.900-, PL, Palomar Mt, 220 ClubSD

WD6HFR, Palomar Mt.

METROLINK, Packet link, 9600 baud %

446.000s, National Simplex Frequency

449.425-, *PATCH, PL, Palomar Mt. %

AUTOPATCH OUTLET CENTERS:WB6FMT-VSTA

WV6Z-MMSA;N6IZW-LMSA

* = PATCHES on Palomar Mt. Repeaters

Covering 2,000 sq. miles of SDCo

% = W6NWG, PARC, trustee Ron-WI6B

(107.2 Hz used for all PL's)

 *** NEWSLETTER HELPERS DEC.SCOPE ***
 KI6JM, Jack Hanthorn, Refreshments
 KC6WAN, Ralph Powell, printing, labels
 WA6Y00, Harry Hodges, Staples
 KB6YHY, Anita Nye, labels
 KB6YHZ, Art Nye, folding
 N6TCB, Jerry Carter, labels
 KI6JM, Jack Hanthorn, folding, Refresh.
 W6TFB, Lloyd Hunt, folding
 W9FQN, Stan Rohrer, Editor, PO Forms

 BOARD of D I R E C T O R S *****
 MEMBERS present:

President: Harry Hodges, WA6Y00
 VP-president: Art Mc Bride, KC6UQH
 Sec.:(appointed) Nash Williams, W6HCD
 Treasurer: Benton Caldwell, KK6LX
 (elect) Jennifer Thieme, KM6WG
 RTechnical: John Kuivinen, WB6IQS
 SCOPE/ETC: Stan Rohrer, W9FQN
 Membership: Ralph Powell, KC6WAN
 Control(packet): Tim Low, N6ZUC
 Board Member: Rick Zimmermann, KC6LV
 - also present -

Training/FD: Bill Smith, KB6MCU
 Constitution: Jack Hanthorn, KI6JM
 OTHERS: Sybil-W6GIC, Paul-KD6JXY
 (ATV)-> Mike-WA6SVT, Gene-WB6COY

Club members are invited to attend these meetings to observe the Board of Directors in action ..or non-action ..es (and) get an activity pt for attending! Harry's brownies were especially good this month and Jerry-N6TCB's cookies were fantastic.

DISCUSSED: EquipBal \$1543, GenFund \$4634, Prepaid \$2782; programs; Mac-WB6GXR's camper available in January; Chris Boyer-KC6UQG; Club badge; 58th year Feb recognition; membership 709; & ATV repeater at our site.

APPROVED: MFJ-1270B packet \$130; looking into Feb. cake; & Feb 9th general meeting.

Please contact one of the board members for more info. or see the secretary for written comments.

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

Attendance were 102 members, 11 guests, for a total attendance of

113. PLEASE COME EARLY and help set up chairs.

HARRY-WA6Y00, club president, showed slides of his recent trip of the far east visiting Korea, Hong Kong, Mainland China, and Hawaii. He was supervised during the trip by his wife, JERRY-N6TCB. Korea took care of all living expenses of all of the vetrans of the Korean war while the group was in Korea. If you are a Korean Vet, contact Harry for more information.

Elected to 1994 club positions were: HARRY-WA6Y00-Pres, ART-KC6UQH-VP, NASH-W6HCH-Secretary, JENNIFER-KM6WG-Treasurer with board members MIKE-AB60T and RICK-KC9LV.

SHOW & TELL featured a crossed antenna by BILL-KB6MCU and a filtered-MOV 2-plug to 6-plug adapter which can be bought from TARGET for about \$10.

DENNIS-N6KI forgot to show up with the DANCING girls but assures us that they will be at our February anniversary meeting to celebrate our 58th year of being a club ..one of the oldest biggest general purpose amateur radio clubs in the world.

ART-KB6YHZ and his charming wife, ANITA-KB6YHY, supervised the drink and goodie table with members bringing goodies: KE6BUB, KC9LV, KE6CDH, KD6YKX, K6TCB, WA6Y00, KE6BUE, KI6JM, N6ISC, KM6PY, W6HCH, KK6LX, W6GIC, WB6GXR, KE6BSV, and KB6YHY. Art and Anita have been editors of a neat flower newsletter published in Vista for the past several years.

The goodies were great and you were rewarded with "1" participation ticket each (not per cookie ..or twinkie)!

 - E D I T O R -

Stan-W9FQN 30311 Circle R Ln
 Valley Center, CA 92082-4806
 749-0276, 11:30am or 9:45pm

PARC has sponsored the San Diego County Traffic Net (SDCTN) for at least 20 years delivering amateur messages within SDCo and throughout the USA. More recently the net has

handled large amounts of traffic which has been re-filed from the Military Amateur Radio System (MARS) to the Amateur traffic distribution system.

During most of this period, SDCTN has had a more or less low constant flow of messages except for during emergencies when nets last for hours rather than the usual 15-20 minutes. Samalia and the Gulf War really tested SDCTN with the large flow of military traffic from soldiers to their loved ones in the SDCo area and even to the north of us.

Our SDCTN does have some problems. Since the traffic during the past 2-3 years has fluctuated so greatly, we have found that the number of traffic members does not always fit the need. When we have little traffic, net members tend to drop out because there is never traffic for their area. Then when traffic picks up, we don't have enough operators to cover all of SDCo. and it takes quite a while to build the net back up to handle the traffic ..which then drops off again.

Several years ago SDCTN's main repeater for passing traffic in and out of SDCo was the 147.645 repeater on the Laguna Hills. The 147.645 operators terminated the agreement with SCNV and since then SCNV has jumped from LA repeater to LA repeater with the SDCo NTS members sometimes unable to reach the new LA repeaters. This isolates us from NTS traffic in and out of SDCo and reduces the traffic within SDCTN. Then Packet entered the picture which diverted messages from SDCTN with its automatic relay from area to area but packet bulletin boards are not always checked so messages were lost, delayed, duplicated, or never delivered where voice traffic had a better track record ..even if it is more painful. (Cont.Pg.10)

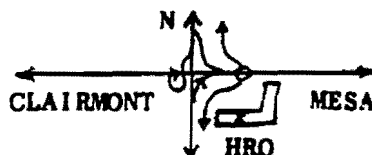
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***** M E M B E R S H I P *****

***** KC6WAN
de Ralph, Vista 727-7415

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet should send W9FQN a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same (see Editor's address).

ASSOCIATE members who have received their new calls should report them to me along with their expiration dates ASAP so that our records can be updated.

A check of recent NEW HAMS in the SD Co. area indicates the oldest was 62, the youngest 14, with an average age of 36. The average age of those joining ARRL was 52. (Reasons for difference? -Ed)

The club is selling PARC blue hats with the PARC logo on it for \$5 and we are selling the commemorative 5c cent stamp pins for \$5. See me at meetings. Sorry, but we are out of

the PARC blue shirts. If there is enough interest, we will make up another order. =SK=

Membership is 707+.

NEW/RENEWED:

3yrs= W6PQ0-Steve

2yrs= KD6GNA-Gerald,

1yr= KA3ZYN-Carlos, KA3ZYP-Don, KC6YYT-Bob, KE6AFG-Charles, KE6ARQ-Kent, KE6ASP-Everett, KE6DFB-Glen, KG6T-Tom, KD4UFD-Tom, WB6HSZ-John, N6DWF-Charles, WB6ZJZ-Charlie, N6SAN-Eugene, KB6UCF-Ed, KE6DFD-V.L., KE6CSB-Heinrich, KA7MEM-Morris, KC6ZEC-Tuck, KD6YDJ-Lyle, KE6DFA-Isabel,

CHANGES: KD6UXW is KD6JXW; KN67RG is KN6RG; KE6SE to 6032 Sunnyside, Glendale, AZ 85304; W6HCD to 32001 Via Ararat Dr., Bonsall CA 92003; N6FYK to 2000 S. Melrose Dr. #80, Vista CA 92083; etc.

***** Thanks to: *****

TIM-N6ZUC for the donation of a printer to the Escondido RACES

program. =TNX=

LARRY-W6HKI for the donation of \$7.80. Larry gives the club 10% of whatever PARC hams buy from him at the 2nd Sat. Swap Meet. Recent sales were to FISHING HAMS TED-KC6MWR, BILL-KN6AB, TOM-KD6ABC, and DAN-WB6Y00. =TNX=

ROGER-KD6EFQ for the 22 beautiful color photographs of PARC's winning 1993 (1st 5A) Field Day operation. These will be added to the club's Hysterical Field Day File (HFDF). =TNX=

To someone who gave ur editor a copy of the GOOD NEIGHBOR (FRANK-WB6HFE) article from one of the local papers. The clipping will be put in the club files. =TNX=

MILT-W6MK for more copies of the W5YI report ..10 pages of up to the minute news from the world of amateur radio, personal computing and emerging electronics published twice monthly at \$24.50/yr (W5YI Group, 2000 E. Randol Mill Rd. #608A, Arlington, TX 76011) =TNX=

MARK-N6NNI for getting KE6DFB
to sign up with PARC. =TNX=

***** N E T S *****

--146.7 RTTY Net, Sunday 2030 %%%
(Daily QSO 2030-2130 N6TEP*)

--146.73 NIGHTLY *****
MDN. 1915 RACES North Co. Sub-Net
2000 San Diego County Traffic Net
(except 1st Wed. club Mtg
Net managers: N6RV0*, N6TJT*

Mo-WAIZEN, Tu-N6RV0, We-N6WVP, Th-W6EYP
F-KC6ZEC, Sa-KE6VX, Su-N6TEP
MON. 2100 S.D. Microwave, N6IZW*
TUE. 2100 S.D. Packet Voice, KB5MU*
WED. 2100 Spanish, KA6FPS*, W6HCD*,
W9FQN (2nd and 4th Wednesday)

THU. 2100 Computer Help Net, N6ALA*
KD6JXY, KC6ZRW, W6QCA, WB9COY, KC6YOX
ARES 0830 Emerg. Serv. *W9FQN, KB6NMK
W6HCD, N6NZX, KB6NZA, W6HFE, N6QQF
WA6UTQ, N6QJE, W6JSP, N6WEG, N6WEF
SUN. 1000 SUN. SAILERS, W6QCA*, AA6TR
2100 THIS WEEK IN SDCo., W9FQN*
KD6JXY

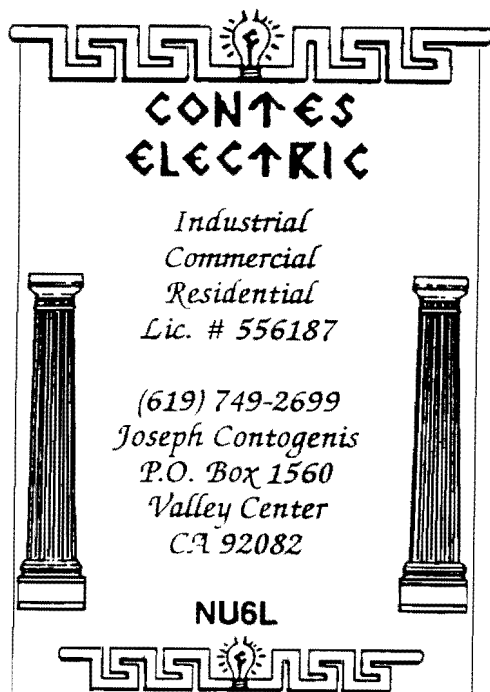
--147.075 NIGHTLY Mo->Fr *****
1900 Code, 20-5wpm, AB6LY*, N6ZUC
WA6Y00, W9FQN, KC6QHU
2015 TUE MARA EMERG SERV. KE6VX*, WV6Z
2000 Wed License Theory, AB6LY*, AB6QT
KC6UQH, N6YMD + others
2000 THU HAM HELP, *AB6LY, N6YMD
KC6UQH, AB6QT and others

--147.13 EVAC 2/4th Tue. 1900, KH6TL*
--O T H E R N E T S *****
MONDAY 1930 RACES on net on 147.195
NIGHTLY 1:30Z Maritime Net 28.313
So. Cal. Mark-AA6TR*
SAT-SUN 2000 SSB on 28.340 KD6AKT
WBOYQC

MON->SUN KING HENRY's Round Table
on 147.13 at 2200

* Net managers (pse send ur updates
to the editor)
PARC Net Coordinator - W9FQN

The Palomar Amateur Radio Club
supports the above 28 nets during
the week with its repeaters located
on Palomar Mountain. We will add
additional nets if there is a demand
for them by the amateur community.
The purpose of these nets is to
bring our club members closer
together, to answer their questions



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723-0620

Loyal M. Hanson - W9WV
Fallbrook, California

about amateur radio, and to provide
emergency communications to the San
Diego Community. =SK=

***** N E W S *****

Contributions to =NEWS= should
be sent to your editor by the 20th
of the month. =SK=

STOLEN: Alinco DR-570T
#0002163, RCI 2950 10m xcvr #921409,
and M-300 10m amplifier on Dec. 14th:
Dan KC6PRW

The Challenger JrHS ARC will
operate January 28, 1994, to
commemorate the 8th anniversary of
the Challenger space shuttle
tragedy. Hours will be 1400Z to
2400Z on 14.280, 21.280, and 28.380
depending upon conditions. For a
special QSL card, send your QSL card
and SASE to Challenger JrHS ARC,
10810 Parkdale, San Diego, CA 92126.

RALPH-K6HAV and PAT-N6NNI where
in town Nov30th to work on a slow
escrow ..they wanted to say HELLO to
all of their old friends and they
wish everyone a HAPPY NEW YEAR and
expect to return again early in
January of February. He also gave to
W9FQN a 160m vertical which the club
has used on previous Field Days.
(Ralph was the previous Editor of
the SCOPE, PARC president, and
Repeater site chairman dating back
to the early 70's. He now lives in
Salt Lake City. -Ed) =SK=

JERRY-WB6FMT who built the
club's autopatch system has just
finished installing an amateur radio
television system in one of his
radio controlled airplanes allowing
him to see what is below the model
airplane as he flies it. =SK=

LARRY-WA6ATQ indicates that the
Arizona Bullhead repeater in one of
the last issues of the SCOPE should
have been listed as 145.17-. =SK=

The DAYTON AR Association is
now accepting applications for its
annual \$2,000 scholarships. Licensed
amateurs graduating from HS in 1994
are eligible and questions should
immediately be directed to DARA
Scholarships, 45 Cinnamon Ct.,
Springboro, Ohio, 45066-1000.

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) =SK=

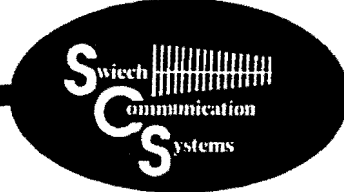
REPEATERS
WB6IQS W9FQN

To get into the new RTTY repeater you will need about 1-2 seconds of a "MARK" tone to bring it up AND a PL of 107.2Hz. Without the PL tone you bring up only the RTTY repeater in the LA. When you turn your PL on you bring up the PARC RTTY repeater ..and probably the LA too. We have been toying with the idea of allowing 5-10 seconds of voice to activate the repeater so that verbal instructions can be given to new RTTY operators who will undoubtedly need help. The other possibility would be to OPEN up the repeater for voice only during RTTY nets (someone even suggested we allow CW contacts and practice on the 146.7 repeater). We hope that as more amateurs become acquainted with RTTY on 2m that they will be encouraged to try RTTY on the HF bands which is much more difficult ...and even to try AMTOR which many amateurs think is THE ONLY WAY TO FLY.

Most of the military (MARS) messages came into us on RTTY from the Gulf, Somalia, and the various military ships and commands in Europe and the Pacific.

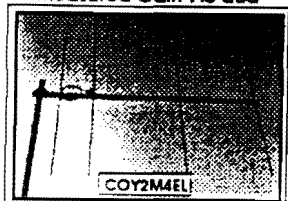
Several club members have suggested adding to the RTTY mode the ability to pass high speed CW, AMTOR, and PACKET, but because of our coordination for 146.7 we must only pass RTTY and possibly short VOICE RTTY HELP messages to help members get their RTTY rigs in operation. The purpose of the RTTY repeater is to get members familiar with RTTY operation and hope that they will be able to put this information to use on the HF bands (3-30MHz). During emergencies we will need UHF and HF RTTY!

The following club members have been heard on 146.7 RTTY: Charles-N6TEP, Ruff-KR6K, Bernice-N6QWR, Joe-N6YMD, and others too numerous to mention. Most packet TNC's have an RTTY mode so why not check in some Sunday evening around 8:30pm or listen in from about 8:15 to 9pm to

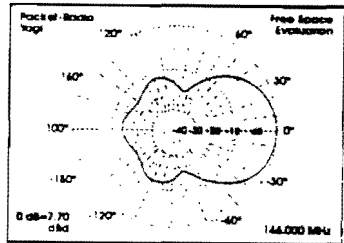


Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd



H-Plane beamwidth 60 deg
Bandwidth 144.5-147.5 MHz
SWR < 1.7 at Band Edge
Impedance 50 ohm
Silver Plated Teflon SO-239
Maximum Power 500 Watts
Chemim Treatment On Brackets
Balanced Matching System
Two Part RTV Potting
Black Delrin Insulators



(619) 748-2286

Gene Swiech, WB9COY

see if any of the messages from the 8pm 146.73 traffic net are being passed on 146.7 RTTY. Its fun to be able to send out your messages in REAL TIME without CONNECTS (es disconnects) knowing that the receiving station is receiving the information at the time you are sending it.

During emergencies there is the possibility that many health and welfare messages will be sent to WA6Y00 on VHF RTTY in Escondido for

re-transmission out of California on HF RTTY or AMTOR.

Tests seem to indicate that the RTTY repeater fits in nicely with the 146.7 repeater which is only 30kc away from 146.73. =SK=

We are now noticing that sometimes when someone is on the 147.13 repeater that interference is heard on 147.075. The interference is weak and most stations, even HT's, can talk right over it. We are not sure whether the problem is due to problems inside of the new building, intermod, rectification on the tower, or just what is going on. Unfortunately, this is taking place when the weather prevents us from looking at all of the possibilities. =SK=

The 449.425 repeater is beginning to show more usage. You can actually make a call and expect someone to come back to you. For those of you with dual-banders, it would be wise for you to state that you are on the "70cm" band when you make your call so that your "friend" doesn't call back on 2m. =SK=

AUTO PATCHES
WB6FMT W9FQN

NEW MEMBERS should request an AUTOPATCH INFORMATION SHEET for the five 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. =SK=

The SAN DIEGO COUNTY TRAFFIC NET (SDCTN) which meets on 146.730 each evening at 8pm to pass traffic in and out of SDCo sometimes does not have enough check-ins from all parts of the county. Net members who do check in are encouraged to take traffic even if it is not in their area and pass it by use of the club's autopatch system. We would prefer that you try to pass the autopatch traffic first on 449.425, then 147.075, 147.13, and last on 146.730. The 147.075 repeater has a net on it most evenings from 7-8pm and 8-9pm on Wednesday and

Thursdays. This means that everyone can get in on the traffic handling net and get some practice using the autopatch system at the same time! =SK=

DRIVING AT NIGHT AND TRYING TO KEY IN THE AUTOPATCH CODES COULD BE "HAZARDOUS TO YOUR HEALTH" SO IF YOU HAVE AN EMERGENCY YOU MIGHT ASK FOR SOMEONE TO DIAL UP 911 FOR YOU. IF YOU DO DIAL 911, WE SUGGEST THAT SIGNAL STRENGTHS FAVOR THE MIDDLE AUTOPATCH WHICH IS SECTION #2. SINCE MOST AUTOPATCHES ARE RUN IN THE UPPER SECTION, IT WILL TAKE SOME EXTRA THINKING ON YOUR PART TO REMEMBER TO USE THE MIDDLE SECTION FOR 911 CALLS.

~~~~~  
 WORK PARTIES ~~~~~  
 ~~~~~ W9FQN

If you are on a work party, make sure that it is reported to the editor.

(11-21) The weather is colder but its still nice working at the site ..with the exception of climbing a very cold tower up into the cool breezes.

TOM-KN6BN and his charming wife, ROBIN, contributed greatly to several unfinished projects. They installed flourescent lights behind the 14ea 1,680Ahr cells so we could see the acid levels more easily. Robin almost single handed dug approximately 100' of trenches to bury our 3" copper ground strap.

DAVE-KD6EBY came over at noon time to run checks on the battery system and to draw up plans for 12vdc bus bar protectors for all of the cells which W9FQN will construct.

TOM-KD4UFD cut up the 12" wide by 50' copper into 3" strips for a total of 200'. He "jacked" out a ground rod that hit a rock and helped others with their projects. Tom joined the club since he is taking a navy electronics course in SD and will be in the area for at least the next six months.

DAVID-KC6YSO (after instruction by Art-KC6UQH) became our new expert on silver soldering as he soldered

The Fishing Hole

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**W7HKI Larry
W7HKL Maxine**

**10% of all sales
to PARC members
goes to our club**

all of the ground connections together. We still have a few more connections to make before we are done.

MIKE-AB6QT adjusted level controls on the 449.425 and 146.73 repeaters.

PAUL-KB5MU and BRIAN-WB6CYT worked on the 70cm METRO LINK to south county: adjusted levels and frequencies.

ART-KC6UQH sometimes finds himself spread so thin that he

wonders what he came up to the site to do. Art helped everyone with their problems and solved a few of his own: installed the new control receiver, attached fittings to hard line, tightened heliax connectors, and connected up the spare heliax line to the new control receiver.

STAN-W9FQN installed a new "inside-outside" \$14 Radio Shack thermometer in the new building to keep track of the temperature swings. He also helped out others by providing them with tools and information to complete their tasks. He also was the only one on the tower and worked at the 60' level connecting up a new heliax run to our old control antenna ..and found out what "wind chill" was all about.

David-KC6VEC and Ted-KC6ZRV dropped in around noon time to show us a new ATV antenna.

(12-1) DAVID-KC6EBY checked battery levels and adjusted charger currents.

(12-1) FRED-KE6BGI can't come to work parties but sent as a substitute a complete set of NEW drills from 1/16 to 1/2" by 1/64ths which will be kept at the site. Fred gave the club a tool chest last month to be used at the site. =TNX=

F O R E S A I L ~~~~~
 Masts R 4 antennas!

Phone or send ads to W9FQN, (C Editor's address) B4 the 20th of the month with ur NAME, CALL, Ph #, & CITY. Personal ads R FREE to club members. All others cost 25c/column line (36spaces). =SK=

(12-14) SWAN 100MXA xcvr w/PSU-5C pwr \$295; JUKI 6100 Letter Quality printer immaculate w/ribbons \$50; Bill N6COU 758 7163 Ocsd.

To sell old radios and related items, write Vintage Radios Wanted, Box 214, Des Plaines, IL 60016, or to sell old or odd television sets write collector, Dan Gustafson at GSA Advertising, 211 E. Ontario St., 1750, Chicago, IL 60611. Enclosing a photo or description with names and model numbers and an addressed, (Cont.Pg10)



 ***** LETTERS to the EDITOR *****

 Ur Ed & Board reserve the right to
 print letters & edit as needed.

The following is a letter received from BERNICE-N6WQR via JOE-N6RVO, PARC SDCTN manager, which was sent to her by KI6CI: "Hello Fellow Ham Radio Operator ..thank you Bernice for your personal concern and commitment to =getting the message thru!= It was important to me to receive the report the message was received ..it delt with a young grandson and an award with a check. My wife, KB6ILV, and I have been involved with NTS ..for quite some time. I was Net Mngr of the SCN Santa Barbara Section. My wife and I still operate as Net Control regularly. We have found the RN-6 NTS net on HF has been 90% reliable in passing traffic. However, packet has been only about 30% successful. Somehow, when operations become very automatic reducing the actual participation by human beings, the impersonal nature of such systems demands that =machines & gadgets= take on a personal conscience! Once again with a bundle of thanks. 73 KI6CI (Bernice called an important message to KI6CI when she realized it would take too much time to get to him - Ed).

COMMENT- In addition to Bernice, CHARLES-N6TEP has also gone out of his way to see that the messages "get through" and he was using his "own nickle" to call outside of his calling area when no other stations on our SDCTN would take the traffic. Now he sometimes picks up from 10-20 messages on the club's RTTY repeater which he then delivers using the club's autopatch system.- Ed. =SK=

(de BARRY-KC6QJR ref Dec. SCOPE FM deviation and shouting) ..would like to add to your comments by noting that while it is true that signal-to-noise improves with the additional deviation, the increased deviation is clamped by the limiter circuit in the transmitter or

Jennifer A. Thieme
KM6WG
Bookkeeper
Accountant
(619) 599-1134
 770 Sycamore Ave. #J-126
 Vista, California 92083

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Pete W3ARU's XYL

distorted in the IF filter of the receiver. Either way, the result is non-linear distortion, and any improvements from increased deviation are offset by this distortion. Additionally, if the TX limiter is not symmetrically balanced, the TX synthesizer can get fooled. As you mentioned, the bottom line is don't shout! If readers need more convincing, they should listen to a public safety repeater when an emergency is in progress. (a person

with a weak signal is told that they can barely be heard ..so they SHOUT ..hence dropout and distortion -Ed)

Barry is a Senior Engineer for Coded Communications in Carlsbad and we hope that he will consent to put on several meeting programs for us in the near future -Ed. =SK=

(de MARK-KC6CZ0) Ref. Chris Boyer, KC6UQG in last SCOPE ..quite coincidental I think, I just happen(ed) to be listening to the San Diego Police on the scanner I have at work on my desk and heard the whole thing. I can testify to his frustration in trying so many repeaters to get help and finding none. Where were all the controllers on those repeaters? ..I know the feeling when I have come upon a serious accident with personal injury in my daily travels ..I come up on the repeater (trying all the PARC and other repeaters) calling emergency break and get no responses. Sure does impress those involved in the accident who are standing at my window listening to me getting no response ..then I have to resort to stopping a vehicle too go to a phone to call 911 wasting precious time for the injured. I don't have the autopatch codes and most of the time I get too busy giving first aid and CPR to be messing around with punching buttons. There's too many hams that use the clubs repeaters for me to believe that there is really no one listening ..when I was working on the Palomar Mt. fire about 4-5 years ago, I was asked to remain longer than it originally planned ..I got on the repeater and had asked a ham to please call my wife and inform her I was ok and would be late by a couple of hours. He wouldn't because he lived in Vista and ..it would cost him about 20 cents ..Oh well, guess I better get a cellular phone so I can get help for victims, huh?

UPDATE- the last issue of the SCOPE reported that the HT was in the hands of the police in one article and ended up in the hands of RACES in another. Your editor was

told later that the HT really ended up in the hands of the Sheriff's department who was trying to hold the HT as evidence although no one had been charged with a crime. Someone commented that the HT would be handed over to RACES.

AL-N6GNM called me to say that RACES did not have the HT and RACES would write me a letter to that effect which I have not yet received. I was then told that the Sheriff's Department was having troubles keeping the HT or giving it to RACES because of various pressures (bad publicity?) being brought upon them from several areas. It now appears as though this pressure has forced the Sheriff's Department to give the HT back to the FCC who also finds it a HOT POTATO ..it was rumored that the FCC has tested the HT from the location where the accident occurred and reported that they could bring up several repeaters ..which really misses the point since Chris said that he could not get an emergency message out on any repeater (no one would respond) ..the FCC now appears to be leaning towards forcing Chris to donate it to a charitable institution (RACES?) in lieu of fining Chris. If Chris donates the HT to some group, the FCC apparently won't fine him. Some of the ARRL communication on the subject seems to indicate that the ARRL thinks that the SD FCC office "over reacted" to an emergency communication with no intent of harmful interference. Chris was also faulted for not asking help from the ARRL. Almost no information is coming out of the FCC SD office for various reasons. There is more to this story than meets the eye (or ear) and we hope it does not go any further from an FCC standpoint ..so we leave this HOT POTATO to bake ..until the next SCOPE when we might find out who really has the intestinal fortitude to keep this HOT POTATO. 12/11 -Ed. =SK=

(de ARRL QST Mag Dec 93 pg 25)
..several levees started to leak and



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break ..the US Coast Guard called the EMA office to request a direct radio link on 155.29 MHz for communications between its helicopters and the EMA office. We pulled the cover off Bill's 2-meter rig and field modified it for use up above the band (this sounds familiar -Ed). His antenna and amplifier worked great, allowing us to talk with the chopper and direct them to the affected areas. =SK=

---PARC STANDING COMMITTEES---

(if you can stand, we need you)
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AWARDS, WAS...NN8P.....Howard Frank
..... 943-8336, Encinitas
BILLING.....W6OLQ.....John Tentor
..... 672-3891 R. Penasquitos
BADGES.....W6OLQ.....John Tentor
BY-LAWS.....KI6JM....Jack Hanthorn
..... 598-0420, Vista
COFFEE(Mtg)...KB6YHZ.....Art Nye
..... 758-0234, Vista
CONSTITUTION, KI6JM....Jack Hanthorn
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NEWSLETTER...W9FQN.....Stan Rohrer
PAST PRESIDENTS (active)->
..... Ed-N6GZI, Stan-W9FQN
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..... 726-0595, Oceanside
PROGRAMS...KC6UQH.....Art McBride
..... 741-8143, Escondido
PUBLIC RELATIONS, N6UWW, Ellen Utschig
..... 630-0950, Vista
..... KK6LX, Benton Caldwell
..... 729-5161, Carlsbad
(Cont.Pg.11)

*****=ATV de Pg.1

BILL-KB6MCU and GENE-WB6COY, PARC club members, participated in the discussion where members of the technical committee present asked question about the proposed setup. Gene has worked with ATV and makes commercial antennas which could possibly be used in this project. Bill operates an ATV station from his QTH and made comments on possible funding and operational parameters.

Bill pointed out that with the proper choice of frequencies club members would be able to set up their own receiving station for about \$100 and then expand into transmitting at a later date with their own camera.

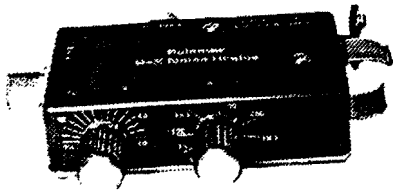
JERRY-WB6FMT has constructed an ATV transmitter so small that he flies it in one of his radio controlled model airplanes sending a picture back to his ground station. He buys small ATV converter kits for about \$50 and uses a small portable TV set for the picture.

The executive board directed Bill and Gene to draw up station diagrams along with estimated expenses, tower requirements, and equipment space required. This proposal is to be submitted ASAP to the technical group for consideration and then taken to the board for approval.

PARC is probably interested in ATV for several reasons. First, it would fit nicely into PARC's objective of serving the community in times of emergencies. Portable ATV stations could send back pictures of disasters. Someone once said, "a picture is worth a thousand words." The EVAC group in Ramona and Vista have been heavily involved with ATV in several of their emergency exercises but have run into problems with short simplex ranges. A repeater on Palomar Mountain would rebroadcast their signal over 2,000 square miles of SDCo.

Second, the repeater could be used for club training, interschool



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demonstrations, monitoring the repeater site and its antennas, bulletin boards, etc. Does anyone have any other suggestions? =SK=

***** QRM de Pg.1

finally cause an end to the bitterness and killing in Israel and surrounding countries, and maybe, just maybe, we can get our own politicians to agree on a plan which will provide decent health care to ALL our citizens.

Although it wasn't cheap, we again demonstrated to the world, that when America puts its mind to it, we can accomplish anything. I refer of course to the brilliant display of technical wizardry by our astronauts who spent hours in space-suits repairing the Hubble Space Telescope. Truly Amazing!

Again I would like to thank the membership for your vote of confidence in electing me for a third term as Club President. You have also put together an outstanding team to work with me and for the club to make us the best we can be. We will work hard not to let you down.

The Club is working toward the establishment of an Amateur Television (ATV) repeater at our site on Palomar Mountain. For a modest investment in equipment you should be able to transmit and receive ATV within the county and by link to other areas in the state.

It is not too early to begin thinking about Field Day 1994, the last full weekend in June. Larry, AB6LY, will be the Chairman, ably assisted by Bill, KB6MCU, and others to put together another winning combination of people and equipment. Would it not be something, to win in the 5A class for a fourth consecutive year?

Also in 1994, we have the ARRL Southwestern Division Convention, to be held the last full weekend in August at the Town and Country Hotel in Hotel Circle. This is the premier event of the year. Don't miss it!

I would also like to thank the many club members who do so much to make this a great club. From the Editor of the SCOPE and his elves who fold, spindle, and mutilate the newsletter each month to those who set up our meeting site, fix coffee, and bring munchies and bring us interesting programs, to the many Net Control Stations who man the various PARC nets, handle traffic, give advice to those trying to fathom the mysteries of packet, microwave, and the like, to those

who educate our fledgling hams, to he who provides legal advice to keep us out of trouble, and to all of you who work quietly within the guidelines of our FCC charter to make Amateur Radio the great service/hobby that it is, I thank you from the bottom of my heart.

May you and yours have a very Merry Christmas and a healthy happy New Year.

73, Harry-WA6Y00, 2435 Our Country Rd
Escondido, 92029, 743-4212

*****=Editor de Pg.2

PARC at this time needs more members to check into the SDCTN on 146.73 at 8pm each evening. While the net lists traffic by areas and we encourage members to pick up traffic for their telephone calling area, it needs to be remembered that PARC has five autopatches which can be used to deliver traffic when it is not within your calling area. This is also an excellent opportunity for you to get used to using the autopatch system to call different areas within SDCo from your home QTH.

We have added an RTTY repeater on 146.7 which we are starting to use for the passing of traffic quickly in "real time" to those able to deliver it. The refilled MARS traffic can all be sent at one time with net members agreeing upon which pieces of traffic they will deliver from the received group of messages. CHARLES-N6TEP has really made good use of this RTTY station by picking up large volumes of traffic (up to 20) and then jumping over to 449.425 or an open PARC 2m repeater to deliver the traffic by autopatch. Admittedly, this ties up the autopatch for long periods of time but it is worth it from the standpoint that members are learning to properly use the patches and the messages are quickly delivered.

Remember, if the autopatch system on PM is being used by one of the four repeaters, it cannot be used by the remaining three repeaters until the call is

completed. The new autopatch system to be installed in the Spring will have a SYSTEM busy tone so that you will know that it is being used on another repeater but until that time you will not be able to get the SYSTEM to respond to your request.

YOU ARE NOT REALLY A WELL ROUNDED AMATEUR RADIO OPERATOR IF YOU HAVE NEVER EXPERIENCED SENDING AND DELIVERING MESSAGES. Besides, in times of emergencies many messages will need to be delivered by SDCTN and we will need many experienced operators. WILL YOU BE READY TO HELP? WILL YOU KNOW THE PROPER MESSAGES FORMAT? The SDCTN is a training net for emergencies. You can and will make mistakes. You will probably be politely corrected sometimes by the net control or net members. But remember, it is a training net. Listen in a few times and see how the net is run by the OLD TIMERS (OT's) and how the messages are worded and handled. Step in and get your feet wet. =SK=

***** SAIL de Pg.6
stamped envelope for a free appraisal, reply or cash offer.

(12-01) Yaesu FRG-7 rcvr gud cond orig carton w/YH-55 headphones, bat & dust cover \$125: Dave WA6HQM 753 2605 (Merry Christmas & a Happy New Year to you too Dave -Ed)

(11-30) Kenwood TS-430S xcvr, SP430 spkr, AT130 tuner, MC60 desk mike, PS30 hvyduty PS, MB430 mobile bracket all used <50hrs, firm \$750: Dick W60ML 909 672 3871.

(11-16) Ten-Tec Omni-D 100w HF xcvr \$320 w/pwr \$70; Ten-tec keyer w/paddle \$60; mfj-941B 300w HF tuner \$60; G5RV 10-80m ant \$35; Hustler 4BTV 10-40m vertical \$50; Hustler RM-40 resonator \$15; Kenwood SW-2000 SWR/pwr meter with VHF remote sensor \$100: Duane AA6EE 789 3674 Ramona.

(10-16) Tony-K3UKW (east coast) has a list of used gear. Contact W9FQN with yellow box at meetings to see the list or 749-0276.

(7-8) Commodore C-64 computer complete ex cond monitor 2-drives 2-printers 80col card mem-exp card

software RTTY interface, inst books all \$200: Henry N6JWF 945 1247 Ocsd. GOOD WAY TO GET ON RTTY AND RUN CODE!

6-18) Drake w4 wattmeter .2-2kw scale \$55; TENTEC squeez keyer \$55; battery charger D-A-C cost \$30 now \$9; mobile 3.5" cone spkr \$8; SCANNER R/S mobile + 110vac w/mt bracket w/out of area xtals UHF/VHF \$20; E Voice Mic 674 W/stand & cord \$25: Larry W7HKI 439 5855 Ocsd.

***** WANTED *****

"a few good men" or "women"

(12-13) The person who had the TU-170 RTTY terminal unit for sale: W9FQN.

(12-13) Small oscilloscope for use at the repeater site to check audio levels: control, autopatch, RX/tX, etc: W9FQN

(12-12) DC current probe for Tecktronics AM-503 and/or scope DC to 50MHz: Stan W9FQN 749 0276 VillyCtr.

(12-10) Baja Ham, XE2XU, is looking for a 12v HF radio for 80-40-20. Possibly early Atlas: Nash W6HCD 728 3574 Bonsall.

(12-6) To copy manuals for Techtronics Oscilloscope TM503 and plug-in SC502. Need schematics for both badly: Mountain Mike AB6QT 742 1573 Palomar Mt.

(11-17) To copy manuals for early ALINCO ALM-201 2mHT and KENWOOD UHF FM 70cm xcvr TR-8400: Stan W9FQN 749 0276 VillyCtr.

(11-16) To copy TS-130S op manual & ARRL National Convention program booklet: Duane AA6EE 789 3674 Ramona.

***** S W A P M E E T S *****

OCEANSIDE: Meets 2nd Sat. at Oceanside Drive-In, Rd76 (3480 Mission Ave.) between I-5 & El Camino Real. Talk-in on 146.730. Buyers 50c & sellers \$13. If U R selling only a few items, U might want to double up with others to reduce UR individual sellers cost. U might also want to check with Harry-WA6Y00 for discount coupons.

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SALE (late) Yeasu FT-747 w/FM/mic/man ex \$550; Multi-2000 multimode VHF radio w/mic gud \$150; MFJ 901 ant versa-tuner HF 300w \$35; Heathkit HA-20 6m linear amp 10in/125w out gud \$125; Waveteck 3000-200 RF SigGen 1-512MHz, digital 50ohm step atten .1micV-1V CW/AM mod 400Hz or 1KHz mod, FM dev meter, needs work \$350; vacuum pump 0-30in Hg \$100; IBM PC/XT turbo 2-360k floppies 10MB HD, prt port, CGA card & color monitor, software ex \$200; same but Hercules video card \$125; 2ea xerox D80 daisywheel printers new programmable \$75 ea; Okidata m83A wide carriage print ex \$60; Epson MX100 wide carriage printer Grafrax \$75; Link 220 dumb terminal \$25; Daewoo 220 dumb terminal \$25; 2ea uninterruptible pwr supplies, batteries gud but need repair 120VAC @ 4.5A \$25ea; Eric KB6EPO day 545 7068 eve + wkends 011 5266 820283. Need room to sit down.

(12-16) Kenwood Ts-430S xcvr W/
FM-430 & CW filter mint \$650; PS-430
AT-250 & SP-430 also available.
'94 CALLBOOKS North American \$25.95;
International \$25.95. Both \$49.95. '94
ARRL Handbook \$23.95. Benchner Paddles
\$59.95. Postpaid + Tax. Pd.Ad.
Duane AA6EE 789 3674 Ramona.

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COMMITTEES ~~XXXXXXXXXXXXXXXXXXXX~~ de Pg.8
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 RACES REP. ?

RED FLAG REP...W6HCD, Nash Williams
REPEATER SITE...W9FQN....Stan Rohrer
REPEATER TECH, WB6IQS, John Kuivinen
..... 724-8380, Vista
REPEATER 145.05Mhz, WB6IQS, John; and
Paul Williamson, 571-8585, SD
REPEATER METRO LINK 70cm: see 145.05
REPEATER 146.70...WB6IQS....John K.
REPEATER 146.73...AB6QT...Mike Doyle
..... 742-1573, Palomar Mt.
REPEATER 147.075, KC6UQH, Art McBride
..... 741-8143, Escondido

REPEATER 147.13, KC6UQH, Art McBride
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REPEATER 449.425, AB6QT...Mike Doyle
REPEATER PATCH, WB6FMT, Jerry Houser
..... 758-4388, Vista
REPEATER POWER, KD6EBY, Dave Tennant
..... 749-2907, Vally Center
REPEATER SIMPLEX, AB6LY, Larry Gogle
SWAP MEET:.....AB6LY.....Larry Gogle
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..... 693-4955, S.D.
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SOUTHWESTERN ASST.DIR., W9FQN, Stan
SWAP MEET.....AB6LY.....Larry Gule
TRAINING.....KB6MCU.....Bill Smith
TRUSTEE W6NWG:..WI6B....Ron Wilhelm
..... 756-3133, Rancho Santa Fe
(Phone #'s are listed only once)

Committee heads and members of committees serve until replaced by the President and/or his Board. All committee heads were appointed by PARC presidents except for the trustee of W6NWG who was appointed by the PARC Board.

Reappointed to Board positions for 1994 were JOHN-WB6IQS and STAN-W9FON.

If you are interested in helping with one of the above ~~committies~~, please contact the ~~committee chairman~~. This is a good way for new club members to meet people and to gain an inside working knowledge of how the club functions.

If we have missed anyone that has been appointed by WA6YOO or was appointed by W9FQN previously, please contact your editor so that the oversight can be corrected for the next listing. If there are any club activity areas missed or that you would like to volunteer for, please contact your president, HARRY-WA6YOO.

5 YEARS A GOGO
(1-89) ..discussed desense

problems on 146.73 ..59 members and
22 guests at club mtg. (total 81)
..Phil-WF6L and Art WA6IPD installed
a tri-band beam on Potter Jr.HS
..Carlsbad Safety Center donated a
room in their building for an
amateur radio station ..PARC
operated 5 nets/wk (now over 23)
..the Sunday morning ARES net on
146.73 at 8:30am was started on
146.73 simplex before W6NWG/R (re-
peater) was put up on Palomar
Mountain to let folks know that PARC
had been assigned the frequency (de
Ralph-K6HAV) ..SCOPE 10 pages
..RALPH-K6HAV Editor; Pres. STAN-
W9FQN; VP. MAC-NH6EW; Sec. NASH-
W6HCD; Treas. RON-WI6B; Rptr. Tech.
JOHN-WB6IOS. =SK=

QUESTIONS

If you have (Q)uestions, please send them into the SCOPE editor or hand them to a board member. They will be printed on a "space available" basis unless they need to be answered immediately. p Q: Can I dial an 800 number on the autopatch system?

A: Yes, but the mini-computers will dump the calls to a dial tone or a loud tone on the repeater whenever you dial a "non-permitted" number.

Q: When Todd, KB7QDZ, finished his 2,700 mile hike from Canada to Mexico (S.of Campo on Nov.18th) I heard him using our autopatch system to talk to his dad (long distance) in the state of Washington. How could he do that?

A: A control operator was advised of the possibility of the long distance autopatch call several days in advance and allowed the call to go through in such a way that PARC did not pay for the call.

It is also possible for a control operator to "deactivate" the computers allowing all calls to go through but it is a "pain" to do so.

Q: is there any way that I can help the autopatch control operators?

A: No and yes. If the person running the patch is violating FCC

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 |

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 send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

rules you probably should leave a control operator take the appropriate action. If the club member is not running the patch according to PARC rules, then you might want to politely come in and suggest the proper patch format. The biggest problem so far is a violation of the "giving your call list" before issuing the shutdown code "#" so that the users call letters are on the master tape deck.

If you suspect that the person is not a member or is not an amateur

radio operator (uses blurred call letters or doesn't seem to use "ham" speech or operating techniques), then you might consider ascertaining his call and address and offer to have a newsletter sent to him..if he will only give you his address.

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LX yy mm

Non Member:

we thought that you might like to consider joining PARC because we have noticed your...

___ interest in amateur radio

___ new / changed license status

___ request for information

or using ___ 146.730 ___ 147.075

___ 147.130 ___ 449.425

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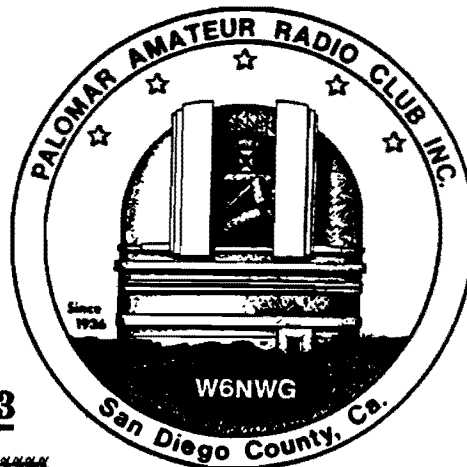
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Scope

W6NWG

Palomar Amateur Radio Club Inc.

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***** Volume XX, Number 02

***** Published monthly by PARC

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East on Faraday 0.25 mi, left to CSC,

Thomas Bro. Pg.14F6.Talk-in 146.730.

***** E L M E R S ***** (call for info)

CARDIFF, . Duane-WB6R, 753-4821

CHULA VISTA, Steve-N6RUV, 422-4415

ESCONDIDO *** Harry-WA6Y00, 743-4212

*** PALOMAR AMATEUR RC PRESIDENT

La MESA, . Roger-N6UW, 697-6025

LAKESIDE, . Mac-WB6GXR, 561-2211

RAMONA, . Vern-AA6UU, 789-3070

SAN DIEGO, . Dennis-N6KI, 271-6079

SAN MARCOS ** Ralph-KC6WAN, 727-7415

*** PARC MEMBERSHIP CHAIRMAN

VISTA, . . . Jack-KI6JM, 598-0420

SAN MARCOS, Rusty-AA6OM, 747-5872

(Head PARC VE testing program)

Prospective amateurs ONLY can call

1-800-32-NEW-HAM @ the ARRL Hdq

8AM-5PM ET M-F for information.

I N S I D E:

Pg. 2 Minutes, Board, Last Mtg, Ed, TNX

Pg. 3 Membership, SK DLW/HTT, HRO Ad

Pg. 4 SD Traffic, Ant(s), Misc. 2Ad

Pg. 5 Repeaters, 2Ad

Pg. 6 Autopatches, 2Ad

Pg. 7 FOR SAIL, 2Ad

Pg. 8 Wanted, Years AGOGO, 2Ad

Pg. 9 DXCC/WAS, 2Ad

Pg.10 Experts, Funnies, ARRL,

Pg.11 Letters(Ed),

Pg.12 Application Form, Addr. Label

OPEN REPEATERS / CLOSED AUTOPATCHES

PARC FREQUENCIES USED:

145.050 *PacketNode, W6NWG/"PALMAR"***

145.520s, National Simplex Frequency

146.535s, Palomar Amateur RC Simplex

2m Simplex Emergency Portable Rpt.

146.175+, PATCH, PLed, Fallbrk, WA6IPD

146.700-, *RTTY, PLed, (IN = OUT) **

146.730-, *PATCH, PLed, Palomar Mt.**

147.075+, *PATCH, PLed, Palomar Mt.**

147.130+, *PATCH, PLed, Palomar Mt.**

224.900-, *PL, PMt, 220 ClubSD, WD6HFR

METROLINK, *Pmt Pkt link, 9600 baud **

446.000s, National Simplex Frequency

449.425-, *PATCH, PLed, Palomar Mt.**

*Rptrs/Patches cover 2000sq-mi SDCo.

WB6FMT-VSTA; WV6Z-MMSA; N6IZW-LMSA

** = W6NWG, PARC, trustee, Ron-WI6B

(107.2 Hz used for all PL's)

ATV project to be started Spring '94

PRESIDENTIAL QRM *****

***** WA6Y00

If you need any justification

for being a Ham, all it takes is a

disaster like Los Angeles to remind

you why you got a license. In just

minutes after the tremor hit, health

and welfare nets were up and

operating. If you lived in one of

the effected areas, there was no way

anyone from outside your area could

call you on the phone.

I was called by several

families who had loved ones in the

San Fernando Valley. A number of

exchanges blocked incoming calls

(this is why PARC has four entry

points into the phone system -Ed)

and they hoped I could get through.

On 7.227 MHz there was a net

handling calls for the (Cont.pg.9)

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

Feb. 9 Wed. Palomar ARC Club Meeting

*** Date Changed, start 58th club yr

*** THIS IS THE 2ND WEDNESDAY!!!!!!

Feb 11 Thur. PARC 7pm Board Meeting

Feb.12 Saturday PARC VE Carlsbad SC

Feb.12 Oceanside Ham Swap Meet, Rd76

Feb.18 DEADLINE FOR SCOPE ARTICLES

Feb.22 SCOPE placed in mail at Vista

***** NEXT CLUB MEETING *****

***** KC6UQH

Art McBride-KC6UQH, VP and pro-

gram chairman, has announced that

the February club meeting will be a

program on VHF/UHF antennas by Gene

Swiech, WB9COY, who is president of

Swiech Communication Systems in

Poway. Gene has been active in

PARC's Field Day, attends almost all

Southern California swap meets, and

produces a great line of VHF/UHF

antennas ..so beam yourself into the

Carlsbad Safety Center on the 9th!

SHOW & TELL: Talk to Art-KC6UQH

B4 the meeting to reserve time for

UR S&T item(s).

***** PARC's 58th ANNIVERSARY *****

The Palomar Amateur Radio Club

was founded in Escondido in February

of 1936 and will be 58 years old

at the February Club Meeting. See

AGOGO page 7 for more club history.

***** - E A R T H Q U A K E S - *****

***** W9FQN

Some newscasters are confused

about the Richter Scale of measuring

earthquakes and some of the

scientists sometimes do not use the

proper descriptive words in their

description of (Cont.pg.9)



NEWSLETTER HELPERS DEC.SCOPE
 KI6JM, Jack Hanthorn, Refreshments
 KC6WAN, Ralph Powell, printing, labels
 WA6Y00, . Harry Hodges, . Staples
 KB6YHY, . Anita Nye, . labels
 KB6YHZ, . Art Nye, . folding
 N6TCB, . Jerry Carter, . labels
 KI6JM, Jack Hanthorn, folding, Refresh.
 W6TFB, . Lloyd Hunt, . folding
 W9FQN, Stan Rohrer, Editor, PO Forms
 BOARD of D I R E C T O R S
 MEMBERS present:

President: Harry Hodges, WA6Y00
 VP-president: Art Mc Bride, KC6UQH
 Secretary: Nash Williams, W6HCD
 Treasurer: Jennifer Thieme, KM6WG
 RTechnical: John Kuivinen, WB6IQS
 SCOPE/etc: Stan Rohrer, W9FQN
 Membership: Ralph Powell, KC6WAN
 Board Member: Mike Doyle, AB6QT
 absent KC6LV

- also present -

Training/FD: Bill Smith, KB6MCU
 Constitution: Jack Hanthorn, KI6JM
 OTHERS: Sybil-W6GIC, Mike-KD6VHI,
 Gene-WB6COY(ATV), Ken-N6ALA, &
 Becky-KE6BUE.

-SECONDS-

Club members are invited to attend these meetings to observe the Board of Directors in action ..or non-action ..es (and) get (1) activity pt for attending! Harry's brownies were especially good this month and Jerry-N6TCB's cookies were fantastic.

DISCUSSED: EquipBal \$1698, General \$3,708, PrePd \$2759, PO \$200; early SCOPE (4da); membership 708; badge and PARC colors; ATV equipment and structure.

APPROVED: ATV committee heads Bill-KB6MCU & Mike-WA6SVT; ATV PARC Fund and request for donations; CHARLES-N6TEP as San Diego County Traffic Net Committee head; removed PARC from sponsorship of Oceanside Swap Meet because of insufficient activity.

Please contact one of the board members for more info. or see the secretary for written comments.

LAST MEETING

In attendance were 114 members, 15 guests, for a total attendance of 129. We are still seeing members who are not signing the roster and are not getting credit for their attendance! PLEASE COME EARLY and help set up chairs.

ART-KC6UQH, club VP, who gave a very interesting technical meeting on receiving pictures from NOAA TIROS weather satellites. Art had slides, recorded pictures, and a demonstration of the equipment used in obtaining the satellite pictures.

YOUR EDITOR FORGOT TO MENTION IN THE JANUARY SCOPE THAT ART HAD CONDUCTED HT TESTING AT THE DECEMBER MEETING. MEMBERS WERE ABLE TO HAVE AUDIO, PL, AND TOUCH TONE LEVELS CHECKED ALONG WITH A FREQUENCY CHECK. THANKS ART FOR TAKING THE TIME TO SET UP YOUR EQUIPMENT AND PROVIDING THIS SERVICE TO CLUB MEMBERS.

SHOW & TELL featured BILL-KB6MCU showing another bare-bones repeater which he built using a \$20 GE transceiver and \$10 in parts. Bill always does a nice job constructing repeaters. JOHN-WB6BKR, a PARC member of the Microwave group, showed us a 2GHz 10db gain antenna which he used in an aircraft for broadcasting KTLA television pictures with a 20 watt tube type transmitter.

BILL-KB6MCU announced that there are 12 students in his PARC Advanced 12 week class that started Monday from 7-9pm and that there is still room for those who want to finish. He will be starting a new class for Novice-Tech this Spring.

ART-KB6YHZ and his charming wife, ANITA-KB6YHY, supervised the drink and goodie table with members bringing goodies: W6GIC, KE6BUE, N6TCB, KE6CDH, KD6ECD, KM6PY, KE6BGI, Becky-KE6BUE, and N6USR. Art was assisted in cleanup by MAC-WB6GXR who comes up to meetings from Lakeside.

The goodies were great and you

were rewarded with "1" participation ticket each (not per cookie ..or twinkie)!

- E D I T O R -



Stan-W9FQN 30311 Circle R Ln
 Valley Center, CA 92082-4806
 749-0276, 11:30am or 9:45pm

Club members have various ways in which they can express their views or desires concerning PARC activities and repeaters.

1st, come to a club meeting and contact one of the club officers or board members who are introduced. Its best to also hand them a paper briefly expressing your comment along with your name, call, and phone number.

2nd, come to a board meeting which is almost always at WA6Y00's QTH and on Thursday of the week following the regular club meeting.

3rd, you can write a note to the editor and see if he will publish it.

4th, you can offer to participate in the area or activity in question and work within the group to effect change.

5th, you can be quiet and hope that someone else will do your duty for you!

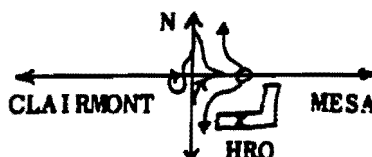
Your Board is under the impression that it is doing most things correctly since we receive almost no suggestions or comments from the membership despite the fact that the Board is working on some of our problems that we see.

Thanks to:

BILL-KB6MCU for the donation of a MFJ-1278 all mode digital controller which will be used in a future club project. =TNX=

ALF-WB6TAW for locating a group of 2m receivers for a PARC project. =TNX=

MARK-N6NNI for getting us another new member, EVERETT-KE6ESP =TNX=



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MEMBERSHIP

KC6WAN
de Ralph, Vista 727-7415
NEW CLUB MEMBERS wanting
confirmation of their membership
and/or an autopatch information
sheet should send W9FQN a (S)elf-
(A)ddressed (S)tamped (E)nvelope
(SASE) requesting same (see Editor's
address). =SK=

When you meet someone on one of
our repeaters who asks to join the
club just tell them to send their
\$12 dues to the club at Box73, Vista
CA 92085-0073 and to send in an SASE
so that we can send them the
autopatch control codes at the same
time. When they send in their dues
they should also send in the
expiration date of their license,
phone number, and if they are an
ARRL member. Its not a great idea to
have them request an application
form since it will take several
weeks to complete what could be a
three day operation. If they want a

form, they can stop in at HRO and
pick up one of our flyers or look at
the SCOPE posted on the bulletin
board. =SK=

SK*****SK*****SK
- K D 6 D L W -

We regret to announce the passing
of MALCOLM E. WIECHMAN on Nov. 29th.
His wife wrote that Malcolm always
enjoyed the meetings and the assoc-
iation with PARC members.

SK*****SK*****SK

The wife of Jack Althouse
passed away in December. Jack is
president and chief engineer of
Palomar Engineers. She will be miss-
ed by all who knew her.

SK*****SK*****SK
- W 6 H T T -

GLENN SCHMIDT passed away on Jan.
8th. Glenn was a long time member of
PARC and 1st received his license in
1947. He especially enjoyed the 10m
openings and DXing.

SK*****SK*****SK

ASSOCIATE members who have
received their new calls should

report them to me along with their
expiration dates ASAP so that our
records can be updated. =SK=

The club is selling PARC blue
hats with the PARC logo on it for \$5
and we are selling the commemorative
5c cent stamp pins for \$5. See me at
meetings. Sorry, but we are out of
the PARC blue shirts. If there is
enough interest, we will make up
another order. =SK=

Membership is 714+.

NEW/renewed:

3yrs= ROB-KE6DDF

2yrs= Larry-w7hki

1yr= ALAIN-KD6SBN/ag, WEICHYUN-
N30VB, WILLIE-KE6CSR, HARRY-KE6CXO,
BRUCE-KJ5QQ, MARTIN-KD6NDH, A1-
n6gnb, Mickey-n6gwj, Len-kb6mwh,
Jason-kd6adi, Bob-wa5uzm, Dee-n6elp,
kd6mkh, kd6odj, Sam-n6jhr, Erik-
ka6uai, Don-kd6nxa, Stan-kd6dln,
Steve-kd6spb, STEVE-WB6CJH, GARY-
AF7M, MARCELLA-TOSO, BILL-KC6TXN,
JAY-KE6CPA, DAVID-KD6KLZ, ANDY-
KE6CBE, JERRY-KD6ZSR, RUF-KR6K

(Ruf Eneyart, KR6K, has been a

long time Military Affiliated Radio System (MARS) operator and is responsible for a large amount of traffic which our San Diego Traffic Net (SDCTN) handles each evening. He picks it up off the MARS nets and re-files it on the SDCTN for evening delivery. In fact, Ruf and Charles Miele, N6TEP handle most of the evening traffic. Ruf re-files it from MARS and Charles delivers it by the club's autopatch system when out of his area. THEY COULD USE SOME HELP SO WHY DON'T YOU CHECK INTO SDCTN SEVEAL NIGHTS A WEEK TO SEE IF THERE IS ANY TRAFFIC HEADED YOUR WAY -ED)

CHANGES: KJ6QO to 466 W. Washington Ave #49, SD 92020; D.Schweiger to 2800 S.72nd St Apt #33, Lincoln, NE 68506; KD6FKM to 1346 Cedar St, Ramona 92065; KD6SXA to County H West, Cuba City, WI 53807; KD6DNW to 741.5 Raven, SD 92102; R.Munoz 3130 5th Ave SD 92103; AA7GL to 10439 Caminito Banyon SD 92131; KD6IX in roster is KE6IX; KD6PRE to AB6ZH (upgraded to Extra) and wife Stelly-KE6DSM received her new call sign.

SAN DIEGO TRAFFIC

The San Diego Traffic Net (SDTN) is the oldest net that PARC operates and it now is in need of net members. In the past most of the traffic was spread out all over San Diego County with some concentration of traffic connected with the military dependents at Camp Pendleton. Fortunately at that time most of our net members were in the North County area.

Times have changed. We are now receiving a lot of traffic from Navy personnel aboard ships which is sent through the MARS system and then given to SDTN directly for delivery. Most of this traffic is to Navy dependents living in the South of San Diego County and we have very few net members checking into the net from the southern sections.

While it is true that North County net members can take the traffic and deliver it by the

autopatches, we would like to have more club members check into the net each evening (or just one evening a week) to see if there is anything in their calling area. Traffic is listed by the telephone prefix so look at your telephone book to see what prefixes you can call toll free ..or be brave and pick up the traffic and deliver it by autopatch. ===== HT A N T E N N A S =====

The following antenna gain measurements were made 8-4-85 by WA6QQQ & N6ELP. "E" = extended and "C" is collapsed. Gain was measured relative to an ICOM IC-2A stock antenna which of course really has a negative gain compared to a dipole.

| # | -Ant tested- | " oz | DB |
|--------------------------|---------------------|--------|-------|
| 1 | StubDuck,TunedAntCo | 4 1.1 | -0.2 |
| 2 | StubDuck, older mod | 4 1.1 | -1.6 |
| 3 | Larsen Short Cut | 11 1.8 | -0.6 |
| 4 | LarsenKUL Duckie | 8 1.4 | -2.7 |
| 5 | StockAnt TR-2600A | 7 0.8 | -3.3 |
| - Telescoping Antennas - | | | |
| 6E | Modublox SP-146SkyP | 43 3.3 | +12.1 |
| 6C | " " | 9 3.3 | -5.2 |
| 7E | AEA Hot Rod HR-1 | 41 1.8 | +11.7 |
| 7C | " " | 9 1.8 | -2.7 |
| 8E | SuperStickII,5/8th | 55 4.0 | +7.7 |
| 8C | " " | 10 4.0 | -4.2 |

As you can easily see, telescoping antennas can make a 1watt HT act like a 16watt HT and a 5watt HT like an 80watt HT all at modest price! (Note: 12Db/3Db = 4 times of doubling the power. Hence, (1)2w, (2)4w, (3)8w, & (4)16w.

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Post office IRC's can be redeemed: before 2-17-75(0c), 2-17-75/5-28-78(18c), 5-29-78/12-31-80(20c), 1-1-81/2-16-88(30c), 2-17-85/4-3-88(37c), 4-4-88/2-2-91(40c) and 2-3-91/present(50c). They do not cash in illegible or IRC's without date stamps. New IRC's have amount stamped on them and can be redeemed for 1c less than you paid for them.

OFFICIAL CLUB BADGES: see John Tentor, W6OLQ, mtgs or 672-3891. John is so efficient at making these badges that they only cost club members \$1 and he does them between

ping-pong matches while plotting on his HP printer.

INTERFERENCE: NEVER REACT ON THE AIR TO JAMMING! In fact, we strongly suggest not responding directly or indirectly to any kind of deliberate interference or obscenity, with the exception of a repeater operator turning off the machine in certain required situations. Remember, we ask you NOT TO CONTACT THE FCC, but to refer serious ongoing problems to PARC.

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or
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NU6L

REPEATERS
WB6IQS W9FQN

ENCODE-DECODE: PARC believes that all new repeaters should have ENCODE-DECODE. For example our 449.425, and 147.075 require a PL tone to make the repeater work. The repeater strips off the 107.2Hz at the repeater receiver and then generates a new 107.2Hz PL tone and puts it on the transmitter. This way we know that the PL tone coming from the repeater is within amateur specifications. Use ENCODE-DECODE for these two repeaters.

The 146.73 repeater requires no PL to get into the transmitter but there is a PL of 107.2Hz on its output. You will need a 107.2Hz PL to use the autopatch so use ENCODE-DECODE for this repeater ..just like 449.425 & 147.075.

The 147.13 repeater is different. It requires 107.2Hz PL to get into it and then it passes YOUR PL through the receiver and puts it on the transmitter. Hence, there is a PL on the output of 147.13 but it is your PL and not the repeater's PL. Garbage in. Garbage out. This spring we will strip off the PL at the receiver and put PARC's 107.2 PL on the transmitter. CAUTION: if you put your xcvr on PL ENCODE-DECODE for autopatches you are in TROUBLE. You will not hear the repeater when the telephone is answered because there is no PL passing thru to the transmitter since the audio came off of a link receiver! For 147.13 use ENCODE only for the present.

The 146.7 RTTY repeater requires an RTTY signal plus a 107.2Hz PL to activate it. In the future we hope to alternate between having ENCODE-DECODE on this repeater and removing it ..but for the present it requires a PL. We will do some experimenting with ENCODE-DECODE this spring to see how it affects the RTTY repeater in LA. =SK=

For the past several months the 146.73 repeater has been experiencing 5-20 minutes of kerchunking

(beeping) with bits of audio sometimes sneaking through. We think that Mike-AB6QT has located the source as being a repeater, AB6UQ/R, up near Bloomington, CA, on a frequency of 146.14(+) which is 10kc higher than the input to our 146.73 (147.13) repeater. AB6UQ/R apparently is uncoordinated and also is not observing the 15kc channel spacing for this part of the spectrum. A letter has been sent to AB6UQ and to Tasma with information about the situation. =SK=

If there is some interest, we might have a program where the technical people each give a 10minute discussion of: ENCODE, DECODE, FM MODULATION, INTERMODULATION, DISTORTION, REPEATER CONTROLS, etc. Please contact ART-KC6UQH PARC's program chairman to let him know your views on having short discussions like this. Possibly you have some suggested short topics that could be added to the above list. =SK=

Over a period of several weeks temperature gauges at the site indicate that the new building follows the outside temperature as listed:

| 1-02-94 | aveTemp | min. | max. | max-min |
|---------|---------|-------|------|---------|
| Inside | 58.7 | 43.5 | 73.9 | +30.4 |
| Outside | 50.3 | 31.5 | 69.1 | +37.6 |
| (diff) | +8.4 | +12.0 | +4.8 | -7.2 |

| 1-08-94 | aveTemp | min. | max. | max-min |
|---------|---------|-------|------|---------|
| Inside | 64.4 | 47.8 | 81.0 | +33.2 |
| Outside | 53.6 | 33.6 | 73.6 | +40.0 |
| (diff) | 10.8 | +14.2 | +7.4 | -6.8 |

| 1-14-94 | aveTemp | min. | max. | max-min |
|---------|---------|-------|------|---------|
| Inside | 60.0 | 49.5 | 70.5 | 21.0 |
| Outside | 51.5 | -35.4 | 67.5 | 32.1 |
| (diff) | 8.5 | +14.2 | 3.0 | -11.1 |

It would appear that the inside "max-min" temp is the most important and it looks as if closing the lower vent reduced that number. We will soon check what happens when the upper vent is also closed.

The inside temperature is measured five feet from the floor and on one of the side walls three feet from the nearest enclosed

repeater. There is one open ventilator near the floor and one open near the ceiling on the opposite side which might need to be closed during the winter months. One of our next projects will be to measure the temperature inside of the repeaters to see how much they change in temperature. It needs to be remembered that one of the enemies of electronic gear and filters is the change in temperature. =SK=

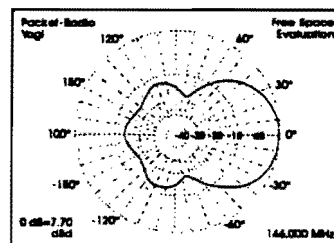
Swiech
communication
systems

Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd



H-Plane beamwidth 60 deg
Bandwidth 144.5-147.5 MHz
SWR < 1.7 at Band Edge
Impedance 50 ohm
Silver Plated Teflon SO-239
Maximum Power 500 Watts
Chemfilm Treatment On Brackets
Balanced Matching System
Two Part RTV Potting
Black Delrin Insulators



(619) 748-2286
Gene Swiech, WB9COY

MIKE-KD6VHI, after some research, indicates our large 1,680 AHR batteries (2 rows of 7 cells each for 3,360 AHR total) have the following voltage measurements:

| | V/Cell | 6-cell | 7-cell |
|-------------------|--------|--------|--------|
| Maximum Float | 2.18 | 13.08 | 15.26 |
| Nominal Float | 2.17 | 13.02 | 15.19 |
| Minimum Float | 2.15 | 12.90 | 15.05 |
| Average Discharge | 1.93 | 11.58 | 13.51 |
| Lowest Discharge | 1.75 | 10.50 | 12.25 |

The challenge is to be able to maintain the float charge within our 0.03 volt window (2.18-2.15) while we are not on the mountain. Many of us have troubles measuring 1/10th of a volt let alone 1/100th of a volt which is needed to maintain our batteries and their 20 year life which is over half gone already. Dave-KD6EBY checks our batteries almost every week. =SK=

***** A U T O P A T C H E S *****
WB6FMT ***** W9FQN

NEW MEMBERS should request an AUTOPATCH INFORMATION SHEET for the five 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. =SK=

JERRY-WB6FMT is moving along nicely on the second phase of the autopatch system. He has finished the new system interface board and the first of five repeater interface boards. The new boards will allow unlimited time for 911 calls without using the "A" update and will feature a busy signal to indicate that the autopatch is being used on another repeater ..which of course you could check on now by listening to our other four repeaters before using the autopatch.

An input port will be added for more direct control operator control and "lock-out" along with a port for computer processing of the call being made so that you don't have to look up what section of the county the phone number is in. There will also be the possibility of the same access code for all repeaters. Plans

are still to have the second phase system in operation before June. Jerry and Stan-W9FQN will stuff the second generation boards in February when John gets the remaining circuit boards etched.

Jerry has also built a small portable test box where each of the components can be plugged in and have all phases tested: timer, audio, control, 911, etc. When Jerry is finished we will have one extra board for substitution and an extra system interface board so that in the advent of problems, a tech can substitute boards and bring the bad one back for fixing. =SK=

The MIDDLE autopatch outlet in Mira Mesa had a record number of calls (78) during November and we are happy to see this patch being used more. We are unhappy that 21 of the calls were longer than 60 seconds. If you talk longer than 60 seconds, you are probably not using the patch for its intended purpose. This middle patch averages about 55 calls per month.

The LOWER La Mesa patch has been running around 37 calls per month but this last month we made 58 calls which is a record for this patch.

The UPPER outlet in Vista serviced 120 calls with 30 of them being over the 60 second limit that PARC requests that you observe. The average is about 160 calls per month from the upper patch. The record for this patch is 210 calls in one month.

Remember that the autopatches are for emergency traffic although PARC does recognize that if you don't use them for other types of =brief= traffic that you won't know how to use them during emergencies. So please do use the patches but make sure that your conversations are short, to the point, and non-business related. =SK=

If you divide the money paid for telephone service by the number of calls made per month, it turns out to be about 12-cents a call. =SK=

QUESTION: When I attempt an autopatch on 147.13, I do everything correctly but the repeater goes dead with no sound even though my xcvr shows a strong carrier on the frequency.

ANSWER: Re-read what was said under REPEATERS about the 147.13 repeater PL ENCODE-DECODE. =SK=

The Fishing Hole

at Occaside Swap Meet
No 3. Row 14, Space 1&2

QRZ QRZ
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**W7HKI Larry
W7HKL Maxine**

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FORESAIL mmmmmmmmmmmmmmmmm

Masts R 4 antennas!

Please, No Dingies!

Phone or send ads to W9FQN, (C Editor's address) B4 20th of month with ur NAME, CALL, Ph #, & CITY. Personal ads R FREE 2 members. All others cost 25c/column line (36spaces). =SK=

NOTE: de WB6IQS to the ham that bought my Tempo HT ..I found the "lost" leather case for it. Contact me at 724-8380.

(01-14) RS 10m HTX-100 xcvr; Astron 12A pwr supply; RS FS SWR tester #21-523; NYE CW key #320-001; Solarcon base ant 17' 11-10-17m; Flytcraft base ant 8' 10m; Mobile Hustler ant w/3-mounts 10m all for \$230+: Carl N6HLY 487-6272 R.Barnyard.

(01-12) FT-101ZD MRK III with FV-101DM digital VFO 10-160m digital readout w/memories excond \$475: Wayne W6RWV 724 0777 Vista.

(01-08) Heathkit HW-101 80-10m xcvr w/HP23 pwr sup & mic new finals aligned & adjusted \$235 or best offer: David N9PVF/ag 675 2249 Poway.

(01-06) ICOM 229H xcvr 50w mobile + ant never used \$330; 7mo old seldom used JVC Karaoke w/disc player and remote control \$499 sell \$350: Tito KD6SYE 575 5342 ImpBeach.

(01-06) Heath SB-610 monitor scope \$60; B&W low pass filter (FL10/1500/70) & 15m balun \$35ea; plexiglass dust cover 4 Bencher paddle \$12: Duane AA6EE 789 3674 Ramona.

STOLEN Dec22nd: Yeasu FT-2400 #20160533; Cobra 40ch CB; Realistic 40ch CB HT: Clint KD6JXW 758 3312 Vista

STOLEN Dec14th: Alinco DR-570T #0002163, RCI 2950 10m xcvr #921409, and M-300 10m amplifier: Dan KC6PRW 742 1642 or 4325.

(12-16) Yeasu FT-747 w/FM/mic/man ex \$550; Multi-2000 multimode VHF radio w/mic gud \$150; MFJ 901 ant versa-tuner HF 300w \$35; Heathkit HA-20 6m linear amp 10in/125w out gud \$125; Wavetek 3000-200 RF SigGen 1-512MHz, digital

50ohm step atten .1micV-1V CW/AM mod 400Hz or 1KHz mod, FM dev meter, needs work \$350; vacuum pump 0-30in Hg \$100; IBM PC/XT turbo 2-360k floppies 10MB HD, prt port, CGA card & color monitor, software ex \$200; same but Hercules video card \$125; 2ea xerox D80 daisywheel printers new programmable \$75 ea; Okidata m83A wide carriage print ex \$60; Epson MX100 wide carriage printer Graftrax \$75; Link 220 dumb terminal \$25; Daewoo 220 dumb terminal \$25; 2ea uninterruptible pwr supplies, batteries gud but need repair 120VAC @ 4.5A \$25ea: Eric KB6EP0 day 545 7068 eve + wkends 011 5266 820283. Need room to sit down.

(12-16) Kenwood Ts-430S xcvr W/ FM-430 & CW filter mint \$650; PS-430 AT-250 & SP-430 also available: Duane AA6EE 789-3674 Ramona

~~(12-14) SWAN 100MXA xcvr w/PSU-5C pwr \$295; JUKI 6100 Letter Quality printer immaculate w/ribbons \$50; B111 N6COU 758 7163 Ocsd.~~

1994 CALLBOOKS: N. American \$24.95; International \$24.95. Both \$48.95. ARRL Handbook \$23.95. Bencher Paddles \$59.95+Tax. Call Duane AA6EE 789-3674

To sell old radios and related items, write Vintage Radios Wanted, Box 214, Des Plaines, IL 60016, or to sell old or odd television sets write collector, Dan Gustafson at GSA Advertising, 211 E. Ontario St., 1750, Chicago, IL 60611. Enclosing a photo or description with names and model numbers and an addressed, stamped envelope for a free appraisal, reply or cash offer.

(12-01) Yaesu FRG-7 rcvr gud cond orig carton w/YH-55 headphones, bat & dust cover \$125: Dave WA6HQM 753 2605 (Merry Christmas & a Happy New Year to you too Dave -Ed)

(11-30) Kenwood TS-430S xcvr, SP430 spkr, AT130 tuner, MC60 desk mike, PS30 hvyduty PS, MB430 mobile bracket all used <50hrs, firm \$750: Dick W6OML 909 672 3871.

(10-16) Tony-K3UKW (east coast) has a list of used gear. Contact W9FQN with yellow box at meetings to

see the list or 749-0276.

(7-8) Commodore C-64 computer complete ex cond monitor 2-drives 2-printers 80col card mem-exp card software RTTY interface, inst books all \$200: Henry N6JWF 945 1247 Ocsd. GOOD WAY TO GET ON RTTY AND RUN CODE!

6-18) Drake w4 wattmeter .2-2kw scale \$55; TENTEC squeez keyer \$55; battery charger D-A-C cost \$30 now \$9; mobile 3.5" cone spkr \$8; SCANNER

**Jennifer A. Thieme
KM6WG**

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Vista, California 92083**

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**Loyal M. Hanson - W9WV
Fallbrook, California**

R/S mobile + 110vac w/mt bracket w/out of area xtals UHF/VHF \$20; E Voice Mic 674 W/stand & cord \$25: Larry W7HKI 439 5855 0csd.

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

***** WANTED *****

"a few good men" or "women"

(01-19) Disk programs for MFJ-1278 multimode to be used in club project: John WB6IQS 724 8380 Vista.

(01-05) To copy tech manuals for Kenwood TH21AT and Alinco ELH-230G 2m linear amp: Mike KA1VFF 430 2845 0csd.

(01-05) Share booth at SD ARRL SW Div Conv in Aug.94 (Old Callbooks and ARRL Handbooks): Duane AA6EE 789 3674 Ramona.

(12-13) Small oscilloscope for use at the repeater site to check audio levels: control, autopatch, RX/TX, etc: W9FQN 749 0276.

(12-12) DC Current probe for Tektronics AM-503 and/or scope DC to 50MHz: Stan W9FQN 749 0276 VillyCtr.

(12-10) Baja Ham, XE2XU, is looking for a 12v HF radio for 80-40-20. Possibly early Atlas: Nash W6HCD 728 3574 Bonsall.

(12-6) To copy manuals for Zenith laptops ZWL-0200-02 & ZWL-184-97. Also need a hard disk drive for the #97: Mike AB6QT 742 1573 Palomar Mt.

AB6XK, formerly KC6NE has opened (Jan22nd) a VINTAGE radio store in Laguna Niguel with old time radios and used gear (ie SP-600, Collins, etc.) ..plus assorted goodies. More info on this as it becomes available.

***** YEARS AGO *****
KI6JMK*****W9FQN

(2-89)(5YRS AGOGO) Program by Brian-KF6C on VLV-HF receiver, coffee by Mac-NH5EW, TNX to Frank-WB6HFE for emergency room in Carlsbad Safety Center, 147.135 (now 147.13) off the air for two weeks because of "mouse" damage.

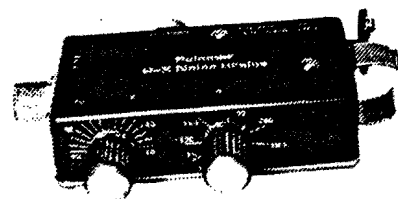
John Martin, W6SE, wrote about the passing of Fred Elser, KH6CZ: "I noticed in the QST Silent Keys column that Fred Elser had passed away. As you know, he was the real founder of P(A)RC. I first knew of him when he was 3AA, later KA3AA, out in the Philippines. During the Twenties he did a number of articles for QST, among which there was an account of his trip through Europe in a model T Ford. He carried ham equipment with him. Later, he attended and graduated from Massachusetts Institute of Technology, after which he came to Carlsbad where his family had a considerable investment. It was there he lived when he was so instrumental in the founding of P(A)RC. At that time his call was W6GVU. He left our area in the late thirties and followed a career in the army, occasionally hamming from remote parts of the world."

(2-69)(25YRS AGOGO) Meetings were still at the South Oceanside High School on Tuesdays. President was Ralph Crossman, K6HAV, later SCOPE Editor for eons. He was nearly flooded out by heavy rains at his old QTH in the Vista Lowlands. The club ran a nightly net on 3920kc. de JACK-KI6JM.

(1-64)(30YRS AGOGO) In January 1964, the Club elected new officers, there not having been enough members in attendance at the December meeting to do it then. All four of the previous year's officers had resigned in June 1963. The president's final message in the June 1963 SCOPE spoke of the efforts to get the Club incorporated, not yet accomplished. (We finally did it in 1982. -KI6JM Club historian) The May 1982 SCOPE is the first to incorporate the "INC." after the Club name. (Pun intended. -KI6JM) In 1963 and 1964, meetings were held in the South Oceanside School on Tuesdays. The June 1963 newsletter said that attendance had been running from 65 to 80 people! There was concern around this time that the FCC was about to start charging

fees for amateur licenses. The city of Santa Barbara had started a lawsuit to declare amateur radio operation by certain hams to be a public nuisance. Hopes were high that the City would lose. Bill Jago, W6NWI, put up a 5-element 20 meter beam on a 56" (foot?) boom. (He is now K7MO in Merlin, Oregon. He just sent us some material for our history files. de JACK-KI6JM) (Note: this item was not available for the January SCOPE. -Ed.)

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\$-PRES QRM Pg1
818 area code, another for the 310 code was on 7.268. There were at least a couple of nets for every area code in the disaster area. Each had two or three hams within the area code area who could make a local call to determine status.

When the net Control Station called for check-ins you gave your call. When asked you gave the important information, your name, call, the name of the party to be called, telephone number, and the name of the inquiring party. When there were about ten calls to be made, that operator would start making calls and then check back in with the information desired. In most cases I was lucky: the call was completed and everyone was OK. In some cases phone lines were down in that part of the area code so I was out of luck; however, when you could call someone back and tell them that their loved ones were OK it was a real upper!

New Subject: ATV Repeater. SOON. The Board approved the installation of an Amateur TV Repeater at our site which will give good coverage throughout SD County. for those of you who attended our last meeting, you saw a demonstration of ATV and I hope you will pursue this aspect of our hobby. Financial support for procurement of components will be greatly appreciated. If you care to donate, send your check to PARC, marked for the ATV Fund. We hope to have a temporary installation up and running by the end of February.

73 de Harry

\$-de QUAKES Pg1
the "power" of earthquakes.

The Richter Scale is a logarithmic scale and when you go from a R6 to an R7 you are indicating that the amplitude of the disturbance has increased 10 times. If you go from R6 to R8 the amplitude of the disturbance has increased 100 times (10x10). Unfortunately some people use the word power with the above

description when "power" refers to the amount of work done per unit time and probably should not be used in connection with the Richter Scale.

The energy of a quake in going from R6 to R7 is 30 times the energy of an R6. Hence going from R6 to R8 amounts to 900 times the energy of an R6 quake (30x30).

When earthquakes are compared it needs to be remembered that the energy of the quake dies out at a rate determined by the inverse square law of the distance with a factor for the type of quake and the ground which the wave is traveling through.

The Northridge earthquake was only 6.6 which is not a big quake. At 4:31am Monday morning the quake took the lives of 46 (1-19), displaced 15,000 people, and caused 30 billion dollars in damage. We were lucky it was dark. Imagine the deaths and injured we would have sustained if it were at high traffic hours or shopping hours. Remember all the stores damaged and destroyed as seen on TV? The people of Northridge were lucky.

THIS WAS NOT THE BIG QUAKE. THE BIG QUAKE IS STILL TO COME. Lets hope that we as amateurs are prepared for the BIG ONE. It is coming and the odds are that it will come during our lifetimes.

***** CLUB TOP 20 *****

| | | - DXCC and W.A.S. - | | | |
|----|--------|---------------------|------------------|--------|----|
| | | CALL | WORKED/CONFIRMED | STATES | |
| 1 | WA6Y00 | 318 | 316 Mixed | 50 | 50 |
| 2 | KA5Q | 318 | 316 Mixed | 50 | 10 |
| 3 | WA6Y00 | 314 | 313 Phone | 50 | 50 |
| 4 | AC6V | 303 | 299 Phone | 50 | 50 |
| 5 | KA5Q | 305 | 280 CW | 50 | 5 |
| 6 | WA6Y00 | 234 | 233 CW | | |
| 7 | WA6HYB | 202 | 194 CW | 50 | 50 |
| 8 | AA6EE | 200 | 180 | 50 | 50 |
| 9 | WB6NBU | 181(4) | 145 | 50 | 50 |
| 10 | KI6JM | 193 | 136 | | |
| 11 | AC6V | 134 | 134 CW | 50 | 50 |
| 12 | WA6Y00 | 120 | 120 RTTY | | |
| 13 | N6ELP | 138 | 105 RTTY(6) | | |
| 14 | KC6QXU | 95 | 86(2) | 50 | 50 |
| 15 | W6EYP | 37 | 13(5) | 50 | 24 |
| 16 | AC6V | 56(3) | | 50(3) | 50 |

17 AA6TR 1(1) CW
18 W9FQN 1 Phone 1
19
20
(1)1watt, (2)10m only, (3)8watts, (4)120w/AEA isoloop in attic, (5)10-20m, dipoles 12' off gnd, (6)RTTY all 20m.

UR Editor is slowly being pushed off of the ladder!

Please send in your WORKED-CONFIRMED and STATES to the editor for publication so we can see who

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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.

Edward Ross, N6GZI
542-1405

Antenna Specialties

the top 20 are in the club. Break them down by phone/CW/Mixed if at all possible. Pse send corrections to ur Editor -W9FQN.

***** E X P E R T S *****
***** "Loco and otherwise" *****

The following club members have considerable knowledge in the areas listed. If you have questions, please feel free to contact them:

FCC 610 forms: KB6NMK, W9FQN, AA6OM
Accounting\$:KM6WG
Airplanes, gliders:KC6YOX
Airplanes, flying:WB6FMT
Airplanes, model:N6UW, WB6FMT
Alligators:AA6TR
AMTOR:WA6Y00
Antennas:WB9COY, KB6MCU
Antennas, boating:KC6UQH
ARES:K7DCG, WA6Y00
ARRL:WA6Y00
ATV:KB6MCU
Autopatches:WB6FMT, W9FQN
Badges, PARC:W60LQ
Beams, HF:N6KI, KB6MCU
Beams, VHF/UHF\$:WB9COY, KB6MCU
BilingualEd:KA6FPS
Boating:W6QCA, AA6TR, W6EYP
Camping:KM6MW, KC6TYT
Cars (old):W6QCA
China:WA6Y00
Climbing(rock/tower): KI6TG, N6GZI
KD6VHI, KI6IM, W9FQN
Coast Guard Aux:N6TEP
Computers, IBM: WB9RKN, W6QCA, N6ZUC
Computers, C-64:WD6FWE
Computer, TRS-80, Mod4:W9FQN
DeskTopPublishing:KC6CZO
DirectionFinding: KB6NMK, W9FQN, N6UW
DXing, CW:KA5Q, AA6TR
DXing, SSB:WA6Y00, KA5Q, N6KI
DXing, RTTY:WA6Y00
Electrical\$:NU6L, N6SWZ
Fishing\$:(C Ad)....W7HKI, W7HKL
Fire Patrols:W6HCD
Flying Samaritans:W6HCD
FM Deviation Cks:AB6LY, WB6FMT
German:N6TEP
Graphics:KB6NMK
Gliders:KC6YOX
Heathkits:WB6IQS
Horses:KF6QH
Interference:KB6MCU, N6GZI
Korea:WA6Y00, W9FQN, N6IE
Law, US Patent\$:(C Ad)....W9WV

Lighting\$:AA6TR
Marine Electronics\$:KC6UQH
Membership PARC:KC6WAN, W9FQN
Mexican License:W9FQN
Mexico:W9FQN, KA6FPS
Mexico, Baja:WB6PKK
Microwave:N6IZW
Mobile noise filters:KI6RF
Nets PARC:W9FQN
Nets, Traffic: N6RVO, N6TJT, W9FQN
Pacific Crest Trail: ...KF6QH, W9FQN
Packet:KB5MU, N6ZUC
Ping-pong:W60LQ, W9FQN, KA6FPS
Printed CKT Boards: WB6IQS, WB6FMT
QRP (low pwr CW):AA6TR
Racquet Ball: ...KI6TG, N6KI, WB9COY
RACES:KM6MW
Radio Classes:KB6MCU
Radio Repair\$:(C Ad)....ND6W
Real Estate\$: (C Ad) wife of W3ARU
Repeaters: WB6IQS, AB6QT, KC6UQH, WB6FMT
RF Interference: KB6MCU, N6GZI, WB6IQS
RTTY:WA6Y00, N6TEP
Satellites:KB5MU, WB9RKN
Spain:KA6FPS, N6QDB, N6YYZ
Spanish:W6HCD, KA6FPS
Spanish\$:(C Ad)....KD6HPQ
SwapmeetPARC:AB6LY, KD6IVF
Swapmeets:N6KI, WB9COY, WB6IQS
Tennis: NU6L, W9FQN, KA6FPS, WA6IPF
Ten-Ten Club:KC6QXU, WA6HQM
Test Equipment: ND6W, WB6IQS, AB6LY
Towers\$:(C Ad)....N6GZI
Used Equipment:N6KI, AA6EE
VE Testing:AA6OM, KB5MU
Tubes:WA6HQM, W9FQN
MARS-Army:WA6Y00, WH6CH
MARS-Navy:KC6CZO
YL's(Young Ladies):N6ELP

\$ = they operate a business

If these people do not know the answers to your questions, they certainly can "tell you where to go."

If you would like to have other categories listed or your call ADDED to or DROPPED from the list, pse contact ur editor. Suggested names will also be accepted.

***** F U N N I E S *****

--- der dis-klammer ---

RTTY here is fur ein gerfingerpoken. Please be patient while i am gerverken das machine as ein gerfingerpoken is nicht yet

science, please excuse sprung springwerk, typos, and misspilled swords. Thank-you. de der kc6uqh.

Ask JOE-N6YMD or DAVID-KC6YSO about the cleanest (pun intended) Pussy Cat story you ever heard. (I'm still laughing after 2-months -Ed)

ACHTUNG

Fur usen das vocalboosten splattenouten keepen der gainknoben to placen wer das sittentunen das boosten forcenmoten mixen launder-boomers evesdroppen ist nicht disturben mitt fuzzenharen. (de KB6MCU)

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Please give your money to Ralph-KC6WAN at the next club meeting or send it to him at the club's address. PARC gets to keep \$2 of renewals and \$5 of new memberships when handled by the club.



SK ##### SK #####SK

We are sorry to report the passing of Ralph-KC6WAN's mother on January 19th. Ralph is PARC's membership Chairman & Giant Computer operato
SK ##### SK #####SK

LETTERS to the EDITOR

The editor and the board reserve the right to publish & edit all letters.

(JOHN-KD6PZE) ..first, I vote for keeping pizza orders and like "business" calls off the phone patch. I do not wish to hear that being allowed except during public service events or emergency situations where food needs to be sent. I think it's busy enough without it. (250-300 calls/mo/4 repeaters -Ed)

Second, I'm in favor of starting a policy (habit) of saving the 146.73 repeter as a contact (calling) repeater. I think it's nice to have a rather quiet repeater to listen to for calls. It's sometimes annoying to have to listen to a chatty repeater while waiting to hear a contact from friends. With the repeater as a calling (repeater) it's much more pleasant to get a call and move off somewhere else. Existing nets could possibly be moved to another frequency during their traditional times to leave the call repeater open. =SK=

(de TITO-KD6SYE) ..thanks for the PARC Code Practice Net. I've enjoyed the practice ..even though I now have my Extra Class ..I never imagined I could copy 20wpm ..and the net keeps me practicing ..and hope to hear more about Todd-KB6QDZ who walked the Pacific Coast Trail last Fall. =SK=

(de MIKE-AB6QT) 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 (i.e. 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 (or quick -Ed) keying, where the conversation goes from one person to the next, with only enough carrier drop to reset the time-out-timer (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 time-out-timers is to discourage lengthy keydowns by one person, thereby preventing the use of the repeater by someone with an emergency (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 5 minutes, and reset 3 times in order to do so. This is not only inconsiderate of others, it is also selfish. I heard one ham talk for 6 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 the 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. =SK=

(de CHARLES-N6TEP) As you may know, I have taken over the net manager's job from Joe-N6RV0 for the San Diego County Traffic Net - to tell you the truth, I was drafted, but since I am on the net almost every night, I don't mind collecting the statistics and making a monthly report.

I now find out that this is really not all there is to it. It is also my job to find and assign net control operators where necessary and find substitutes for those unable to take their net on the assigned night. This involves having reliable alternates, which we are theoretically supposed to have. But as I now discovered, many are no longer aware of that responsibility or we don't even have alternates for some evenings.

To run a well-organized operation, it becomes mandatory for us (now me) to recruit members for those jobs, but short of simply calling the membership down the list and beg, I don't have a good means of communication to find the right people. The few regulars that are on all the time are already overloaded. We need some new blood, or just pack in the idea of a traffic net for lack of participation. For a club that has the facilities and the membership numbers we have, this would be a crying shame!

Another subject is SCNV liaison. Practically nobody can reach SCNV -even Bernice=N6WQR, can't all the time, depending on propagation or other conditions, such as QRM, etc. KT6A, the San Diego Coordinator for the net, to whom I report monthly, tells me that most repeater organizations North of here have problems with letting their repeaters be used for traffic, because their membership selfishly objects to the curtailment of "rag chewing" time that might involve. They "own" those machines and apparently have no sense of public service.

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 |

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 send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

Catalina, the one repeater we can all reach easily and which is also eminently accessible to LA, is such a case. Is there any way we can "shame" such people into realizing that amateur radio privileges are just that and not a "right" to exclude or impede others from using the frequency and the equipment for the good of the community?

As far as our internal problem of recruitment of operators is concerned, can we devote some space

in the SCOPE to the problem? (The SCOPE started addressing the problem in the January issue and will continue to do so -Ed)

***** WORK PARTIES *****

If you are on a work party, make sure that it is reported to the editor.

(12-?) MIKE-AB6QT made some adjustments in repeater audio levels for the autopatches and had to walk into the site because of the snow.

(01-02) MIKE-AB6QT made some adjustments in control audio levels for the 146.73 repeater.

(01-10) JERRY-WB6FMT completed the prototype of the first of five repeater autopatch interface boards along with the first system interface distribution board. Jerry is making one extra of everything so that non-techs can substitute boards to locate problems and then bring the faulty board off the mountain for repair.

SCOPE

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ON THE 2ND WED.- 9TH

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

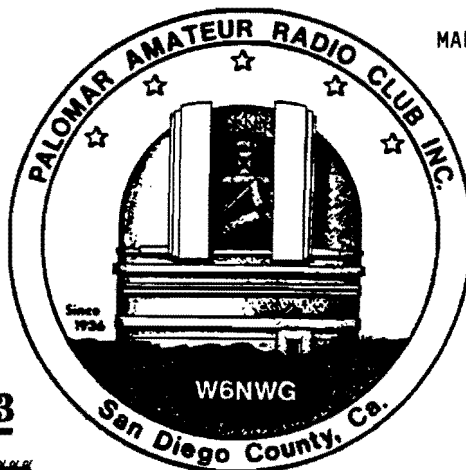
W6NWG W6NWG W6NWG W6NWG

Scope

W6NWG

Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073



MARCH ***** 1994 ** 59 YEARS OLD

Volume XX, Number 03

Published monthly by PARC

an ARRL Special Service Club

Membership \$12including \$3for SCOPE
Coffee 7:00pm & Meeting at 7:30 pm
Carlsbad Safety Center(CSC),Palomar
Airport Rd.to north on Camino Real,
east on Faraday .25 mi,left to CSC,
ThomasBro.Pg.14F6. Talk-in 146.730.

*** E L M E R S *** (call for info)
CARDIFF, . Duane-WB6R,753-4821
CHULA VISTA, Steve-N6RUV,422-4415
ESCONDIDO *** Harry-WA6Y00,743-4212

*** PALOMAR AMATEUR RC PRESIDENT
La MESA, . Roger-N6UW,697-6025
LAKESIDE, . Mac-WB6GXR,561-2211
RAMONA, . Vern-AA6UU,789-3070
SAN DIEGO, . Dennis-N6KI,271-6079
\$AN MARCO\$ ** Ralph-KC6WAN,727-7415

*** PARC MEMBERSHIP CHAIRMAN
VISTA, . . . Jack-KI6JM,598-0420
SAN MARCOS, Rusty-AA6OM,747-5872

(Head PARC VE testing program)

Prospective amateurs ONLY can call

1-800-32-NEW-HAM @ the ARRL Hdq

8AM-5PM ET M-F for information.

I N S I D E :

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Pg.12 Application Form, Addr.Label

OPEN REPEATERS / CLOSED AUTOPATCHES
PARC FREQUENCIES USED:

145.050 *PacketNode,W6NWG/PALMAR **
145.520s,National Simplex Frequency
146.535s,Palomar Amateur RC Simplex
2m Simplex Emergency Portable Rpt.
146.175+, PATCH,PLed,Fallbrk,WA6IPD
146.430R, ATV Intercom ReceiverPmt
146.700-, *RTTY, PLed,(IN = OUT) **
146.730-, *PATCH,PLed,Palomar Mt.**
147.075+, *PATCH,PLed,Palomar Mt.**
147.130+, *PATCH,PLed,Palomar Mt.**
224.900-, *PL,Pmt,220 ClubSD,WD6HFR
434.000R, ATV Rec.Emergency Pal.Mt
METROLINK,*Pmt Pkt link,9600baud **
446.000s, NationalSimplexFrequency
449.425-, *PATCH,PLed,Palomar Mt.**
919.250R, ATV Picture Receive Pmt
1241.25T, ATV Picture Transmit Pmt
*Rptrs/Patches cover 2000sq-mi SDCo
WB6FMT-VSTA;WV6Z-MMSA;N6IZW-LMSA
** = W6NWG, PARC, trustee, Ron-WI6B
(107.2 Hz used for all PL's)
ATV project on the air in March '94

##-SK-#####-SK-##

- N 6 T J T -

CHUCK KRAMARICH

passed away January 22nd.#

Chuck was co-chairman of

PARC's evening traffic

net and served as one of

the main communicators

at the Mira Mar air show.#

He was well known by

most amateurs in North

County & will be missed

by all who knew him.

##-SK-#####-SK-##

C A L E N D A R

Mar 2 Wed. Palomar ARC Club Meeting
Mar10 Thur. PARC 7pm Board Meeting
Mar12 Saturday PARC VE Carlsbad SC
Mar25 DEADLINE FOR SCOPE ARTICLES
Mar29 SCOPE placed in mail at Vista

NEXT CLUB MEETING KC6UQH

Art McBride-KC6UQH, VP and
program chairman, has announced
that the March club meeting will be
a program by Rod, AC6V, and Mark,
AA6TR. They will talk on DXing and
QRP. Rod will cover topics on
antennas, propagation, techniques,
and myths. Mark will cover DXing
using C.W. Mark currently works QRP
mobile with a side key and 2 watts
mobile on his way to and from work.

SHOW & TELL: Talk to Art-
KC6UQH B4 the meeting to reserve
time for UR S&T item(s).

- A T V -

KB6MCU

BILL-KB6MCU has announced that
the amateur television (ATV) pro-
ject is off and running. He is
working on the "intercom" receiver
on 146.43 and has bought about
\$1,350 worth of parts already for
use in the project. An inspection
tour of the site was made 2-7-94 by
ART-KC6UQH, BILL-KB6MCU, GENE-
WB6COY, and MIKE-WA6SVT to locate
space in the buildings and on the
tower for the project.

One fund started with \$2,000
in it and another \$300 was recently
donated to it. This first fund
started with a donation from Bill,
and SYBIL-W6GIC is serving as its
treasurer. Cont.pg.6.

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Edward Ross, N6GZI
542-1405

Antenna Specialties

BOARD MEMBERS present:

President: Harry Hodges, WA6Y00
VP President: Art Mc Bride, KC6UQH
Secretary: Nash Williams, W6HCD
RTechnical: John Kuivinen, WB6IQS
SCOPE/etc: Stan Rohrer, W9FQN
Membership: Ralph Powell, KC6WAN
Board Member: Rick Zimmermann, KC6LV
Absent: Treas. KM6WG & Member AB6QT
- also present -

Training/FD/ATV: Bill Smith, KB6MCU
OTHERS: Sybil-W6GIC, Mike-KD6VHI,
Gene-WB6COY(ATV), & Ken-N6ALA.

NEWSLETTER HELPERS FEB. SCOPE

KI6JM, Jack Hanthorn, Refreshments
KC6WAN, Ralph Powell, printing, labels
WA6Y00, . Harry Hodges, . Staples
W6TFB, . Lloyd Hunt, . folding
KB6YHZ, . Art Nye, . folding
KD6RFM, Emilio Spelgatti, folding
N6UWW, . Ellen Utschig, labels
KB6YHY, . Anita Nye, . labels
KI6JM, Jack Hanthorn, folding, Refresh
W9FQN, Stan Rohrer, Editor, PO Forms

The Fold-Staple-Multilate-The-SCOPE-group meets at Jack-KI6JM's QTH in Vista at 12:30pm and usually finishes about 2pm. We can always use more help. FSMTS day is almost always the Tuesday of the week before the club's 1st Wednesday club meeting. You receive one activity point for participating in the fun and games.

Club members are invited to attend Board meetings to observe the Board of Directors in action ..or non-action ..and receive one activity pt. for attending!

MOVED: DICK GEARHART-KC6QBD who has helped us many times with the mailing of the SCOPE (FSMTS) has moved to 6075 Moonrise Arc, Las Cruces, NM 88011. Dick and Lucy are living in their motorhome while their new home is being built. He hopes to be on 10m soon.

- SECONDS - (minutes?)

DISCUSSED: EquipBal \$2145, General \$3,598, PrePd \$2,960, PO \$120; programs; ATV test to KC6VEC's QTH, ATV fund #1 and #2; changed EPROMS in 146.73 and 147.075; Larry-AB6LY resigned position of CW net control; RTTY boards; training and March 28th test night; BECKY-KE6BUE and KD6YJB, Marvin's wife, GERRY, goodie table; and EARS auction.

APPROVED: \$500 from Equip Bal to ATV fund; new PARC badges in addition to the old ones; and \$10 for W6NWG TASMA membership.

Please contact one of the board members for more info. or see the secretary for written minutes.

LAST MEETING

In attendance were 107 members, 15 guests, for a total attendance of 122. PLEASE COME EARLY and help set up chairs.

We were very pleased to start out our 58th year as a club by having charter member Jack Cornell, W6MMO, from Fallbrook, at the meeting. We hope that Jack will stop by for our 60th anniversary bash. There are very few of the original 1936 group still around with the majority of them living in Fallbrook (it must must be those Fallbrook avocados -Ed).

Another good technical meeting with GENE-WB9COY presenting information on antennas, design, and construction with help from BILL-KB6MCU. Gene and Bill are also the ones who are deeply involved in the club's ATV project.

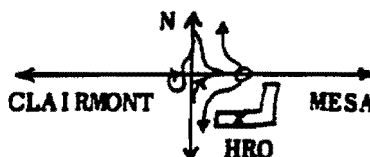
BECKY-KE6BUE and GERRY Jones (Assoc.) supervised the drink and goodie table with members bringing goodies: W6GIC, KE6BUE, N6TCB, KE6CDH, KD6ECD, KM6PY, KE6BGI, KE6BUE, and N6USR. Art-KB6YHZ and Anita-KB6YHY were absent because of illness.

BECKY-KE6BUE and GERRY have consented to take over the goodie table at club meetings and Art and Anita will continue with the coffee chores.

The club greatly appreciates the help given by these volunteers and the support of the goodie table by our members bringing in goodies from time to time and leaving a little donation to help the club pay for supplies. Surplus money is put into the equipment fund so it is put to good use.

The goodies were great and you were rewarded with "1" participation ticket each (not per cookie ..or twinkie)!

Are you involved in public service?



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PRESIDENTIAL QRM

WA6Y00

As this is being written (Feb 15), the 3Y0PI (Peter the First Island) DXpedition is starting to pack up preparatory to being lifted off the island by helicopters from a Russian icebreaker on the 17th or 18th. The logistics and cost for this operation are staggering, would you believe \$250,000? This is the number one most wanted country on any DXer's list. With over 60,000 QSOs in the log, that should change dramatically. To the 10 operators who pulled this off: Well Done! And to those who worked them, be generous when you send in your QSL card.

I had the opportunity to go on a mini-expedition last Friday. Bill Smith, KB6MCU, and I set up a portable HF/VHF station in the Quad at Fallbrook High School during lunch hour, to demonstrate to the students something about Ham Radio.

There was considerable interest and lots of questions. They were truly amazed that we could talk "to the other side of the world" with such a simple station (a rigid dipole at about 15 feet). The Swan radio, power supply, and tuner were donated to the club to be loaned to schools for their use. Three on the staff at Fallbrook have licenses and can supervise the equipment's use. If you have any equipment that you would care to donate, contact me or Frank, KI6YG.

VOLUNTEERS!!!! That's what Ham Radio is all about. We need you to volunteer a little of your time in many areas. If you can give an hour a week, there's lots you can do. We need folks to operate the CW practice net (M-F at 7pm). All you need is a simple computer, TNC, and a 2 Mtr radio. Also we need you to check in to the North County Traffic Net at 8pm on 146.73 to assist in moving messages to their destinations. Most of this traffic

is coming from servicemen and women overseas to their loved ones at home. It is easy to do and you may use the autopatch if the number is out of your area. Get involved!

Lastly, the ARRL SW Convention will be held in San Diego the last full weekend in August (26-28). Mark your calendars. If you need a registration form, contact me, Pat WA6MHZ or pick one up at HRO. It will be a great weekend!

73, Harry

MEMBERSHIP KC6WAN

de Ralph, Vista 727-7415

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet should send to me at the club's address or to W9FQN a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same (see Editor's address). =SK=

ASSOCIATE members who have received their new calls should

report them to me along with their expiration dates ASAP so that our records can be updated. =SK=

The club is selling PARC blue hats with the PARC logo on it for \$5 and we are selling the commemorative 5c cent stamp pins for \$5. See me at meetings. Sorry, but we are out of the PARC blue shirts. If there is enough interest, we will make up another order. =SK=

FROM TIME TO TIME CLUB MEMBERS SHOULD CHECK THEIR ADDRESS LABEL TO SEE THAT THEIR LICENSE EXPIRATION DATE IS LISTED UNDER LX-yy-mm. IF YOUR LICENSE EXPIRATION DATE IS NOT LISTED OR IT IS DUE TO BE RENEWED WITH THE FCC WITHIN THE NEXT SEVERAL MONTHS, YOU HAD BETTER GET ON THE STICK AND GET IT TAKEN CARE OF NOW SO THAT YOU DO NOT HAVE FUTURE PROBLEMS. Send license expiration corrections to me at the club's address or see me at club meetings. I am the guy at the back of the room dressed in a white jump suit. I will jump for joy if you sign up for another year or get your label corrections in to me right away.

Membership is 753+ which means that 1/10th of all licensed amateurs in San Diego County belong to PARC. (We have corrected some accounting computer problems which has resulted in this revised membership total. -Ed) Since August 1st we have signed up 129 new members.

(NEW)/(renewed):

3yrs= WB7BDK-JIM, WD6GIA-JOHN,
2yrs= KE6DRA-DAVE, ke6due-Jim,
ke6afh-Bing,
1yr= KD6UBB-JOHN, KD6UBC-KIM,
W6PVT-BOB, KD6CKR-LARRY, KE6DSH-ERIC,
WA6GGS-JACK, KE6BZP-LIEF, K6HE-JAMES,
KK6JG-JOHN, KE6DLO-JOSH, K6RRP-RAY,
KE6EJG-CLAUDE, KC6VVS-CANDIDO,
KE6EDR-LARRY, KE6EDS-LORRI, n6qdb-Susan,
kd6rfj-Mike, AB6CK-BOB, KD6KBA-MARK,
KC6MVG-CAPPY,

CHANGES: Joe Pevney-WA6MOS to 42-995 Latisha Ln, Palm Desert, CA 9221.

YEARS A GOGO

(3-89) For Sale table authorized at club meetings ..Joe-N6RVO constructed an operating table in the club's trailer ..took 70 minutes for W9FQN to silence a jamming xmtr on 146.73 ..Chuck-N6TJT took part in an organ dedication concert attended by many club members ..18MHz opened to amateurs ..Highway in Oceanside went out of business (THEY ARE NOW BACK IN BUSINESS -Ed) ..Bill-K6GJD moved to Show Low, AZ.

SIMPLEX REPEATER

Members should be reminded that the club owns an Emergency Simplex Repeater (ESR) which can be used for emergencies and other club sponsored events. The repeater operates on any 2m simplex frequency that you select and repeats EVERYTHING that it hears (16 seconds worth). Two more chips would give us almost 60 seconds of speech. If you say, "AB6LY this is AB6QT", then when you release your microphone it will immediately come back transmitting "AB6LY this is AB6QT" using YOUR natural voice.

A simplex repeater slows things down because all communications take place twice but one has the advantage of knowing that the repeater heard you and retransmitted exactly what you said.

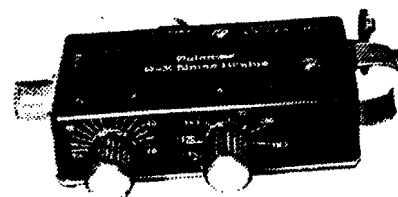
The repeater is made out of an old Heathkit xcvr, a voice controller, antenna, and 68AHR of batteries which should allow it to operate under normal conditions for almost a day of activity.

You will need to find a high location that you think will allow coverage of the area of interest and run tests B4 the event.

This ESR unit was built by Larry-AB6LY from materials bought or donated to PARC and has been listed on the front page of the SCOPE for several years. We have had NO requests for its use. We

really do wish some group would give it a try sometime since we would like to know how well it performs as a emergency repeater. If we had a small 70cm xcvr, we could set up a 70cm ESR. The advantages of this ESR system over the new "dual-band xcvr repeater mods" is that you can broadcast without having to use two frequencies or two different bands such as 2m and 70cm. You are also "slightly" more legal with our ESR.

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Palomar Engineers

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Phone: (619) 747-3343

WB6IQS REPEATERS W9FQN

We have been aware of problem with the 146.73 repeater controller which has caused the controller to reset and also to send out a "P" to indicate a power failure when there was no failure. The programmer of the controller has discovered a routine that had the wrong value in it allowing the controller to go off into never-never land and reset. He is sending us new chips which we hope will solve the problem by the time you read this.

Also on 146.73 an amateur in Big Bear is using a 146.73 repeater to the north of him and unfortunately he also brings up our repeater. When this happens you will need to keep your transmissions much shorter than usual so that you do not get timed out with his signal coming into the repeater on the change over. He is only talking 50% of the time so if you keep transmissions short you should have no problems hitting his 50% dead time. =SK=

Sometimes the repeaters are put in the "net mode" which usually means that the time-out-timer is turned off and the "beep" is turned off. This is usually done for several reasons. First, during some nets where there is a lot of traffic, we like to put it in the "net mode." Secondly, when someone has a jammed transmitter (or other signal) on the frequency we do not want the repeater to time out so the repeater is put in the "net mode" so that club members and direction finding teams can look for the jamming signal. We would just as soon that you not talk about this function or guess as to why it is in the net mode. =SK=

We have recently noticed that the 147.075 repeater is keyed up by voice peaks coming from a base station using the Catalina 147.075 repeater. He is either running a lot of power and/or using too much deviation.

WB6FMT AUTOPATCHES W9FQN

NEW MEMBERS should request an AUTOPATCH INFORMATION SHEET for the five 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. =SK=

The following prefixes have been added: Section #3 (482) and Section #1 (753). Please correct your prefix listings and/or card.

When using the autopatch it needs to be remembered that your signal is going to Palomar Mountain through a repeater and then out into a link connection to one of the three sections of San Diego County which means that there is a definite time lag in all of the circuits to switch from receive to transmit which opens up several problems which mobile operators can experience:

1) The mobile asks a question and does not hear a replay. They ask again and they hear no reply. The person is replying but they are answering so quickly that the transmitting circuits are still switching over to receive which covers up their voice ..and you do not hear the answer. So, tell the person you are talking to that they need to hesitate 1-2 seconds before they come back with a reply. It is sort of like a short squelch tail at the instant you drop your carrier that covers up any reply that they are making.

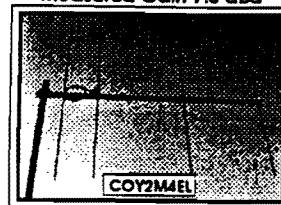
2) The person you are talking to thinks that since they are using a telephone that they can INTERRUPT you like they USUALLY do over the telephone. The autopatch is a ONE-WAY-STREET and only one person can talk at one time and be heard. The mobile using the patch has complete control and can interrupt what the person is saying over the telephone. In fact, if they start to use bad language you can key up your mic and cut them off of the

repeater and all that will be heard is your dead carrier or your reminding them they this is amateur radio and that they need to watch their language. The person on the phone CANNOT INTERRUPT you since the mobile signal always is connected when you are talking. When you are talking you might want to get into the practice of using OVER at the end of each transmission and encourage the person you are talking to to do the

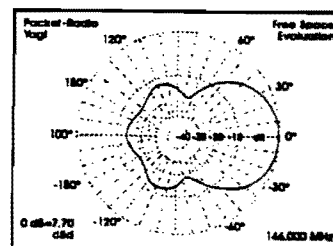
Swiech
Communication
Systems

Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd



H-Plane beamwidth 60 deg
Bandwidth 144.5-147.5 MHz
SWR < 1.7 at Band Edge
Impedance 50 ohm
Silver Plated Teflon SO-239
Maximum Power 500 Watts
Chemfilm Treatment On Brackets
Balanced Matching System
Two Part RTV Potting
Black Delrin Insulators



(619) 748-2286
Gene Swiech, WB9COY

same thing. There are many times when control operators know that both are talking at the same time ..and it is always the person on the phone who gets covered up. =SK=

Ending an autopatch is an art. Many users are saying, "well, I will close now." Then they say, "N6YZZ clearing autopatch" and close down the patch without giving the person they are talking to a chance to make a last needed remark. Possibly you might want to end with some variation of the following:

- a)"is there anything else before I close?" (their yes or no).
- b)"ok, N6YZZ clear patch." Then issue the shutdown code.

Remember, they cannot call you back after you "cut them off." =SK=

Members using HT's to run autopatches should not be surprised if they can't bring up the autopatch. Remember, you need a STRONGER signal for the autopatch than you need for a QSO. A weak voice contact can be maintained since the other party can miss 10-20% of what you say and still understand your message. This is not true with the autopatch. One missed number and the whole patch is lost. Make sure you are in a good position to make your autopatch transmissions. =SK=

ATV Cont.de Pg.1

PARC has a second fund which was started with a \$100 donation by PARC club president, HARRY-WA6Y00. PARC has added \$500 to the fund from its equipment fund bringing this total to \$600. The club is looking for additional donations from members who think that they would be interested in helping with this ATV project which will start out covering approximately 2,000 square miles of San Diego County. Donations should be sent to the PARC ATV fund and can be any amount from \$5 to whatever seems reasonable to you and your situation.

Some of the equipment being used will be borrowed from the ATV

Network of Southern California and PARC will need to buy replacements as we move along with the project.

BILL-KB6MCU and MIKE-WA6SVT are serving as project co-chairmen and GENE-WB6COY is helping with antennas and other projects. PARC Tech's will oversee the project so that other systems at the site are not degraded.

Bill has indicated that their first test pictures from a limited system at our repeater site should be on the air by March 15th. He will make suggestions soon as to the equipment that members would need to receive these pictures. A basic receive system would probably consist of a \$50-100 converter in front of a TV set and a beam pointed at Palomar Mt. The ATV system consists of the following:

1)A 1241.25 MHz transmitter on PMt which will broadcast an ATV picture to 2,000 square miles of San Diego County. You will need a converter to convert this frequency down into the TV range so that you can see the picture on a regular TV set. We suggest that you start looking around for a small portable B&W or color TV set to get started on your own ATV station.

2)A 919.25 MHz receiver on PMt which will receive pictures sent to it and the output will be into the 1241.25 MHz transmitter. These two units form a split band repeater.

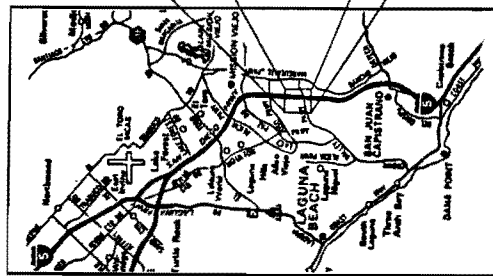
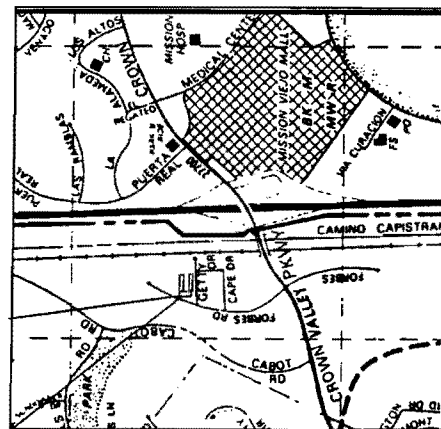
3)A 146.43 receiver on PMt which will be used as one leg of an intercom. Stations in SDCo. will broadcast their audio to PMt on 146.43 and it will come out on the 1241.25 MHz transmitter along with the ATV picture.

4)A 434.0 ATV receiver will be installed later and tied into the system. This frequency will probably be used in emergencies to help with EVAC emergency operations.

The basic system will then be tested for several months.

PARC expects that there will be problems that need to be worked out. Especially with the 146.43 receiver intercom which falls near

the 146.7 and 146.73 repeater outputs. We hope this potential problem can be solved with filters and antenna separation. It needs to be remembered that PARC is working with over 29 frequencies at our site which opens us up to various possibilities for interference and intermodulation products.



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(In front of the Back-sale)

Pg. 7

(7-8) Commodore C-64 computer complete ex cond monitor 2-drives 2-printers 80col card mem-exp card software RTTY interface + books \$200: Henry N6JWF 945 1247 Ocsd. GUD WAY TO GET ON RTTY AND RUN CODE!

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

6-18) Drake w4 wattmeter .2-2kw scale \$55; TENTEC squeezer keyer \$55; battery charger D-A-C cost \$30 now \$9; mobile 3.5" cone spkr \$8; SCANNER R/S mobile + 110vac w/mt bracket w/out of area xtals UHF/VHF \$20; E Voice Mic 674 W/stand & cord \$25; Larry W7HKI 439 5855 Ocsd.

***** WANTED *****

"a few good men" or "women"

(02-09) Kenwood SP-430 spkr & autotuner; '93 ARRL Handbook for library: Duane AA6EE 789 3674 Ramona.

(01-19) Disk programs for MFJ-1278 multimode to be used in club project: John WB6IQS 724 8380 Vista.

(01-05) To copy tech manuals for Kenwood TH21AT and Alinco ELH-230G 2m linear amp: Mike KA1VFF 430 2845 Ocsd.

(12-12) DC current probe for Tektronics AM-503 and/or scope DC to 50MHz: Stan W9FQN 749 0276 VillyCtr.

(12-10) Baja Ham, XE2XU, is looking for a 12v HF radio for 80-40-20. Possibly early Atlas: Nash W6HCD 728 3574 Bonsall.

(12-6) To copy manuals for Zenith laptops ZWL-0200-02 & ZWL-184-97. Also need a hard disk drive for the #97: Mike AB6QT 742 1573 P.Mt.

===== V E T E S T I N G AA6OM =====

N.Co.FCC LICENSE EXAMS given by the PARC VE Team @ Carlsbad Safety Ctr, Carlsbad (Camino Real to Faraday, 14F6, follow CSC signs East) on 2nd Sat. @ 10am. Reservations less than 2da in

advance & walk-ins not normally accepted. Call me at 747-5872.

610 FORMS AVAILABLE: HRO, 5375 Kearney Villa Rd. or at club meetings from KB6NMK or W9FQN.

FEBRUARY 12th TESTING: 10 candidates for 14 el with 100% pass. Results were :

ADV->EXTRA: Mike-WB6QXV and Steve-KB6JFA.

GEN->ADV: Ron-KB6TFY

TECH->GEN: Greg-N6ZVX

->TECH: Victoria-KC6PYD, Jay Coon, Steve Gebler, Saul Lisauskas, & Loraine Merrell.

OTHER: Mike-KE6EJF (3B).

EXAM TEAM: no names or points credited.

E D I T O R

Stan-W9FQN 30311 Circle R Ln Valley Center, CA 92082-4806 749-0276, 11:30am or 9:45pm

If anyone has any information on the amateur who is on our 2m and 70cm repeaters that has lost his larynx, please contact me or send me his address. =SK=


N E W S

Contributions to =NEWS= should be sent to your editor by the 18th of the month. =SK=

Anyone wanting to see a copy of the minutes of the 1994 Annual Meeting of the Board of Directors of the AMERICAN RADIO RELAY LEAGUE dated January 21-22, 1994, should contact W9FQN, assistant SW Division Director, at one of the club meetings. =SK=

DAVID-KC6YSO reports that he will be net control for a 6m FM net starting March 5th, Saturday, on 52.540s at 8pm. David's QTH is in the SD State College area. The net is being started to see what type of ground coverage 6m has for possible ARES use in emergencies. If you don't have a 6m xcvr, you might check to see if you can hear them on your scanner (or your TV set - Ed). =SK=

(de W5YI REPORT, pg17, 15Jan94) Do you remember the story we did in the Nov. 15th issue on amateur Chris Boyer (PARC club member -Ed), KC6UQG of San Diego, CA who summoned help for a badly injured friend using a modified ham radio tuned to a public safety (sheriff's) frequency. Boyer said it was the only communications method available to him that worked. Cont.pg.11.




CONTES ELECTRIC

Industrial
Commercial
Residential
Lic. # 556187

(619) 749-2699
Joseph Contogenis
P.O. Box 1560
Valley Center
CA 92082

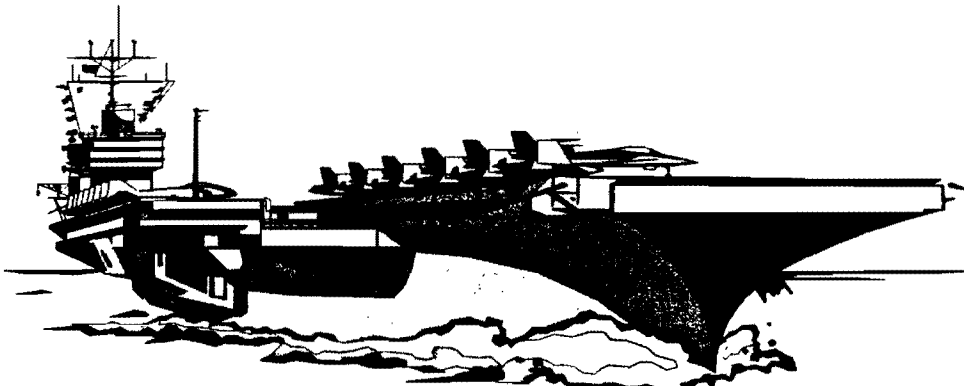
NU6L



**REGISTERED
U.S. PATENT ATTORNEY**

723-0620

Loyal M. Hanson - W9WV
Fallbrook, California



To ALL MEMBERS of the Palomar Amateur Radio Club:

PICTURE YOURSELF OUT HERE - SOMEWHERE IN THE PACIFIC! YOU HAVEN'T HAD MAIL FOR 42 DAYS. YOUR WIFE IN SAN DIEGO IS ABOUT TO DELIVER A BABY. BUT YOU HAVE NO IDEA WHAT IS GOING ON AT HOME...

But you're lucky: someone in Radio Central is a MARS operator. You get a message:
"3-POUND BOY, 23 APRIL - MOTHER AND CHILD FINE - NEED CHOICE OF NAMES -
LOVE AND MISS YOU - LINDA"

That was years ago. - Now you are a member of PARC, happily rag-chewing on the repeater on 146.730 almost every night. Local time: 1959. You get mildly annoyed at some joker interrupting your QSO and asking to use the frequency for a traffic net. You yield graciously and decide to QSY to another repeater. Your QSO partner hasn't got that one programmed in his radio, so you say 73 and decide to listen and find out what so rudely interrupted your pleasure.

The net holds 22 messages from ships in the Pacific (AP) to families in San Diego County.
"WOW!", you think, remembering when you were out there...

You hear: "Roll call follows. When checking in, please indicate what traffic you can handle. Call signs only". Then you hear maybe 4 or 5 stations checking in, and NO ONE taking any messages. The MARS operator is at his wit's end. Out of the 700+ members in this club, not a single one is willing to take a message! "What kind of radio amateurs are these?", you may think. "Members like that are about as useful as a dead elephant in your garage!"

Finally, one of the regulars breaks in: "This is N6TEP. I'll take whatever messages are left on RTTY after net." RTTY is neat, fast, and digital. It makes hard copy on the computer. Errors are rare. No phonetic spelling, no awkward repeats, no endless and boring waits for your turn to take a message. No running over into net time of others at 2100. - 22 messages copy over on RTTY in about 8 minutes.

But all this stuff is for experienced operators, right? You're not going to make a fool of yourself on the air by showing ignorance of procedures, or being slow writing down messages, right? You're also too busy/lazy to

get involved, right? And most of the messages are long distance calls for you, right? So, you have a good excuse for staying silent, right? After all, you're not making a lot of money, and your wife will kill you when she sees the phone bill, right? That's not what you joined PARC for, right? All you wanted was to be able to rag chew and brag about how you can make "free" calls on the autopatches anywhere in San Diego County, while others pay high prices for cellular service, right? You also would feel embarrassed being in the spotlight on the air, "blessed" by wives and girlfriends of service men you don't even know, right? You want to remain ANONYMOUS, right? Besides, you are scared to use the autopatch, because you don't know how, right? The whole thing is too much of a bother and too much of a responsibility, right? And you can't be tied up on the radio every night of the week! You have your own life to live, right?

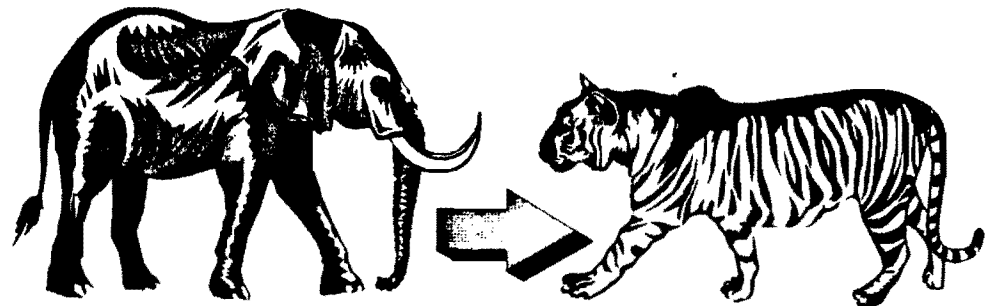
WRONG ON ALL COUNTS! IT DOESN'T TAKE A HERO.....

If you got really brave and signed up as a net control operator or alternate for one night a week, we would welcome you with open arms. We'll support you all the way and nobody will say a nasty word. So you do make some errors. So, what! We all did and still do. We are friends, remember? Fellow amateurs, not a bunch of hyenas looking for dead meat. We are a FRATERNITY! (Sorority, too, if you will). Bernice, N6WQR, recently became a MARS operator. That is a lot tougher than being on the traffic net and carries a much greater obligation. My hat is off to Bernice.

So, if you feel encouraged, give us your name, callsign and landline number below on this sheet. We'll take it from there. You get all the information and support you need. Or sign up on the air. At least try to sign in sometime on the net and take a few messages. Most of us use a tape recorder to speed up message taking. It doesn't have to be a boring chore or a crushing responsibility. YOU can make serving out in the Pacific, or on an outpost anywhere in the world, a friendlier and more comfortable place for the crews out there. Radio amateurs have a proud tradition of community service. If you have been a dead elephant, turn yourself into a live tiger. Go for it! You'll be glad you did.

73 to all from Charles, N6TEP, (619) 471-0439, net manager SDCTN.

NAME.....CALL.....
LANDLINE.....



LETTERS to the EDITOR
The editor & the board reserve the right to publish & edit all letters

John Bescher, N6SMW, likes to DX and sends the following to his favorite contacts or rag chews along with his QSL.

HAM FACTS ABOUT SAN DIEGO: The city of San Diego is the 2nd largest city (319.6 sq.mi) in California (Los Angeles is the largest). We have many repeaters and several very active amateur radio clubs. In 1991, 1992, and 1993 the Palomar Amateur Radio Club (W6 Nothing Works Good) won first place in Field Day category 5.

San Diego county is the 5th largest county in the USA in area (4,255 sq.mi.) and 13th largest in population ..not exactly a rare county for county hunters (We also have about 7,000 amateurs of which 10% are in PARC -Ed).

Average temperature is 70 degrees F with Sunny Mild Weather, just like my call N6SMW.

Located at the extreme southern tip of California, San Diego shares its metropolitan space with Tijuana, Mexico. One of San Diego's slogans is that the city is where California began. Portugal's Juan Rodriguez Cabrillo landed here in 1542 and claimed the land for Spain. Today, Cabrillo National Monument, on the tip of Point Loma Peninsula, is the most visited national monument in the USA. San Diego has been governed by American Indians, Spain, Mexico, and finally, in 1846, the United States ..all before ham radio.

Weather: Average highs in San Diego along the coast range throughout the year from 65F to 76F with nighttime lows from 46F to 66F. A few miles inland, daytime temperatures can increase into the 90s or above during the summer and fall months. A local condition called a "Santa Ana" can affect temperatures dramatically as high winds off the desert sweep the

region, including the coast. We never worry about high winds or ice storms destroying our stacked yagis and cubical quads. Lightning storms are rare.

Rainfall? The San Diego region is characterized as a "coastal desert" or Mediterranean climate. It receives an average of about an inch of rain in each of the months of November through April, though for the last five years the region received considerably less, resulting in a drought condition. Most of the water for Southern California flows from the Colorado River over 200 miles away via canals and aqueducts. It never rains on Field Day.

One of the nice aspects of San Diego is its climate. The weather here is normally sunny and mild. Sweaters or jackets are needed in the evening for all seasons. Snow is unheard of in the city of San Diego although in January and February occasionally we have frost in the mornings. By midday, temperatures are between 70F and 80F along the coast. To the east, about 50 miles from the coast a mountain range up to 6,000 feet results in an alpine climate with pine trees and snow in the winter. The mountain range ends with an escarpment or plunge into the desert, about 75 miles east from the coast with very hot and dry weather. Great portable operations!

THINGS TO DO IN SAN DIEGO.

1) Go shopping in areas that are worth visiting even if you can't spend a dime: La Jolla's Prospect and Girard streets; Del Mar's Camino del Mar; Horton Plaza; Old Town's Bazaar del Mundo; Tijuana.

2) Rent a car and drive along the coast, stopping at various beaches and beach communities along the way. One great stretch is Torrey Pines Road north from La Jolla to Oceanside.

3) Rent a bike ..or walk ..around Mission Bay. The sidewalks are wide, the bay views breathtaking, the air invigorating ..and the

people-watching isn't bad, either.

4) Take in a play at the Old Globe Theatre in Balboa Park. The architecture and ambiance are worth half the price of your ticket ..and Balboa Park is free.

5) Sea World: the kids will remember the huge nautical theme playground, Capt'n Kid's World, the rest of their lives ..as well as the huge indoor aquariums and other outdoor performing animal shows ..and wait until you see the multi-million dollar killer whales pools!

6) Drive across the Coronado Bay Bridge. You can turn around at the other end if you don't want to pay the toll and/or tour Coronado. Other prime view sites are the top of Mt. Soledad between Pacific Beach and La Jolla, and the Cabrillo Monument at the tip of Point Loma.

7) Sample Mexican food, San Diego Style ..there are many very good restaurants in San Diego offering almost every style of food (or visit Tijuana and have fish and/or shrimp at LA COSTA AZUL near the Jai Alai Palace -Ed).

8) Drive to the Anza Borrego desert via the mountain community of Julian; stop at Dudley's Bakery in Santa Ysabel for apple-nut bread hot from the oven. Once in the desert state park, take the trail that leads to the palm oasis (best time to visit is spring).

9) Tour San Diego Bay by boat; San Diego has a very clean, enjoyable waterfront with bike paths, ferryboats to Coronado and harbor tour boats. Visit the Star of India, watch the cruise ships, or see if you can identify some of the US Navy ships in port.

10) Whether you are accompanied by children or not, whether you love animals or not, visit the world famous San Diego Zoo. The jungle paradise landscaping alone is worth it. If you have time, a trip to the San Diego Wild Animal Park rounds out your experience.

(if anyone can add to this, drop your editor a line -Ed).;cm

LATE: IC-735 \$700; SCOPE-466 \$549; HP 141T Spec Analyzer \$1,650; TenTec tuner \$50; Viking Patch \$80; MFJ-1278 w/multicom \$175; YAESU FTV-250 (2m) & 650 (6m) \$150ea; & lots more: Mark N6RMM 480 4477 Esc.

ESTATE SALE.

Hand held Sony TC55 cassette recorder; Sony portable TC110A recorder; Realistic Speaker; HP pocket business computer; sound level meter; Kenwood stereo amp L-07C; Kenwood stereo tuner L-07T; JVC Mod QL-A7 turntable; Dual Mod 1229 turntable; Nakamichi CR7A cassette deck; ADS model 10 acoustic dimension synthesizer; Realistic Mod 31-2010 12 band equalizer; ADS bookshelf speakers Mod L-10 (50-100w); JVC Mod KD085 cassette deck; Pr KEF 200w speakers w/Kenwood pwr amps Mod L-07M: Harry WA6Y00 Esc.

***** News de.Pg.8.
He supposedly tried both amateur and cellular frequencies.

Even though the rules permit the use of any communications means at a person's disposal in an emergency situation, Boyer later got called on the carpet by the sheriff and the FCC. According to a newspaper account, he surrendered his \$500 transceiver to avoid further penalties which could have included a heavy fine and imprisonment.

We called the San Diego FCC field office and asked engineer Jerry Mann about the matter last November. He said he could not comment since the Boyer case was still open and FCC action was pending. Mann said he would get back to us once the path of action was determined.

We checked back again last week (two months later) with Mann and was told that there has been very little movement. The case was still pending, but had a low priority. We were again promised that we would be FAXed more on this case once FCC action is taken. =SK=

Tod Bloxham-KB7QDZ, the 18 year old ham who walked 2,700 miles in 147 days (Jun.26-Nov.18) from

Canada to Mexico on the Pacific Crest Trail this past Fall, hiked through the Cuyamaca Mountains where the two aggressive mountain lions lately have caused great concern. Tod was the youngest solo hiker to make the trip the hard way: Canada to Mexico. Most hikers take the easier hike from Mexico to Canada because of the weather allowing an earlier start from the San Diego area. Tod's last night in the Cuyamaca Mountains was spent in six inches of new snow without a tent!

A QSL card from Tod indicates that he was overwhelmed by the interest shown by hams in the San Diego area and especially those from the PARC 73 (sincerely yours) repeater.

Your editor just received a letter from a lawyer who lives in Alaska asking about the Pacific Coast Trail in the SDCo area. Seems as though he wants to hike from Campo to Warner Hot Springs sometime this Spring and wanted information about the trail and repeaters in the area. =SK=

Everyone needs to write to their two Senators and Representatives asking them why they are not cosponsors of the Senate Joint Resolution 90/House Joint Resolution 199 which deals with amateur radio. See July and January QST's for more information. Neither California Senators have yet to come aboard (de Fried Heyn WA6WZO). He would also like to have your input on the FCC vanity call proposal NPRM (93-305). =SK=

ELLEN UTSCHIG, N6UWW, recently received a SHERIFF's civilian commendation for her work in January '93 flooding in the De Luz Canyon, North of Fallbrook. =SK=

Beginning March 1st the FCC will accept only the new version of its Form 610. This applies to everyone. (de ARRL) =SK=

Ray-G3DHZ from England called your Editor in late January wanting to know the frequency of "the Palomar" digipeater. He wanted to

send a packet message back to England! He then mentioned that he got into San Diego County on a regular basis and accessed our W6NWG-1 node (PALMAR) using the "wormhole" from England. He was able to access the local DX node in SDCo for up-to-date DX information. Ray was in a hurry and I was not able to find out where the "wormhole" was located. Does anyone know how to get into the wormhole? =SK=

Tucson Amateur Packet Radio (TAPER) has scheduled its annual meeting for March 4th through 6th in Tucson, Arizona. TAPR has a new address: 8987-309 East Tanque Verde Rd, No.337, Tucson AZ 85749. Fax 817-566-2544. (de ARRL) =SK=

(de W5YI REPORT) All telephone area codes with "0" or "1" as the middle digit have been assigned. New codes will have a middle digit of 2 through 9 which could cause difficulty with some phone systems and autopatch programming which preclude long distance access based on the existence of a "0" or "1" as the second digit. =SK=

(de ARRL Newsletter Dec93) ..check your license expiration date ..five years ago the term of your new license went from 5 to 10 years so no licenses have expired in the last 5 years. Licenses are now beginning to expire ..check yours now (its on your license and ON YOUR SCOPE MAILING LABEL! You need to renew at least 60 days before expiration ..use Form 610 ..if your renewal is late you must stop operating ..licenses expired more than 2 years may not be renewed which means you loose your call sign and must take the tests over again ..oh JOY. =SK=

(de COMPUTER JOURNAL via N6KI) The Gartner Group said that by 1995 there will be 55 million PCs connected to LANs and between 400-500 thousand desktops will employ wireless connections! Some of the frequencies proposed are 902-928MHz, 2.4GHz, and 5.7GHz bands. =SK=

Received a great ham shack picture QSL card from BILL SALTER-

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 |

1993

K6GJD (Gud-jack-daniels) who has been at 1641 N. 39 Dr., Country Club Manor II, Show Low, AZ 85901, 602-537-7373 (why not 8888? -Ed), for the past few years. Show Low got its name from Clark and Cooley who owned 100,000 acres. They decided to play a game of cards; winner to take the ranch. The game lasted all night. When the last hand began, Cooley needed one point. Clark told Cooley "SHOW LOW and the ranch is yours."

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 send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

Cooley turned the deuce of clubs, thereby naming SHOW LOW. The main street became the Deuce of Clubs! (I will bring the picture to the next club meeting along with two brochures extolling the merits of visiting the Show Low area and a local club newsletter, KACHINA QSO. -Ed) =SK=

Hugh-K4ESQ, a former physics student of your editor, dropped off the January 10th issue of WATERFRONT which had an interesting article about "San Diego Cruisers net, a Daily Airwaves Fix" which mentions a "Radio Mike" who is on the air most mornings at 9am on VHF Channel 68. Evidently boaters (cruisers) check into this net and exchange information something like our 146.73 boaters net. It also appears as though "Radio Mike" is also an amateur radio operator and hangs out at Pacific Marine Supply down on Canon St. in SD. If anyone listens to this morning VHF net or knows "Radio Mike," please contact your editor. =SK=

SCOPE

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Pg. 1 SK(N6TJT), Next Mtg, ATV . . .
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Pg. 3 Pres.QRM, Membership, HRD Ad
Pg. 4 AGOGO, Simplex Repeater, 2Ad
Pg. 5 Repeaters, Autopatches, . 2Ad
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Mira Mesa
La Mesa
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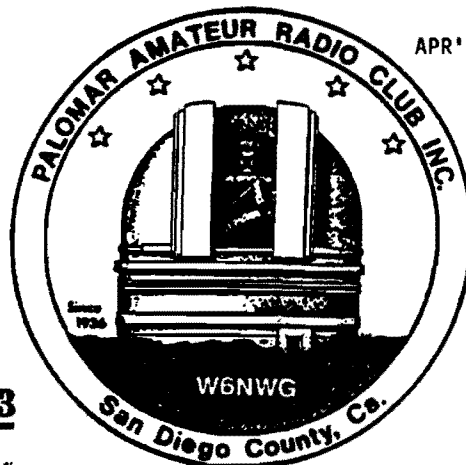
SCOPE

Scope

W6NWG

Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073



APRIL ***** 1994 ** 58 YEARS OLD

Volume XX, Number 04

Published monthly by PARC

an ARRL Special Service Club

Membership \$12including \$3for SCOPE
Coffee 7:00pm & Meeting at 7:30 pm
Carlsbad Safety Center(CSC),Palomar
Airport Rd.to N.on Camino Real(S11)
east on Faraday .25 mi,left to CSC,
ThomasBro.Pg.14F6. Talk-in 146.730.

*** E L M E R S *** (call for info)

CARDIFF, . Duane-WB6R,753-4821

CHULA VISTA, Steve-N6RUV,422-4415

ESCONDIDO *** Harry-WA6Y00,743-4212

*** PALOMAR AMATEUR RC PRESIDENT

La MESA, . Roger-N6UW,697-6025

LAKESIDE, . Mac-WB6XR,561-2211

RAMONA, . Vern-AA6UU,789-3070

SAN DIEGO, . Dennis-N6KI,271-6079

\$AN MARCO\$ ** Ralph-KC6WAN,727-7415

*** PARC MEMBERSHIP CHAIRMAN

VISTA, . . . Jack-KI6JM,598-0420

SAN MARCOS, Rusty-AA6OM,747-5872

(Head PARC VE testing program)

Prospective amateurs ONLY can call

1-800-32-NEW-HAM @ the ARRL Hdq

8AM-5PM ET M-F for information.

I N S I D E:

Pg. 2 Board,Minutes Last Mtg ... Ad

Pg. 3 Pres.QRM HRO Ad

Pg. 4 Membership 2Ad

Pg. 5 Repeaters 2Ad

Pg. 6 Autopatches, News 2Ad

Pg. 7 For Sale 2Ad

Pg. 8 VE Testing, AGOGO, News . 2Ad

Pg. 9 RADIOGRAM, Traffic Net 2Ad

Pg.10 San Diego Co. Traffic Net ..

Pg.11 SW DIVISION CONVENTION ..

Pg.12 Application, CONGRESS ALERT .

OPEN REPEATERS / CLOSED AUTOPATCHES

PARC FREQUENCIES USED:

PALOMAR MOUNTAIN REPEATERS(W6NWG):

Autopatches:146.73; 147.075; 147.13

449.425 and 146.7 RTTY

PACKET: 145.05 and 70 cm METROLINK

SIMPLEX: 145.350; 145.520; 446.000

ATV:1241.25(out)/919.25(in);146.43s

OTHER: 220.9(WD6HFR);146.175(WA6IPD

(all repeaters 107.2 PL except .73)

COVERING 2000 SQ-MI OF SAN DIEGO CO

E N S E N A D A H A M T R I P

PARC was very fortunate to

obtain the last 21 tickets on a

Mexican promotional tour by

ENSENADA AIR BUS to Ensenada,

Mexico. The PARC Board has

negotiated a cost of \$149.99 per

couple (no US tax) for the 12 day

trip departing from the Bonsall

Municipal Airport on the morning of

April 31st. Free parking will be at

the Bonsall police station so don't

be afraid to leave your radio in

your car.

SIGN UP NOW! SEND CHECKS TO

PARC's ATV fund which would stand

to profit a great deal from this

SPECIAL promotional tour provided

especially to PARC (One member of

the couple must be a club member).

MEXICAN XE calls will be

provided to ALL participants so be

sure to bring your HT's for local

communications on the ground and in

the air. An award will be given to

the ham that makes the farthest

contact from the aircraft while

still in flight.

(Cont.pg.4)

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

Apr 4 Mon. NOVICE/TECH CLASS STARTS

BRING YOUR XYL, youngsters, etc.

Apr 6 Wed. Palomar ARC Club Meeting

Apr 9 Saturday PARC VE Carlsbad SC

Apr14 Thur. PARC 7pm Board Meeting

Apr15-17 International DXconvention

Apr18 DEADLINE FOR SCOPE ARTICLES

Apr22 SCOPE placed in mail at Vista

Apr25 ESCONDIDO ARS Auction 6:30 pm

Apr29-May1 VHF/UHF Con.(6m club SC)

Apr31 ENSENADA HAM TRIP IN MEXICO

Aug26-28 SW DIV CONVENTION SanDiego

NEXT CLUB MEETING KC6UQH

Art McBride-KC6UQH, VP and

program chairman, has announced

that the April club meeting will be

a program by Bill Smith, KB6MCU, on

the Club's new Amateur Television

repeater. Bill will show the

repeater, its various parts, and

give a demonstration.

SHOW & TELL: Talk to Art-

KC6UQH B4 the meeting to reserve

time for UR S&T item(s).

A M A T E U R T V . KB6MCU

The April 6th PARC club

meeting will be on ATV with Bill-

KB6MCU and Gene-WB9C0Y giving a

demonstration-lecture on ATV and

what will be needed to access the

repeater which they will have in

operation at the club meeting

before taking it to the mountain.

Bring your friends to see what is

required to send and receive ATV.

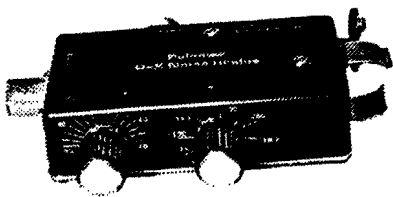
You might also want to bring along

some paper and a pen to copy down

what you would need to get started

in ATV.

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 92033
Phone: (619) 747-3343

BOARD MEMBERS present:

President: Harry Hodges, WA6Y00
VPPresident: Art Mc Bride, KC6UQH
Secretary: Nash Williams, W6HCD
Treasurer: Jennifer Thieme, KM6WG
RTechnical: John Kuivinen, WB6IQS
SCOPE/etc: Stan Rohrer, W9FQN
Membership: Ralph Powell, KC6WAN
Board Member: Mike Doyle, AB6QT
Board Member: Rick Zimmermann, KC6LV
Absent: Treas. KM6WG & Member AB6QT
- also present -
Constitution: Jack Hanthorn, KI6JM

OTHERS: Ken-N6ALA, KK6KD, & KD6DKM.

Club members are invited to attend Board meetings to observe the Board of Directors in action ..or non-action ..and receive one activity pt. for attending. GREAT BROWNIES, HARRY!

- SECONDS -

DISCUSSED: EquipBa1 \$1900, General \$2800, PrePd \$3400, PO \$145 and budget items, Ad billing suggestions (MW); programs (UQH) & program length; Americas Unidos request to put their 224.380 in PARC bunker (KD/DKM/FQN); Insurance (Y00/JM); TASMA and coordination problems (UQH/FQN); PARC business card (FQN); PARC brochure (Y00/FQN); repeater problems; SW Div Conv (Y00); donations to ATV fund & update (Y00); membership 751, dues reminder card or marking on SCOPE (WAN); RTTY board (UQH); packet repeater (gen); Oscilloscope to site (IQS/QT); Tech Mtg Feb (IQS); traffic net (gen); donations and club status (Y00/JM).

APPROVED: \$500 for possible ATV use (Y00/FQN); \$150 for heliax (FQN); selling tower \$250 (FQN); early April SCOPE;

Please contact one of the board members for more info or see the secretary for written minutes.

NEWSLETTER HELPERS MAR. SCOPE

KI6JM, Jack Hanthorn, folding, Refresh
KC6WAN, Ralph Powell, printing labels
W6TFB, . Lloyd Hunt, . folding
KB6YHZ, . Art Nye, . folding
KD6RFM, Emilio Spelgatti, folding
WA6Y00, . Harry Hodges, . Staples
KB6YHY, . Anita Nye, . labels
N6TCB, . Jerry Carter, . labels
W9FQN, Stan Rohrer, Editor, PO Forms

The Fold-Staple-Multilate-The-SCOPE-group meets at Jack-KI6JM's QTH in Vista at 12:30pm and usually finishes about 2pm. We can always use more help. FSMTS day is the Tuesday of the week before the club's 1st Wednesday club meeting. You receive one activity point for participating in the fun and games. The jokes told at these gatherings

are "out of this world!"

LAST MEETING

In attendance were 103 members, 17 guests, for a total attendance of 120. PLEASE COME EARLY and help set up chairs.

SHOW & TELL featured KEN-N6ALA with a newly constructed RTTY adapter for IBM computers. Others interested in constructing this easily made adapter should contact ART-KC6UQH for information on the printed circuit board. JOHN-WB6IQS made up the prototype board on his computer from a schematic supplied by Art.

GENE-WB9COY again had a demonstration of Amateur TV in the hallway for members to observe. The pictures were coming from Santiago Peak to the north of us in the 70cm band which is plagued with interference from the Navy radar that we see from time to time on our 449.425 repeater on Palomar Mountain.

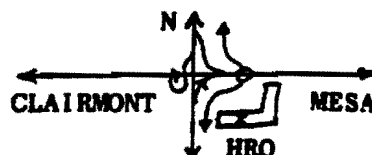
For those of you interested in ATV you might take a look at the line of antennas which Gene sells for the 1.2GHz ATV frequencies. One of those antennas with a converter in front of your TV set is all that you will need to see all the fun on ATV. Transmitting pictures can come later.

BECKY-KE6BUE and GERRY Jones (Assoc.) supervised the drink and goodie table with members bringing goodies: Marvin-KD6YJB, John-KE6CDH, Bill-KM6PY, Jerry-N6TCB, Sybil-W6GIC, Becky-KE6BUE, Paul-N6ISC, Eric-KE6CLM, and John-KE6CDH. Art-KB6YHZ and Anita-KB6YHY were absent so we had no coffee.

The goodies were great and you were rewarded with "I" participation ticket each (not per cookie ..or twinkie!)

FIELD DAY

Because of work schedules, we are sorry to receive the resignation of Larry-AB6LY.



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PRESIDENTIAL QRM WA6Y00

It won't be long until the dreamed of Amateur Television (ATV) repeater becomes a reality. In fact you will be able to see it in action at the April meeting. To our club members: Bill, KB6MCU; Gene, WB9COY; Sybil, W6GIC, and ATN's Mike Collis, WA6SVT plus members of our technical group who worked, sweated and advised, managed the paperwork, hauled, lifted, sorted, and otherwise contributed, the amateur community owes a hearty "Thanks". However, it must be recognized that "There is no such thing as a FREE lunch." Final costs will approach, if not exceed, \$4,000.00. Whether you ever use the system, we solicit your contributions to help defray the costs. Any amount, no matter how modest, will be greatly appreciated. Please make out your check to PARC ATV Repeater Fund and send it

in or drop it off at a meeting.

It's not too early to start thinking about Field Day, the last full weekend in June. We need operators, help in setting up, taking down, feeding, and all the rest that goes into this event. We were first in our class in 1991, 1992, and 1993. Can we make it four in a row? We can if everyone pitches in to help. Mark your calendars.

Kudos to those chatting on 146.73 the other day. There was an interfering station (perhaps a bootlegger) trying to interrupt using the foulest language I've heard in a long time. Obviously a case of arrested development, the language was typical of a juvenile trying out words learned in the schoolyard. Rather than trying to outperform him, our club members simply ignored him and continued their conversation. That's the right way to handle the situation: Do not stoop to the level of the interfering operator. Do not "Play"

his game. Do listen on the input to see if you can localize the signal. These characters feed off the attention they get --don't give them any!

If you would like one of the new club badges and don't normally make the monthly meeting, send me a check for \$6.50 and include your return address and what you want on the badge such as call, first name, and city. Also whether you want a pin, clutch, or alligator fastener.

At midnight, March 31, I pass the badge of ARRL San Diego Section Manager to Pat Bunsold, WA6MHZ. I wish to thank everyone for all the support you have given me. I will continue on with the title of Assistant Section Manager for Military Affiliate Radio System (MARS) Affairs. In that vein, if you have an interest in becoming a member of MARS, give me a call.

73, Harry WA6Y00.

MEMBERSHIP KC6WAN

de Ralph, Vista 727-7415

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet should send to me at the club's address or to W9FQN a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same (see Editor's address). =SK=

ASSOCIATE members who have received their new calls should report them to me along with their expiration dates ASAP so that our records can be updated. =SK=

The club is selling PARC blue hats with the PARC logo on it for \$5 and we are also selling the commemorative HAM 5c STAMP PINS for \$5. See me at meetings. Sorry, but we are out of the PARC blue shirts. If there is enough interest, we will make up another order. =SK=

FROM TIME TO TIME CLUB MEMBERS SHOULD CHECK THEIR ADDRESS LABEL TO SEE THAT THEIR LICENSE EXPIRATION DATE IS LISTED UNDER LX-yy-mm. IF YOUR LICENSE EXPIRATION DATE IS NOT LISTED OR IT IS DUE TO BE RENEWED WITH THE FCC WITHIN THE NEXT SEVERAL MONTHS, YOU HAD BETTER GET ON THE STICK AND GET IT TAKEN CARE OF NOW SO THAT YOU DO NOT HAVE FUTURE PROBLEMS. Send license expiration corrections to me at the club's address or see me at club meetings. I am the guy at the back of the room dressed in a white jump suit. I will jump for joy if you sign-up for another year or get your label corrections in to me right away.

PLEASE CHECK YOUR ADDRESS LABEL TO SEE WHEN YOUR MEMBERSHIP NEEDS TO BE RENEWED. IF IT READS 9403, THEN THIS IS YOUR LAST SCOPE AND YOU WILL NEED TO RENEW IMMEDIATELY to keep your membership current and to have access to the club's autopatches.

Membership is 751+.

(NEW)/(renewed):

3yrs= Mike-kd6vhi

2yrs= DAVID-KD6ZTJ, Merrill-

N6VMY, NORM-WB6SYV,

1yr= GEORGE-KC6QIF, TIM-NM7V, BILL-KE6EOT, Iona-ke6bue, Dan-kd6RFN, Ann-kd6rfo, Bob Montgomery, John-k6qq, n6vbc, Joe-wb6hym, Bent-kd6dce, Gary-kd6nmh, TIM-KE6DHP, David-WD6DRI, Dianne-KD6FZQ, STEVEN-KB6JFA, VICTOR-KC6ZNO, PERRY-KD6YKV, DON-KE6ECA, JIM-KE6EMR, TOMMY WILKINSON, DAVID-KE6EKX, NICK-WA6EUF, JIM-KE6BBX, ERIC-KE6CLM, SAUL LISAUSKAS, BRUNO-VE2EQ, PAUL-KD6CKT, JOHN-KE6DEZ, DAN-W2LUK

CHANGES: David KM6MJ and family (KC6STS & KD6AYF) to 2908 N. Lacey, Spokane WA 99207; Bud-KD6JKX to 718 Lester Dr Prescott AZ 86301;

NEW CALLS: Donna Creathouse KE6FIL and Joel Reed KE6CJH/AA.

ENSENADA TRIP (Cont.de.pg1)

A special arrangement has been made with the largest radio club in Ensenada, ENSENADA CLUB de JAMONES RADIO AFICIONADOS for the licenses and the use of their bi-polar repeater, XE2QRH, above Mt. Verdadero del Diablo overlooking Ensenada's scenic harbor.

DAY-1: Leave Bonsall Municipal Airport at 4:35am. All passengers travel "FIRST CLASS" aboard ENSENADA AIR's Uni-Engine Jumbo Jet. A "Welcome aboard" will be given by ENSENADA AIR's Senorita Tonta Bobbitt who will also give everyone a free AEA 2m Hot Rod Antenna guaranteed to stay in one piece.

DAY-2: Warm In-flight meals.

DAY-3: Warm In-flight meals.

DAY-4: Cold In-flight meals.

DAY-5: ARRIVE Ensenada 9pm and on to the Ensenada Hilton Basement Annex for a box dinner and a tour by ENSENADA CLUB de JAMONES RADIO AFICIONADOS of their club station which runs 1,000 watts on 2m with multiple 6AG7 transmitting tubes wired in parallel. This station, XE2FIB, achieved the first amateur radio contact with the first Mexican packet satellite, LOCO-2 (LOCO-1 was lost in space).

DAY-6: After breakfast, a

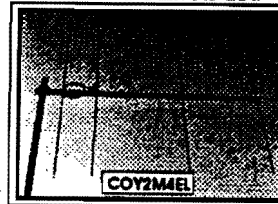
complete tour of Ensenada, from 9:30am to 9:40am with FREE TIME for shoplifting, followed by a fabulous Mexican "SEVEN COURSE" meal (A taco and a six-pack) at Ensenada's only Ham Radio Store, QRO de MEXICO serving Ensenada's ham and commercial interests.

DAY-7: Tour of the Tijuana countryside in the comfort of "BRAND NEW" rebuilt 1957 Chevy's by LOS COYOTES INTERNACIONALES who are border experts.

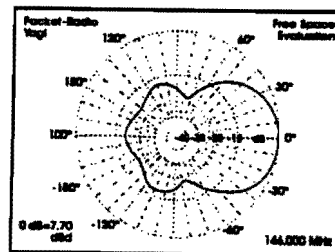
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systems

Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd



H-Plane beamwidth 60 deg
Bandwidth 144.5-147.5 MHz
SWR < 1.7 at Band Edge
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Silver Plated Teflon SO-239
Maximum Power 500 Watts
Chemfilm Treatment On Brackets
Balanced Matching System
Two Part RTV Potting
Black Delrin Insulators



(619) 748-2286
Gene Swiech, WB9COY

Jennifer A. Thieme
KM6WG

Bookkeeper
Accountant

(619) 599-1134

770 Sycamore Ave. #J-126
Vista, California 92083

REGISTERED
U.S. PATENT ATTORNEY

723-0620

Loyal M. Hanson - W9WV
Fallbrook, California

DAY-8: Back to Ensenada for a tour of the University of Baja California (both buildings), where everyone will get to see the book in the Health Science Library.

DAY-9: A special escort by the famed ENSENADA MOTORCYCLE POLICE to the Ensenada airport to board your Uni-Engine Jumbo Jet to the U.S.A. There will be only three quick stops --two for fuel and one for directions.

DAY-10: Warm In-flight meals.

DAY-11: Cold In-flight meals.

DAY-12: Arrive Bonsall Municipal Airport between 10am and Midnight, depending on weather conditions ..and fuel leakage (Note: please return the AEA Hot Rod Antennas before you disembark).

This 12 days and 4 nights excursion is a once in a lifetime trip so sign up now at the April 6th club meeting and have your checks(*) made out to the PARC ATV fund.

*INCLUDES all transportation, meals, drugs, tours, transfers, accommodations, morditas, First Aid, and parachutes (packed by AVIONES FINALES de MEXICO).

WB6IQS REPEATERS W9FQN

On February 27th members of the Site and Technical committees met to discuss work what needed to be done at the repeater site. Many things were discussed and you can contact WB6IQS, W9FQN, KC6UQH, AB6QT, WB6FMT, KB5MU, N6ZUC, or KD6VHI for information on the meeting. W9FQN has the "minutes" of the meetings if you want to see them.

Jerry-WB6FMT demonstrated the new autopatch system boards and the test set he designed. Under questioning we learned that he has put in over 100 hours on the new boards so far.

Most of the items were just little things that needed to be done with each of the repeaters and antenna systems. In general it was decided that since all of our "eggs are in one basket" that we needed to continue making additional backup equipment for our present repeaters along with "spare" antennas.

It was also decided to look into the possibility of TASMA permitting packet on the RTTY REPEATER (not a digi-peater node). There were suggestions made of operating RTTY during part of the day and Packet the rest of the day. It was also suggested to convert it completely over to Packet. The inves-

tigation will continue. It should be noted that it is not the intention of the club to abandon the use of RTTY on our repeaters so those of you who we got excited about RTTY, keep on working on your IBM RTTY adapters. TASMA coordinators will be contacted before all proposed changes.

The committee would like to encourage amateurs with and without experience who are interested in repeaters to contact W9FQN to get your name on the list for working on several repeater projects. We can always use new and additional help.

Several small projects: re-do the alarm system, clean up the site, finish the grounding system, start several repeater modification projects, and complete computer diagrams of site, towers, and feedlines. Possibly you have a "pet" project that you would like to start for the club. CONTACT W9FQN.

The ATV committee is working on their own and were not a part of this meeting although we did discuss SCRUBA ATV coordination problems. =SK=

From time to time the control operators see a situation developing where it is advisable for them to turn off the time-out timers to avoid a potential problem. This usually is indicated by there being no "beep" on the repeater at the end of a transmission. Please do not talk about what is being done or ask for a control operator to explain why he did it. DO NOT TALK ABOUT THE REPEATER BEING TAKEN OFF OF THE TIME-OUT TIMER. Just continue your QSO as if nothing has changed.

Control Operators in general will not respond to your request for a control operator so that you can ask him questions about what is being done. If you have a specific problem about control operator actions (or non-action), address your written communication to W9FQN and he will contact the control

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Pete W3ARU's XYL

operator in question to get answers for you.

COP's have been instructed not to discuss control operations over the air so don't try to engage them in conversations about control functions or actions. =SK=

WB6FMT AUTOPATCHES W9FQN

Jerry-WB6FMT and Stan-W9FQN worked on the 2nd generation autopatch system for Palomar

Mountain and have completed five boards (1 spare). Jerry drew up the new schematic taking into account several modifications and additions needed to make the new system more versatile but the basic system remains the same as the old system. Jerry bought all of the parts. John-WB6IQS made up the printed circuit boards and etched them. Stan-W9FQN and Jerry set up a production line and finished on the remaining four boards with several afternoons of work.

The 2nd generation boards have unlimited time for 911 calls, a special busy signal signal for the autopatch being used on one of the other three repeaters, the ability to have all repeaters have the same first two digits being the same, and an input for a computer which can monitor and control most operations when needed.

Since we will be able to change the access codes more easily with the new system, we might change them this Spring when the new system goes into operation although it might be more logical to change them in August when our biggest change in membership occurs. If we change the codes this Spring, the new codes would probably go into effect May 29th. Keep checking your label on your SCOPE to see if they have changed and what the new codes would be.

NEWS

Contributions to =NEWS= should be sent to your editor by the 20th of the month. =SK=

NOVICE/TECHNICIAN Class to begin Monday, April 4th at 7pm at the Carlsbad Safety Center. INSTRUCTOR: Bill, KB6MCU. Cost is \$10 plus \$19 for the book "NOW YOU'RE TALKING". The \$10 is waived for club members. Spread the word among your friends. =SK=

The **ESCONDIDO** Amateur Radio Society will hold its annual auction on Mondy, April 25th, at the Redwood Retirement Center, 13th

& Redwood, in Escondido. Sellers register at 6:30pm and auction begins at 7pm. =SK=

Kelly Seals, KD6IVD, received his Eagle Scout award March 7th. Kelly will graduate from San Digueto High School this Spring and has already been accepted by UCSD and UCLA. Ken-KA5Q is the proud parent. =SK=

Beginning March 1st the FCC will accept only the new version of its Form 610. This applies to everyone. (de ARRL) =SK=

Joey-NU6L reports that Ed Jankowski-W6KCB will soon be launching his 70' cruiser with trips planned to Alaska and then to the San Diego area. So look for W6KCB/MM starting in sometime in April. =SK=

Rod-AC6V is interested in phonetic alphabets, time of use, amateur, and military. If you can help him with this project, please contact him on 146.73 or give him a call at 945-6050 Oceanside. =SK=

Dick Powell, W6OML, of International Marketing Associates, in Sun City, teaches courses at National Univ. on International Marketing as well as doing Marketing programs for business organizations. Dick has been a long time member of PARC and was with SWAN in 1979 when they changed their name to Cubic.

Leo (Mac) McCullough, N6BA, a member of PARC, was founder of SWAN and now heads up MACAW Electronics International Corporation in Carlsbad which deals with RF Communications Equipment throughout the world. Leo has over the years provided PARC with radios for various projects. Most of the autopatch sytem was made up around radios which PARC obtained from Leo. Susan Rohrer, N6QDB, your editor's daughter, works for Leo in their International Sales (Spanish Speaking Country Division). (Looks like the amateur radio, Spanish lessons and travel finally paid off -Ed) =SK=



FORESAIL *****

 (No Stink Pots Wanted)

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of month with ur NAME, CALL, Ph #, & CITY. Personal ads R FREE 2 members. All others cost 25c/col. line (36spaces). =SK= (03-07) XT-5.25FD, HD, mono-chrome monitor, keyboard, misc softPware \$150/orB0; Software-Design CAD 3-D, Peachtree Complete III, WordPerfect 5.1 w/man & disks: Jennifer KM6MW 599 1134 Vista.

(03-06) Standard Communica-tions SIA15 Speed Impeller, 11,000 pulses per nautical mile. See W9FQN (with the yellow box) at meetings to view the instructions.

(03-05) NetwrkSys, 386-25 server wrksta, Mitsubishi VGA Mon, 2-additional wrksta cards, 2HD (40&67MB), math coprocessor, tape backup w/tapes, DOS 3.3, Novell ELS Netware, netwrk ver of software, dot matrix color printer, call 4 details, \$1500/B0 4 complete sta-tion: Jennifer KM6MW 599 1134 Vista.

(02-17) Bearcat 100XL portable scanner vhf/uhf w/case box manual & charger \$85: Jerry WB6FMT 758 4388 Vista.

(02-10) Yaesu FT-ONE w/YD-148 mic & manuals \$150; Yaesu FC-102 Ant tuner \$75; Kenwood R-2000 gen cov rcvr \$300: Jeff KJ6QO 441-9870 El Cajon. HE DOESN'T SEEM TO BE ANSWERING HIS PHONE!

(02-07) IC-24 2m/70cm HT w/PL encode/decode module, charger, 1.2Ahr Periphex ragchewers batter, standard .3mah bat, all ex cond \$400/offer or trade HF xcvr HW-101, ant tuner, KW linear etc: Mike Hamann WB6CSH POBox 2831, Fort Bragg, CA 95437.

(01-20) NOTE: to the ham that bought the Bearcat 23C CB rig from me at the '93 PARC club auction, I have the manual now: Nash W6HCD 728 3574 Bonsall.

(01-15) NOTE: de WB6IQS to the ham that bought my Tempo HT ..I found the "lost" leather case for

it. Contact John at 724-8380 Vista. (01-12) FT-1012D MRK III with FV-101DM digital VFO 10-160m digital readout w/memories excond \$475: Wayne W6RWV 724 0777 Vista.

(01-08) Heathkit HW-101 80-10m xcvr w/HP23 pwr sup & mic new finals aligned & adjusted \$235 or best offer: David N9PVF 675 2249 Poway.

(01-06) ICOM 229H xcvr 50w mobile + ant never used \$330; 7mo old seldom used JVC Karaoke w/disc player and remote control \$499 sell \$350: Tito KD6SYE 575 5342 ImpBeach.

STOLEN Dec22nd: Yeasu FT-2400 #20160533; Cobra 40ch CB; Realistic 40ch CB HT: Clint KD6JXW 758 3312 Vista

STOLEN Dec14th: Alinco DR-570T #0002163, RCI 2950 10m xcvr #921409, and M-300 10m amplifier: Dan KC6PRW 742 1642 or 4325.

(12-16) Yeasu FT-747 w/FM/mic/man ex \$550; Multi-2000 multimode VHF radio w/mic gud \$150; MFJ 901 ant versa-tuner HF 300w \$35; Heathkit HA-20 6m linear amp 10in/125w out gud \$125; Wavetec 3000-200 RF SigGen 1-512MHz, digital 50ohm step atten .1micV-1V CW/AM mod 400Hz or 1KHz mod, FM dev meter, needs work \$350; vacuum pump 0-30in Hg \$100; IBM PC/XT turbo 2-360k floppies 10MB HD, prt port, CGA card & color monitor, software ex \$200; same but Hercules video card \$125; 2ea xerox D80 daisywheel printers new programmable \$75 ea; Okidata m83A wide carriage print ex \$60; Epson MX100 wide carriage printer Graftrax \$75; Link 220 dumb terminal \$25; Daewoo 220 dumb terminal \$25; 2ea uninterruptible pwr supplies, batteries gud but need repair 120VAC @ 4.5A \$25ea: Eric KB6EP0 day 545 7068 eve + wkends Mexico 011 5266 820283. Need room to sit down.

(12-01) Yaesu FRG-7 rcvr gud cond original carton w/YH-55 head-phones, bat & dust cover \$125: Dave WA6HQM 753 2605

(7-8) Commodore C-64 computer complete ex cond monitor 2-drives

2-printers 80col card mem-exp card software RTTY interface + books \$200: Henry N6JWF 945 1247 Ocsd. GUD WAY TO GET ON RTTY AND RUN CODE!

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6-18) Drake w4 wattmeter .2-2kw scale \$55; TENTEC squeez keyer \$55; battery charger D-A-C cost \$30 now \$9; mobile 3.5" cone spkr \$8; SCANNER R/S mobile + 110vac w/mt bracket w/out of area xtals UHF/VHF \$20; E Voice Mic 674 W/stand & cord \$25: Larry W7HKI 439 5855 Ocsd.

APR'94

ESTATE: DrakeTR7 w/pwr/tuner \$400;
SWAN Cygnet270B+tube \$75, ATLAS ham
band rcvr \$25; ITC(M-2000) 2m xcvr
FM/SSB/CW digital tuner \$50; PANASON

rcvr ac/dc .5-1.6, 30-50, 88-100,
148-174, 450-470MHz \$25; TTPwr 12DC
\$15; TEMPO watt/swr200-2000W HF\$25;
W6SMP by Craig WJ6U 745-2034 EveEsc

=====

HIGHWAY ELECTRONICS:parts,(new/old)
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open(10-3pm),305 Wisconsin Ave,Ocsd
=====

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

"Start houted men)

EXAM TEAM: WA6Y00, WB6R,
AA6TR, WA6HYC, and KI6JM.

TEST TEAM FOR JAN was: WA6NYC,
N6RUV, WB6R AA6UQ, AA6OM, KI6JM,
KE6VX, & N6ZUC.

73, Rusty-AA6OM

- A G O G O -

(03-14) Schematic for URN-25F
SigGen: Dennis N6KI 271 6079 SD.

(03-03) To share booth at ARRL
SW DIV Convention 26-28 Aug in San
Diego: Duane AA6EE 789 3674 Ramona.

(01-19) Disk programs for MFJ-
1278 multimode to be used in club
project: John WB6IQS 724 8380
Vista.

(03-15) HF xcvr 12v-110ac for
IOTA(expo)possible early ATLAS 80-
40-20 also electronic keyer/paddle
Larry W7HKI 439 5855 Ocsd.

(12-12) DC curent probe for
Tektronics AM-503 and/or scope DC
to 50MHz: Stan W9FQN 749 0276
VllyCtr.

(12-10) Baja Ham, XE2XU, is
looking for a 12v HF radio for 80-
40-20. Possibly early Atlas: Nash
W6HCD 728 3574 Bonsall.

(12-6) To copy manuals for
Zenith laptops ZWL-0200-02 & ZWL-
184-97. Also need a hard disk drive
for the #97: Mike AB6QT 742 1573
P.Mt.

VE TESTING AA6OM

N.Co.FCC LICENSE EXAMS given
by the PARC VE Team @ Carlsbad
Safety Ctr, Carlsbad (Camino Real
to Faraday, 14F6, follow CSC signs
East) on 2nd Sat. @ 10am.
Reservations less than 2da in
advance & walk-ins not normally
accepted. VE info: call 465-Exam or
Rusty at 747-5872.

610 FORMS AVAILABLE: HRO, 5375
Kearney Villa Rd. or at club
meetings from KB6NMK or W9FQN.

FEBRUARY 28th TESTING: 10
candidates for 13 el with 10
passes. Results were:

GEN->ADV: Nick-KD6JUZ, Morris-
KA6MEM, Jim-WB6LEH, Susan-KD6JXL,
Duane-KC6QHU, and George-KC6QIF.

NONE->TECH: Bill Hodge.

The American Digital Radio

Society has acquire the RTTY
Digital Journal, and will retain
Dale Sinner, W6IWO, (Fallbrook) as
its editor. You can get a free copy
of its newsletter at ADRS, Box
2465, New York NY 10185 or BBS 212-
698-2102. (de ARRL) =SK=

In 1993 ARRL members sent
about 7.25 tons of QSL's to the
ARRL Outgoing QSL Service. This was
2,182,000 cards for DX destina-
tions. (de ARRL) =SK=

The ARRL has petitioned the
FCC to provide the amateur service
with primary allocations from 902
to 904 MHz and from 912 to 918 MHz,
with certain geographic limita-
tions. Amateurs already are allo-
cated from 902 to 928 MHz on a
shared basis with several other
services. (de ARRL) =SK=

An ARRL committee will study
the possibility of relocating the
40-meter Novice sub-band with a
report coming in July 94. (de ARRL)
=SK=

The ARRL will begin to notify
members of license expirations, and
will include a Form 610 to effect
license renewals. (de ARRL) =SK=

The ARRL will study the feasi-
bility of offering group legal
defense insurance to ARRL members
to cover legal costs in antenna
cases and RFI lawsuits. (de ARRL)
=SK=

HANDI-HAM NETS

(Listed in Central Time)

Monday Nets:

14.265 MHz SSB 9:30-10:00
28.390 MHz SSB 10:00-10:30
21.422 MHz SSB 10:30-11:00
7.272 MHz SSB 15:00-15:30

Saturday Net:

7.112 MHz CW 10:30

All are welcome to check in
with their comments, then stand by
for others to check in.
Participants may ask to move off
net frequency if they wish a
private contact. WOZXW is the
callsign. =SK=

N E W S Continued

The TONO Corp of Japan is
producing a PR-1300 wideband xcvr
capable of communicating with the
430MHz amateur band. It works in
weak signal areas and has a built-
in scrambler with an anti-
wiretapping function. One wonders
what commercial application this
might have? (de N6KI). =SK=

Buck-WW6E and Mary were in
SDCo around the 26th of February
for several days and they wished
they could have talked to more of
their old friends. They now live in
northern Oklahoma. =SK=

DOVE (Oscar 17) is sending
ASCII telemetry and short text
bulletins on 145.825 MHz. WDOE
would like to receive telemetry
reports on this newly reactivated
satellite. Pse send them to
vk7zbx@ko-23, @AO-16 or on INTERNET
to vk7zbx@amsat.org. The 3-8-92
TLMDCII program from AMSAT-NA HQs
at POBox 27, Washington, DC 200044,
will decode the telemetry nicely.
=SK=

Traffic Handling

There is nothing frightening or mysterious about sending message traffic. The San Diego County Traffic Net is on 146.730 at eight o'clock every night.

We are all learning and make many mistakes but listen before you jump in so you know the procedure. Send at least three messages a year and volunteer to deliver some in your area you'll find it quite rewarding. Tell your relatives and friends to ask for and keep the phone number of the ham delivering the message so they can send messages to you too.

Time
message
first trans-
mitted.
(not often
used)

| | | THE AMERICAN RADIO RELAY LEAGUE
RADIOGRAM
<small>VIA AMATEUR RADIO</small> | | | | | |
|--|------------------------|--|------------------------------------|--|--|---|-----------------------|
| NUMBER
38 | PRECEDENCE
R | MODE
E | STATION OF ORIGIN
KB6NMK | CLASS
REL
12 | PLACE OF ORIGIN
ESCONDIDO CA | TIME FILED | DATE
8-8-93 |
| TO
<div style="font-size: 1.2em;"> John Q. Public
 13 Any Street
 Any town CA92604 </div> | | | | | | THIS RADIO MESSAGE WAS RECEIVED AT
AMATEUR STATION _____ PHONE _____
NAME _____
STREET ADDRESS _____
CITY AND STATE _____ | |
| TELEPHONE NUMBER (619) 543-2729 | | | | | | | |
| ARL
Fair
x | | fifty
x
love | | one
See | | Del
you | |
| | | | | | | Mar
soon | |
| <div style="text-align: right; font-size: 1.5em;"> Joe ← </div> | | | | | | | |
| REC'D NGRVO | | FROM 8-8-93 | | TIME 16:30 | | SENT N6MVP | |
| | | DATE 8-8-93 | | TIME 20:15 | | | |
| <small>THIS MESSAGE WAS HANDLED FREE OF CHARGE BY A LICENSED AMATEUR RADIO OPERATOR, WHOSE ADDRESS IS SHOWN IN THE BOX AT RIGHT ABOVE. AS SUCH MESSAGES ARE HANDLED SOLELY FOR THE PLEASURE OF OPERATING, NO COMPENSATION CAN BE ACCEPTED BY A "HAM" OPERATOR. A RETURN MESSAGE MAY BE FILED WITH THE "HAM" DELIVERING THIS MESSAGE TO YOU. FURTHER INFORMATION ON AMATEUR RADIO MAY BE OBTAINED FROM ARRL HEADQUARTERS, 225 MAIN STREET, NEWINGTON, CONN. 06111</small> | | | | <small>THE AMERICAN RADIO RELAY LEAGUE, INC., IS THE NATIONAL MEMBERSHIP SOCIETY OF LICENSED RADIO AMATEURS AND THE PUBLISHER OF QST MAGAZINE. ONE OF ITS FUNCTIONS IS PROMOTION OF PUBLIC SERVICE COMMUNICATIONS AMONG AMATEUR OPERATORS. TO THAT END, THE LEAGUE HAS ORGANIZED THE NATIONAL TRAFFIC SYSTEM FOR DAILY NATION-WIDE MESSAGE HANDLING.</small> | | | |

Call of station receiving if sent on radio, and date and time.
Name of person receiving if delivered by phone. Could be a family member. If you are unsure leave a number and ask to be called back by addressee. Try again later. Date and time only when you finally deliver.

When sending traffic read slowly and clearly - visualize yourself writing the word as you say it. Only spell unusual words or names with unusual spelling. Use phonetics for call signs or if the receiving station asks for a fill on a word you have already spelled out.

The ARRL has some standard messages that can be used to shorten the word count, used: ARL forty six (word count = ARL 3) means: Greetings on your birthday and best wishes for many more to come. (word count = 12). This could be followed by an X-ray and up to 21 more words of message. Use X-ray to separate ideas or paragraphs but no other punctuation. See The ARRL Net Directory (\$1) for other ARL messages, handling instructions and other traffic information.

 SAN DIEGO COUNTY TRAFFIC NET -N6TEP

The San Diego County Traffic Net (SDCTN) operating nightly from 8-9pm on W6NWX, 146.73 MHz, was originally intended as a training net for traffic operators and is run strictly on FM voice, passing a typical average of 12 messages max. per night.

A greatly increased traffic load, mostly due to MARS (Military Affiliated Radio System), necessitated faster traffic handling methods. Tape recording allows reading messages at normal talking speed. It helps, but not enough. MARS operators, who already have the traffic in digital form, then fed larger volumes of traffic to a few PARC members equipped with RTTY, who then contacted the addressees by phone. RTTY is many times faster than voice and only serves as an internal expediting device within PARC to squeeze many more messages into the allotted hour and reduce errors.

One of the greatest hurdles at the end of the chain, the need to make long distance calls to addressees outside the message taker's local phone prefix, became too costly for the members involved. We can't expect to have enough check-ins every night to cover all San Diego County prefixes by local calls. The Club then instituted phone patches that (among other things) allow ANY member to call anywhere in the County to deliver traffic net messages by radio at no cost to the members.

So far so good. But what about OUTGOING messages that used to go via SCNV to NTS (outside the 619 area code)? Most of us can't access the repeater that now handles that traffic (146.82 -Ed). We had to come up with a new way.

Solution: PACKET. Not everyone has packet TNC or knows how to work it. But there are some members on the traffic net that can. WE HOPE TO GET MORE OF THEM, RTTY as well

as PACKET.

As it turns out, that traffic net has become one of the most essential services this club performs to the community. Our repeater location on the mountain and the excellent technical equipment and management of the facility are second to none, including the ability to stay on the air for extended periods if the power goes off (3,600 Ahrs @ 15VDC -Ed).

We have a PACKET node on the mountain (W6NWX-1) addressable by Packet as "PALMAR" on 145.05, that can reach almost any Packet station in Southern California, if the station is not reachable directly from the location of the calling station, as long as the called station is tuned to 145.05.

What does Packet do that nothing else can? We'll explain how to access the National Traffic System (NTS) through Packet and send messages to individuals outside the 619 area code. It's easier than most people think.

Here is how to get a packet message into the National Traffic System (NTS) using a PK232MBX TNC on 145.010 (other units will function almost the same -Ed). Call up packet screen. Press F3. The call sign box appears. Type in: NTSBBS and press <enter>. NTSBBS is operated by KI6MP in San Diego but answers to NTSBBS. Wait for connect signal to NTSBBS. NTSBBS will prompt you for what you need to do.

Type in the command ST <ZIPCODE> @ NTSXX, where ZIPCODE is 5 numbers of the zip code of the addressee, XX is 2 capital letters indicating the State where the message is going (spaces are as typed). The following is the general format:

ST ZIPCODE @ NTSXX (XX=state)
 QTC ZIPCODE CITY 801-471-0439 (Ph)
 NR XXX CH YY <CITY OF ORIGIN ZZ>

(XXX is number of message)

(CH is check & YY is word count)

(ZZ is 2-letter state)

TO <NAME>

ADDRESS (PO Boxes R not accepted)

CITY <AB> (AB=state)
 BT (BREAK for text)
 <TEXT> (no ARRL abbreviations)
 BT (BREAK for text)
 SIGNATURE

/EX or press <Control-Z>

(this means end of message)

B (this means "BYE")

- - - - -

Example:

Connect to NTSBBS, then
 ST 82069 @ NTSXZ (Denver, Arizona)
 QTC 82069 DENVER 801-471-0439
 NR 607 CH 7 SAN MARCOS CA (NR=Msg#)
 TO JOHN SMITH (CH=word count)
 1234 ANY STREET APT 14
 DENVER AZ 82069

BT
 HAPPY BIRTHDAY AND MANY MORE
 TO COME

BT
 BILL
 /EX
 B

- - - - -

If another message is to be sent, DO NOT TYPE B. Instead, leave one blank line and type ST <ZIPCODE> @ NTSXX etc. again to start over for the next message.

Note that some of the information is redundant but that is because the heading is used for the computer BBS directing of the message and the other part is used in delivering the message once it gets to its destination.

More detail or further explanation can be had from: Dennis-K7DCG-748-9046; Rod-AC6V-945-6050; Bob-KI6MP-450-0357; or Charles-N6TEP-471-0439.

Please let your Editor know about your experiences in using the NTSBBS.

FIELD DAY

PARC needs a new FD chairman. We need to have someone who can ram-rod the activity. You need not be a contester but should have some organizational skills. Contact Harry-WA6Y00 or a board member.

FD Equipment Chairman is still Bill-KB6MCU.



1994 ARRL S.W. Division Convention
San Diego, California, August 26 - 28, 1994
Town & Country Convention Center

P47

APR'94



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Name _____ **Call** _____

Name _____ **Call** _____

Name _____ **Call** _____

Address _____

City _____ **State** _____ **Zip** _____

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Mail this form and check to: 1994 ARRL S.W. Division Convention
Bob Boehme, W6RHV, Registration Chairman
10340 Everell Place
Santee, CA 92071

For additional information, please phone (619) 278-4284

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 |

if I'm at the keyboard.
BEACON I can also accept "fites"
can only turn off the MAILBOX
mailbox, or put them in mine if I
and can pick up things from your
schedule. I am on packet now (.05)
month because of a personal
SCOPE is a little early this

749-0276, 11:30am or 9:45pm
Valley Center, CA 92082-4806
Stan-M9FN 30311 Circle R Ln



R O I O R

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.

A L E R T: PLEASE SEND A QSL, POSTCARD, OR LETTER TO EACH U.S. SENATOR: Barbara Boxer and also Dianne Feinstein, 112 Hart Building, Washington, DC 20510

Ask them to become COSPONSORS of the important Amateur Radio Service Joint Resolution, S.J. Res. 90 which would help us retain our frequencies. See page 54, January '94 QST for more information. We need 50 more senators.

Also write to your U.S. Representative. In the House it is H.J. Res 199 (ARS Joint Resolution) and also H.R. 2623 (ARS Volunteer Service Act) which deals with the amateurs legal status: limits liability exposure when doing volunteer services on behalf of the Amateur Radio Service as provided by the Communications Act of 1934. Representatives for San Diego County are-

"Duke" Cunningham Ron Packerd
Duncan Hunter Bob Filner

Lynn Schenk

We need 218 more representatives to sign on as cosponsors. =SK=

SCOPE

US Post Office # 076530

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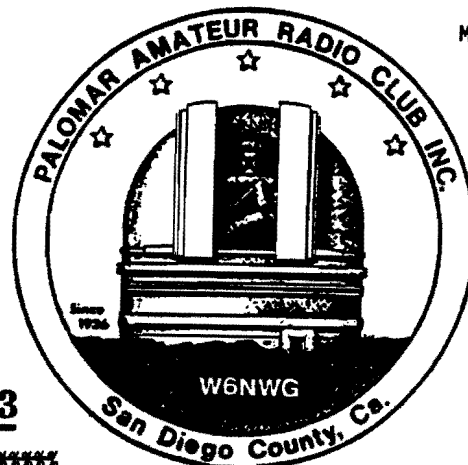
- Pg. 1 ATV, Ensenada Trip, Meetings
- Pg. 2 Board, Minutes Last Mtg ... Ad
- Pg. 3 Pres. QRM HRO Ad
- Pg. 4 Membership 2Ad
- Pg. 5 Repeaters 2Ad
- Pg. 6 Autopatches, News 2Ad
- Pg. 7 For Sale 2Ad
- Pg. 8 Ham Testing(VE) 2Ad
- Pg. 9 RADIOGRAM, Traffic Net .. 2Ad
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- Pg. 11 SD Co. SW DIVISION CONVENTION

Scope

W6NWX

Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073



MAY ***** 1994 ** 58 YEARS OLD

Volume XX, Number 05

Published monthly by PARC

an ARRL Special Service Club

Membership \$12including \$3for SCOPE
Coffee 7:00pm & Meeting at 7:30 pm
Carlsbad Safety Center(CSC),Palomar
Airport Rd.to N.on Camino Real(S11)
east on Faraday .25 mi,left to CSC,
ThomasBro.Pg.14F6. Talk-in 146.730.

*** E L M E R S *** (call for info)

CARDIFF, . Duane-WB6R,753-4821

CHULA VISTA, Steve-N6RUV,422-4415

ESCONDIDO *** Harry-WA6Y00,743-4212

*** PALOMAR AMATEUR RC PRESIDENT

La MESA, . Roger-N6UW,697-6025

LAKESIDE, . Mac-WB6GX,561-2211

RAMONA, . Vern-AA6UU,789-3070

SAN DIEGO, . Dennis-N6KI,271-6079

\$AN MARCOS\$ ** Ralph-KC6WAN,727-7415

*** PARC MEMBERSHIP CHAIRMAN

VISTA, . . . Jack-KI6JM,598-0420

SAN MARCOS, Rusty-AA6OM,747-5872

(Head PARC VE testing program)

Prospective amateurs ONLY can call

1-800-32-NEW-HAM @ the ARRL Hdq

8am-5pm ET M-F for Ham Info.

Ham Radio info: call ARRL Hdq. 8am-

5pm ET M-F, 1-800-32-NEW-HAM

I N S I D E:

Pg. 2 Board, Last Mtg, New Ham..2Ad

Pg. 3 Pres.QRM,Membership .. HRO Ad

Pg. 4 Membership, ATV 2Ad

Pg. 5 Repeaters, Autopatches .. 2Ad

Pg. 6 Autopatches, Letters 2Ad

Pg. 7 For Sale, Wanted Ad 2Ad

Pg. 8 WANT,VE,WrkParty,Ed,AGOGO,NMK

Pg. 9 Packet, News

OPEN REPEATERS / CLOSED AUTOPATCHES

PALOMAR MOUNTAIN REPEATERS(W6NWX):

Autopatches:146.73; 147.075; 147.13

449.425 and 146.7 RTTY

PACKET: 145.05 and 70 cm METROLINK

SIMPLEX: 145.350; 145.520; 446.000

ATV:1241.25(out)/919.25(in);146.43s

OTHER: 224.9(WD6HFR);146.175(WA6IPD

(all repeaters 107.2 PL except .73)

COVERING 2000 SQ-MI OF SAN DIEGO CO

R T T Y N6ALA

RTTY is still alive and well

on amateur radio and needs your

support to work well on the new

146.7 repeater up on Palomar Mt.

Art McBride-KC6UQH came up

with a good converter for 170 Hz

shift RTTY on FM. For those that

don't know, he is also Vice

President of our club.

The RTTY converter uses a pro-

gram called HAMCOM21 that I found

on Radio Sport BBS down in SD. It

works quite well with this con-

verter. Art has even used it to

copy one of the AMSAT satellites

(Oscar 13) on 170 Hz shift RTTY.

This would make a good board

for the beginning ham to have fun

with and is easily built.

The board of directors of PaRC

are thinking of making the RTTY

card as a club project, but in

order for that to really come

about, it is up to us to show our

support for the project by getting

in touch with Art or one of the

board members so that they will

know that our club members would

(Cont.pg.2)

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

Apr31 ENSENADA TRIP CANCELLED *****

May 4 Wed. Palomar ARC Club Meeting

May14 Saturday PARC VE Carlsbad SC

May12 Thur. PARC 7pm Board Meeting

May20 DEADLINE FOR SCOPE ARTICLES

May24 SCOPE placed in mail at Vista

Jul2-4 DelMar Fair AR DEMONSTRATION

Jun11 Heartride(.13),5 ,35 , & 50mi

Jun25-26 PARC FIELD DAY *****

Aug26-28 SW DIV CONVENTION SanDiego

NEXT MEETING KC6UQH

Art McBride-KC6UQH, VP and

program chairman, has announced

that the May club meeting will be a

program by Terry Dubson, W6MKB, on

his DX-Expedition to 3Y0PI. Terry's

photography is always excellent and

so it should again be another

excellent meeting. Bring the family

..or a friend.

SHOW & TELL: Talk to Art-

KC6UQH B4 the meeting to reserve

time for UR S&T item(s).

##-SK-#####-SK-##

We regret to announce

the passing of a part-

time helper of the fold-

ing and stapling group,

NORM ASHLEY, the husband

of Jo-KB6NMK, and the

father of Terri-N6UZH &

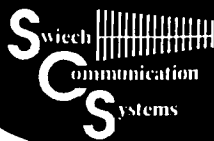
AJ-KB6NML.Until his death#

he continued to carve

magnificent Kachina Indian

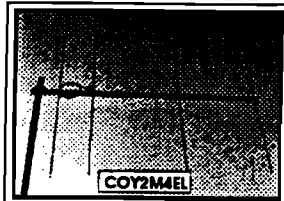
figures.

##-SK-#####-SK-##

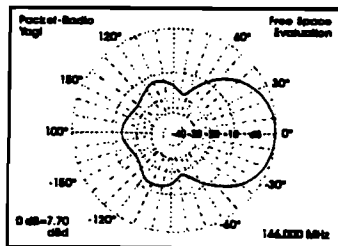


Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd



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Balanced Matching System
Two Part RTV Potting
Black Delrin Insulators



(619) 748-2286

Gene Swiech, WB9COY

BOARD MEMBERS present:

President: Harry Hodges, WA6Y00
VP President: Art Mc Bride, KC6UQH
Secretary: Nash Williams, W6HCD
Treasurer: Jennifer Thieme, KM6WG
RTechnical: John Kuivinen, WB6IQS
SCOPE/etc: Stan Rohrer, W9FQN
Membership: Ralph Powell, KC6WAN
Board Member: Mike Doyle, AB6QT
Board Member: Rick Zimmermann, KC6LV

- also present -

Constitution: Jack Hanthorn-KI6JM
OTHERS: Bill-KB6MCU/Syb11-W6GIC(ATV)

Club members are invited to attend Board meetings to observe the Board of Directors in action ..or non-action ..and receive one activity pt. for attending. GREAT BROWNIES, HARRY! (Time 7pm-10pm)

- SECONDS -

DISCUSSED: EquipBa1 \$2804, General \$533, PrePd \$3854, Total \$7190; RTTY board investigation W9FQN; new stationary & business cards W9FQN; 145.05 probs WB6IQS; 911 calls; 1-800 Auto Club; ATV Phases 1, 2, & 3; 439.05 not coordinated for PM; G. Rios 220; MCU's ham class(17); ATV tower requirements; badges and Ad billing statements; FD possibilities for '94; answers to letters; computer logging of phone calls and possibilities.

APPROVED: Club Picnic Sept 18th; \$1000 transfer to GenFund (this is due to \$1000 being taken from the GenFund rather than the Equip fund -Ed); SCOPE to N6MCU for doing NEWSLINE Sunday evenings.

Please contact one of the board members for more info or see the secretary for written minutes.

NEWSLETTER HELPERS APR. SCOPE

KI6JM, Jack Hanthorn, folding, Refresh
KC6WAN, Ralph Powell, printing labels
W6TFB, . Lloyd Hunt, . folding
KD6RFM, Emilio Spelgatti, folding
WA6Y00, . Harry Hodges, . Staples
N6TCB, . Jerry Carter, . labels
W9FQN, Stan Rohrer, Editor, PO Forms

The Fold-Staple-Multilate-The-SCOPE-group meets at Jack-KI6JM's QTH in Vista at 12:30pm & finishes abt 2pm. WE CAN ALWAYS USE MORE HELP. FSMTS is Tues of the week B4 club's 1st Wed club meeting. Receive 1 activity pt 4 participating in fun & games. Jokes told R "out of this world!"

LAST MEETING

In attendance were 105 members, 19 guests, for a total attendance of 124. PLEASE COME EARLY and help set up chairs.

Bill-KB6MCU, Mike-WA6SVT, and Gene-WB6COY demonstrated the new Amateur Television Repeater which they built for the club.

ART-KB6YHZ supervised the coffee and BECKY-KE6BUE and GERRY Jones (Assoc.) supervised the drink and goodie table with members bringing goodies: WA9LFR, AB6IU, WA6Y00, N6TCB, KE6BUE, KM6PY, KE6CDH, K6YKG, N6ISC, KK6LX, KD6JYB, KD6YKX, & WB6GXR.

The goodies were great & U were rewarded with "1" participation ticket.

RTTY ***** Cont.de.pg1 like this as a club project. That will tell them to go ahead and have the boards made, and to set a price for the boards.

Also more people would have a way to pass traffic over the RTTY machine in case of a disaster in the county or other counties as well.

So please, if you would like an RTTY board, let Art or any of the Board members know that you want one.

John-WB6IQS has done the art work.

The cost per board will be less if we are able to get a larger number made. 73, Ken Stubblefield-N6ALA. =SK=

NEW HAM S

(and some old Hams who forgot)

Because of the large number of new hams which have been using our repeaters, PARC feels that it should let them know about ham traditions. Send your contributions to this section to your editor.

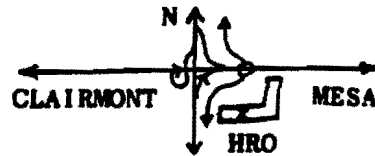
When calling a friend on the repeater use the following format:

N6QDB THIS IS N6YZZ

That is really all you need. Don't add things like "are you there?", "are you monitoring?", and "are you there Jeff?" If they are there, they will hear your call and answer you with your short call.



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PRESIDENTIAL QRM WA6Y00

My XYL and I just returned from the International DX Convention in the garden city of Visalia. Didn't win any prizes but had the chance to meet several DXers who I had worked on one of their DXpeditions. If you have never attended, think about going, it's a fun weekend!

Speaking of conventions! The ARRL Southwestern Division will be held the last full weekend in August here in San Diego. Many technical forums, great prizes, banquet and DX breakfast, T-hunt, and on and on. See me or WA6MHZ at our meetings for registration information. You can also pick up a form at HRO.

After winning the 5A category for three straight years, it seems that the "team" has decided to go on to other things. We have advertised for a Field Day Chairman, but as yet we have not had an

applicant. At the most recent board meeting, it was decided to scale back this year and perhaps do Field Day from the Del Mar Fair, perhaps in some other category. We will take a look again next year. If you have any other ideas, let the board know.

I have had the opportunity to watch the ATV repeater in action on the test bench. What a machine! I am looking around for a color monitor so as soon as it goes up on the mountain I will be able to observe what's going on until I can obtain a transmitter. With the sun spots declining, it will keep me active in a new arena. If you would like to contribute to this project, send a check to the PARC ATV Fund, POB 73, Vista, CA 92085-0073. Any amount, no matter how modest, will be appreciated.

Our membership continues to grow so maybe we're doing something right. If, however, you see room for improvement, please give me a call. It's your club. You have a

voice. I may be out but you can leave your number on my machine and I'll get back to you. That's a promise.

73, Harry WA6Y00.

MEMBERSHIP KC6WAN

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

PLEASE CHECK YOUR ADDRESS LABEL TO SEE WHEN YOUR MEMBERSHIP NEEDS TO BE RENEWED. IF IT READS 9403, THEN THIS IS YOUR LAST SCOPE AND YOU WILL NEED TO RENEW IMMEDIATELY to keep your membership current and to have access to the club's autopatches.

Membership is 760+. There are 8,234 amateurs in SDCo and 9.2% are PARC members.

THANKS TO ALL OF YOU WHO ARE RENEWING OR SIGNING UP FOR MORE

THAN ONE YEAR. WITH OVER 4,000 SLOTS TO FILL AT THE END OF THE CLUB YEAR ON JULY 31ST, IT CAN REDUCE MY WORK LOAD BY HALF (on the average). Some club members are signed up until 2004!

REGISTERED U.S. PATENT ATTORNEY

723-0620

Loyal M. Hanson - W9WV
Fallbrook, California

Jennifer A. Thieme
KM6WG

Bookkeeper
Accountant

(619) 599-1134

770 Sycamore Ave. #J-126
Vista, California 92083

(NEW)/(renewed):

3yrs= w6gic-Sybil

2yrs= KE6FRY-BILL KE6EKY-FRED

WB6AXW-JACK KE6EJF-MIKE K6LCK-RAY
ke6bua-John ng6u-Mitch n6gdt-Nancy
k16rf-Jack

1yr= JS-KD6PBH BILL HAMER TOM-

KC6NXZ WB2A-GENE M5MCJ-GERALD
KE6ARW-BOB KE6FRX-DAVID AB6XK-DAVID
KD6EDC-OSCAR KE6FIJ-ED KD6JPO-JOHN
AH6IR-DICK WB8EJI-STEVEN W6MYV-
FRITTS BOB-WB1DSJ KE6FYE-DAVE
KE6FY0-TOM N6QE0-DENNIS N4RVE-STEVE
KE6EPL-NEALE WA6NPM-MIKE KA6AAG-
CHERYL KE6FGG-ARMAND wb0ycq-Henry
wb6thh-Bill & Nancy Jack Willis Bud
Stanfill wa9lfr-James wa6gah-George
kk6go-Forrest kd6pqa-Susan km6wf-
Gayle kd6zsu-Kim kd6hpo-Hodges
kn6fq-Kevin

Also: N9RKR-DAN who has an
Indiana address and wants a
autopatch code sheet!

CHANGES: Carlos-NP4MV to 9144
Rowlett Ave, SD 92129; Mike-WH6CH
to 1593 Bermuda Dunes Dr, Boulder
City NV 89005; Carl-N6HLY to 9794
Saskatchewan Av, SD 92129; Ed-
KB7VNU to AB7BN (extra); Bryan-
WB6TJN to 32069 Corte Florecita,
Temecula 92592; KE6CJH/KN6Z0 to
KW6Z0; Gerald-KD6PCT to K06AB; Don-
KD6NXA to 12436 Mona Lisa, SD
92130;

73, Ralph 727-7415

Getting Started on ATV

An Amateur Television repeater is the latest addition to Palomar's communications systems. What is it? How can you receive it? How can you use it?

ATV uses a format fully compatible with video equipment designed for the home consumer. a fast scan TV picture displays full motion, has a simultaneous sound channel, has full color and has excellent detail just like commercial TV pictures. The advantage that amateurs have in using ATV is that we can also have two way audio and video communication. Palomar's ATV repeater will have an input on 919.25 MHz (horizontally polarized) and output on 1241.25 MHz (vertically polarized).

To receive the television pictures from the Palomar ATV repeater, all you need is a 23 cm directional antenna with approximately 10 db gain, low loss coax, a down-

converter, and your own TV set. Where can you get these components? See sources at the end of the article.

You also can communicate simultaneously while the repeater is in use on two meters - 146.23, PL 100. This audio channel (intercom) can also be used to turn on the repeater video, to better aim your antenna, and to communicate with the repeater users without having an ATV transmitter.

How has ATV been used by amateurs? Southern California ATVers annually help coordinate and monitor the Tournament of Roses Parade and local marathons. During the Christmas season, amateurs have taken their systems into hospitals to permit children to see and talk with Santa Claus. Another amateur uses his ATV cameras on a tall tower to search Oklahoma skys for tornadoes, simultaneously transmitting the pictures to the Weather Service. The FCC permits ATVers to retransmit the Space Shuttle video

from NASA's public information channel. Club meetings could be televised and schools could transmit to each other on ATV. Air units can use ATV to assess earthquake damage, fires, floods, etc., and retransmit the pictures to the Red Cross and emergency agencies. Finally, when you upgrade to transmitting ATV, you can see the amateur to whom you are talking! Next month's article will be about how you can get started with your own ATV transmitter.

Sources:

1. Ham Radio Outlet, 5375
Kearny Villa Road, San Diego, CA
92123. Phone 619-560-4900.

2. Henry Radio, 2050 S.
Bundy, Los Angeles, CA 90025.
Phone 800-877-7979.

3. PC Electronics, 2522
Paxson Lane, Arcadia, CA 91007.
Phone: 818-447-4565.

4. Swiech Communications
12218 Greentree Rd., Poway, CA
92064. Phone: 619-748-2286.

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fax 619-583-0722

WB6IQS REPEATERS W9FQN

(146.73) As some of you have noticed, we are having problems with the .73 controller. For some reason or another it wants to indicate that it has lost power. Hence the Morse Code "P". In doing some trouble shooting we have accidentally left the repeater several times in the "PL required"

mode. If you don't have a 107.2Hz PL, you wouldn't be able to get into the .73 repeater. We are sorry if this has caused anyone any temporary problems. Why don't you get a PL? It is needed for all autopatches! =SK=

Work parties will be needed for things that need to be done at the repeater site starting in May. Our first project will be to install the new ATV repeater and put the ATV antennas up on the tower. We will be needing work crews to help with the ATV project and to take care of several small projects around the site. This is an excellent opportunity for you to see the repeater site and to help us with its operation. We can use "skilled" and "unskilled" labor ..male and/or female. Contact Stan-W9FQN by phone or see him at the May club meeting to get signed up for 3-4 hours of constructive learning. =SK=

Some of the projects that need to be completed are-
AC WIRING- new box, outside lights.
ATV HELIAX- install up twr to 80'.
??? HELIAX- sort good from the bad.
EMERGENCY antenna crakup finished.
EMERGENCY alarm system update.
FENCE installed around tower/Bldgs.
NEW 220 antenna installed.
GROUND SYSTEM - finish connections.
Other projects have been suggested but have not gotten off the ground.

WB6FMT AUTOPATCHES W9FQN

Jerry-WB6FMT has now finished and tested the 5 (1 spare) new autopatch boards for the autopatch SYSTEM on Palomar Mountain. Jerry has spent over 100 hours working on these boards over the winter months while the rest of the Technical crew has been has not been as active on club projects. =SK=

PARC records all autopatches made on its repeaters with a stereo tape recorder. One channel records the autopatch and the other channel records the time and date from a

modified radio shack Time Cube. This allows a Control OP the opportunity to re-hear a questionable autopatch which can easily be found by the date-time stamp next to the autopatch recording. The audio from the tape is then run through a touch tone decoder and the digits dialed are displayed so that we know what number was called.

STAGE 2 has been started with Ron-KM6MW's donated computer which was modified by John-WB6IQS. It is being used in printing out the phone numbers as they are dialed from another location. Stan-W9FQN has put together a touch tone decoder with an RS232 output box and has started writing the program to do the printing of all numbers dialed in real time on the computer screen and on paper. Since he is not very familiar with IBM computers, he has received excellent help and advice from John-KE6CDH who has a lot of programming experience with IBM's and has helped him with "the finer points" of GW Basic to get at the RS232 com port. It is really neat to see a screen of phone numbers showing the exact number along with the time the call was started and the length of the call in seconds.

Art-KC6UQH has made up the printer cable used with the printer so that we have a "hard" copy of what is on the screen.

Some of the information presently printed is: date, time started (hour, minutes, & seconds) repeater used, section dialed, phone number, and time of ending the call:

| DATE | TIME | RPTR | S | PHONE | SECONDS |
|--------|--------|------|---|----------|---------|
| 041294 | 153214 | 730 | 1 | 749 0276 | 42s |
| 041294 | 154411 | 075 | 3 | 482 1212 | 114s |
| 041394 | 032609 | 425 | 2 | 467 6454 | 92s |

It should be noted that the computer screen and the paper printout also shows the call and name of the person making the call or the name and call of the ham that lives at that phone number.



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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If a Control Operator does not like a call that was made, he only needs to copy down the time and have it checked on the computer print out to have that number added to the drop file so it can NEVER be used again ..provided that the COP's explanation is "bought" by at least two other Control Operators.

We might even add the following: number of times that number has been called and the total length of the calls during

the year to that number. The hardware is functioning properly so all that is left is to modify the program for the types of information which we want.

The program is also set up to read the "tone squelch" calls being made by people not identifying their stations ..and we could then send out their "secret" codes during the middle of the night!

Stan will continue working on the program to add various features needed for STAGE 3 which will check for the phone numbers of "expired" club members, disallowed, or abused numbers. When an unacceptable number is encountered, THE COMPUTER will automatically TERMINATE the autopatch without the Control Op having to do anything except have the number placed in the "TO BE DUMPED" file in the computer. On the computer printout will appear the word DUMPED. This stage should be done around the beginning of the club year (August).

STAGE 4 could possibly take any phone number in SDCo and dial it automatically selecting the proper 3rd of SDCo so that you do not have to know which section the number is in. Stan has already entered 2,100 digits in this part of the program.

Some help is needed soon for a "testing" phase which will let us get some idea as to how the system will function under varying conditions. We would like to have several amateurs who have tried to use their "autodialers" with our patch system and have failed because your dialers are faster than our present system can handle. If you have a fast dialer, please contact W9FQN so that some tests can be run on various solutions to the problem of a fast dialer. =SK=

L E T T E R S to the E D I T O R

The editor & the board reserve the right to publish/edit all letters.

(HENRY-WBOYCQ 147.13) ..will be watching the SCOPE for a real

cheap scanner. I have a guy who wants to start as a no-code-tech. Seems everyone who starts out that I ever knew is poor. Well, I'll try to help him out. Scanner listener #10 (King Henry's Round Table), Mr. Horst, is no longer interested. =SK=

(MIKE-WB6CSH) ..will send youse guys a copy of the local ham clubs newsletter when I have a little more breathing room ..the last ham club that saw a copy of the SCOPE was blown away by the size of the 'letter and the quantity of hams in PARC.

The local weekly newspaper wrote a nice article on the ARES involvement with L.A.'s recent earthquake. That 'quake also woke up a lot of the local people to the fact that Northern California is supposed to be the earthquake capital of the US!! All kidding aside, it did refocus attention on the fact that we need to be prepared, both from a food-water-supplies viewpoint, and in making our homes as safe as possible (i.e., strap that water heater down, practice the family drill, etc.). Fort Bragg, if (oops, I mean WHEN) that big one occurs, will be the last place in No. Calif. to get aid. The San Francisco area and Santa Rosa will get supplies and medical attention long before Fort Bragg!! =SK=

##-SK-#####-SK-##
- W 7 L H C - #
Vincent Riggio #
Vince was a member of #
PARC and also EARS in #
Escondido. Vince will be #
missed by all who knew #
him. #
#SK### - SILENT KEY- ###SK#

Gene Rusnak-N6PQK of the EARS club also recently passed away.

PARC needs a new FD chairman. We need to have someone who can ram-rod the activity. You need not be a contester but should have some organizational skills. Contact Harry-WA6Y00 or a board member.



FORESAIL

In front of Backsales

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=

(PARC) Free TEMPO S-1/S-5 2m HT instruction manual: Stan W9FQN 749 0276 Villy Ctr.

The following Sinclair filters are for sale by the club (TX/RX):

MR 256 SP 155.000 160.000

MR 256 SP 160.000 155.000

MR 256 161.025 157.825 notch

MR 256 SP 167.000 173.000

MR 256 SP 167.000 173.000

(4-21) Lots of ATV 0.5W ATV transmitters on 919.25 MHz. \$50: Bill KC6Y0X 433 4626 Ocsd.

(4-16) 40' twr climable \$100; Heath dual-trace scope 25MHz w/2 10:1 probes used <5hrs \$250: Ted WA6BEJ 944 0639 Leucadia.

(4-7) Cushcraft R7 ant \$275; Diamond X510MA 2m 440 base station \$150; Diamond SG7200NMO 2m-440 mobile ant \$55; Larson NMO-NMR mag mt \$20; Yaesu SP6 speaker \$110; Rubber Duck window mt \$15; Cushcraft LAC4 lightning arrestor \$20: Abe KC6UQA 432 8222 Escondido.

- W A N T E D -

BERG SYSTEMS has an immediate opening for an experienced RF/Analog Engineer to help in an "on hands" design and breadboarding of BIT synchronizers, tunable filters, FM & PM demodulators, IF and S-band/L-Band receivers, knowledge of or familiarity with CAD is a plus. Mail resume to BERG SYSTEMS Int., 2380 "E" Camino Vida Roble, Carlsbad, CA 92009. Fax 438-0056. EOE

KG6JA

(4-7) Kenwood TS930S w/auto tuner mint \$995; Robot Mod 800 RTTY/ASCII terminal \$90; Eico scope \$15; Yaesu YM-24A spkr/mic \$15;

plexiglas Bencher paddle cover \$15: Duane AA6EE 789 3684 Ramona.

(4-6) HyGain Twr HG52SS, HyGain Tri-band TH6, HyGain 40m mono, HyGain Ham IV rotor, Shakspear 10m vert, 3 cable stand-offs, work platform, ant switch 5 position, misc guy cable, hardware, coax and control cables, papers. You take down (I'll help). A real bargain/priced to move! All ex cond: Jack W00DLW 728 0258 Fallbrook.

(4-5) Commodore C-64 printer new in box \$75; Eltro voice mic \$25; new FT-5200 OB0, will take 2m only w/large readout; FT-2100 linear w/spare 573's will demo \$600: Larry W7HKI 439 5855 Ocsd.

(03-07) XT-5.25FD, HD, monochrome monitor, keyboard, misc software \$150/orB0; Software-Design CAD 3-D, Peachtree Complete III, WordPerfect 5.1 w/man & disks: Jennifer KM6MW 599 1134 Vista.

(03-06) Standard Communications SIA15 Speed Impeller, 11,000 pulses per nautical mile. See W9FQN (with the yellow box) at meetings to view the instructions.

(03-05) NetwKSys, 386-25 server wrksta, Mitsubishi VGA Mon, 2-additional wrksta cards, 2HD (40&67MB), math coprocessor, tape backup w/tapes, DOS 3.3, Novell ELS Netware, netwK ver of software, dot matrix color printer, call 4 details, \$1500/B0 4 complete station: Jennifer KM6MW 599 1134 Vista.

(02-07) IC-24 2m/70cm HT w/PL encode/decode module, charger, 1.2Ahr Periphex ragchewers batter, standard .3mah bat, all ex cond \$400/offer or trade HF xcvr HW-101, ant tuner, KW linear etc: Mike Hamann WB6CSH POBox 2831, Fort Bragg, CA 95437.

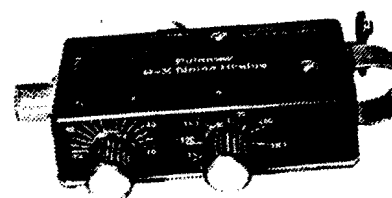
(01-06) ICOM 229H xcvr 50w mobile + ant never used \$330; 7mo old seldom used JVC Karaoke w/disc player and remote control \$499 sell \$350: Tito KD6SYE 575 5342 ImpBeach.

(12-01) Yaesu FR6-7 rcvr gud cond original carton w/YH-55 headphones, bat & dust cover \$125: Dave

WA6HQM 753 2605

(7-8) Commodore C-64 computer complete ex cond monitor 2-drives 2-printers 80col card mem-exp card software RTTY interface + books \$200: Henry N6JWF 945 1247 Ocsd. GUD WAY TO GET ON RTTY AND RUN CODE!

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

***** WANTED *****

"Start houted men)

(04-05) HF xcvr 12v-110ac for IOTA(expo)possible early ATLAS-210-215 for IOTA-(expo) 12v-110v; 930 Kenwood & access CPI-MBATEX for Commodore 64 (RHY); electronic keyer/paddle; Kenwood older mobile 2m 2400 50w? or other: Larry W7HKI 439 5855 Ocsd.

(03-14) Schematic for URN-25F SigGen: Dennis N6KI 271 6079 SD.

A receive 2-meter and/or 70cm converter to 10m: Stan W9FQN 749 0276 VilyCtr.

(01-19) Disk programs for MFJ-1278 multimode to be used in club project: John WB6IQS 724 8380 Vista.

'94CALLBOOKS N.A. & INT \$24.95ea.

ARRL Handbook \$23.95. Repeater

Directory \$5.95+7%Tx. Call Duane

Call Duane AA6EE,789-3674. PdAd

V E T E S T I N G AA6OM

N.Co.FCC LICENSE EXAMS given by the PARC VE Team @ Carlsbad Safety Ctr, Carlsbad (Camino Real to Faraday, 14F6, follow CSC signs East) on 2nd Sat. @ 10am. Reservations less than 2da in advance & walk-ins not normally accepted. VE info: call 465-Exam or Rusty at 747-5872.

610 FORMS AVAILABLE: HRO, 5375 Kearney Villa Rd. or at club meetings from KB6NMK or W9FQN.

MARCH TESTING: 11 candidates for 17 el with 13 passes. Results were:

GEN->ADV: Scottie-KH6TL, Ed-KD6WDE.

NONE->TECH+: Tom Ryan

NONE->TECH: Bob Mariano, David Webb, Nick Ramos

OTHER PASSES: Janice-KD6DLJ-(3B), Lucius-KC4YMN-(3B)

TEST TEAM: KB5MU, AB6QT, KE6VX, WA6HYC, KI6JM, AA6OM.

73, Rusty-AA6OM

W O R K P A R T I E S

If you are on a work party, make sure that it is reported to

the editor.

(2-4) MIKE-AB6QT installed newly programmed chips into the 146.73 and 147.075 repeater controllers because of a bug that under certain conditions caused unexpected results. We hope that the 146.73 repeater will not broadcast a letter "P" for power failure when none has occurred. Mike also picked up some more temperature readings for us to digest from the new building.

(2-6) ART-KC6UQH, MIKE-WA6SVT, BILL-KB6MCU, and GENE-WB9COY visited the repeater site to look at the space available for installing the new ATV repeater equipment. Mike indicated that PARC has the best grounding system of any of the mountain top repeater systems that he has ever seen which makes us all feel good ..at least until we get a DIRECT HIT!

E D I T O R

Stan-W9FQN 30311 Circle R Ln Valley Center, CA 92082-4806 749-0276, 11:30am or 9:45pm

During the last week in May and the first week in April I was in Texas and Oklahoma visiting my brother, a former student ('60), and checking on my property at lake Texoma. The trip has put me behind schedule and some of my "amateur radio" obligations have suffered. I should be back to "normal" by the end of April. =SK=

ENSENADA: My apologies to the 12 members responding to the "April 1st" Ensenada "Free Promotion" trip. It was postponed until next April 31st and your checks will be returned ASAP. =SK=

- A G O G O -

(4-89) Still meeting at Lincoln Middle School in Vista ..Ron-WI6B w/XYL Loreen-N6RAO described how it felt to not fall out of UA Flight 811 at 22K' above the Pacific when the side blew out just behind their seats (Ron is

trustee of W6NWG & the "13" has been taken out of its serial No. - Ed) ..Bud-KG6VX heading up FD ..Joe-N6RVO & Norm-N6QQF working on trailer table/shelves ..Lloyd-W6TFB donated eight folding chairs ..Vista Postmaster Jim-K6\$LA former PARC treasurer had a car crash into his office making a lasting impression. (missed AGOG0 in April -Ed)

(5-89) Tried to move our 147.135 to 147.130 & failed ..Mexican licenses are \$30 (abt \$70 now -Ed) ..95+ at club mtg ..report on Potter Jr.HS ARC in Fallbrook ..LtGen. Butch Griswold-KODWC WW II fighter pilot died ..Jo-KB6NMK took orders on PARC blue shirts with new logo designed by Dan-WL6BLM.

Vote of Confidence

If you need a plumber or an electrician I know one of each that I highly recommend.

Recently my daughter Terri, N6UZH bought a HUD owned condo that was a disaster, boarded up with huge holes in the drywall missing or destroyed plumbing and electrical fixtures, broken windows etc. We knew there would be a lot of plumbing to be done so we called Dave Wine of Sunset Plumbing (619) 630-8700 and asked him for an estimate before she made her offer to HUD. Dave made an estimate plus or minus \$100. He came in with a helper and did the whole job in one day and even with some upgrades on the fixtures he produced a bill just a few dollars more than the lower estimate. Dave is not a ham but he is a nice guy and a great plumber.

We also had problems with the electrical repairs A.J., KB6NML did most of the replacement of outlets, switches and light fixtures but he could not make the kitchen lights work. We called Joe Contogenis of Contes Electric (619) 749-2699 and he tried to help over the phone but A.J. was still unable to make them work. He came all the way from Valley Center to Poway and figured out what was wrong and told A.J. how to fix it. Joe, NU6L is a very knowledgeable and competent electrician as well as a nice guy and he is a ham. I would definitely call either of these again. Jo Ashley, KB6NMK.

P A C K E T

First, I am looking for PHONETIC lists and this is what I have found so far. If anyone can add to these lists (or correct them), please send the information to me or our editor.

| CURRENT | DXING | WWII | ARRL'60s |
|----------|------------|---------|----------|
| ***** | ***** | ***** | ***** |
| ALPHA | AMERICA | ABLE | ADAM |
| BRAVO | BRAZIL | BAKER | BAKER |
| | BOSTON | | |
| CHARLIE | CANADA | CHARLIE | CHARLIE |
| | CALIFORNIA | | |
| DELTA | DENMARK | DOG | DAVID |
| ECHO | ENGLAND | EASY | EDWARD |
| FOXTROT | FRANCE | FOX | FRANK |
| | FLORIDA | | |
| GOLF | GERMANY | GEORGE | GEORGE |
| | GUATEMAULA | | |
| HOTEL | HONOLULU | HOWE | HENRY |
| INDIA | ITALY | ITEM | IDA |
| JULIETTE | JAPAN | JIG | JOHN |
| KILO- | KENTUCKY | KING | KING |
| (WATT) | | | |
| LIMA | LONDON | LOVE | LOUIS |
| MIKE | MEXICO | MIKE | MARY |
| NOVEMBER | NORWAY | NAN | NANCY |
| OSCAR | ONTARIO | OBOE | OTTO |
| PAPA | PORTGUAL | PETER | PETER |
| QUEBEC | QUEBEC | QUEEN | QUEEN |
| ROMEO | RADIO | ROGER | ROBERT |
| SIERRA | SPAIN | SUGAR | SUSAN |
| | SANTIAGO | | |
| TANGO | TEXAS | TARE | THOMAS |
| | TOKYO | | |
| UNIFORM | UNION | UNCLE | UNION |
| | UNITED | | |
| | URAGAUY | | |
| VICTOR | VICTORIA | VICTOR | VICTOR |
| WHISKEY | WASHINGTON | WILLIAM | WILLIAM |
| X-RAY | X-RAY | X-RAY | X-RAY |
| YANKEE | YOKOHAMA | YOKE | YOUNG |
| ZULU | ZANZIBAR | ZEBRA | ZEBRA |

If you have any pet packet sequences that you would like to share with club members, write down the frequency used and send in the sequence using the exact spacing between commands. Your editor uses a 35 space line. Remember, if you have not seen it in this section then there is someone out there who could benefit from ur knowledge. We

still have lots of packet novices out there who could profit from ur knowledge ..even if it is a small item which you use every day.

Please send new material, additions and corrections to ur editor, W9FQN.

de Rod-AC6V this month

One of the most oft asked questions about packet is "Who can I communicate with and what are the features available?"

With a very modest low powered station and an indoor antenna, you can:

1) Make real time direct connections with local stations either by callsign or a CQ.

2) Make real time connections by relay with distant stations either by callsign or a CQ

3) Send and receive mail worldwide through Bulletin Board Services (BBS'S).

4) Send and receive messages thru the National Traffic System NTS.

5) Connect to a DX Packet Cluster to send and receive DX activity (spots). One can also send and receive mail and bulletins on the cluster. Features such as WWV reports, prefix info, beam headings, distance to DX, MUF, QSL routes, and callbook info are also available.

N E W S

Contributions to "NEWS" should be sent to your editor by the 20th of the month. =SK=

Mark Ross, KC6CZ0, is looking for someone who would be interested in heading up the operators for the American Heart Association "Heartride '94" which will take place June 11th at 8am starting at the Cal State Univ. of San Marcos. Rides of 5, 35, and 50 miles will be featured as well as a mountain bike course of 25 miles. There is a \$25 entry fee for each rider and teams of five can register for \$100. There is an early bird special available before 6/1/94. Call

AHA @ 291-7454 for more information and Mark at 739-1533(H) or 480-7161(B) for your amateur radio participation. The PARC 147.130 repeater is being made available for this event.

NOVICE/TECHNICIAN Class to began Monday, April 4th at 7pm at the Carlsbad Safety Center. INSTRUCTOR: Bill, KB6MCU. Cost is \$10 plus \$19 for the book "NOW YOU'RE TALKING". The \$10 is waived for club members. Spread the word among your friends. There is still time to attend this 10wk course if you already have some knowledge of amateur radio and electronics. =SK= Beginning March 1st the FCC will accept only the new version of its Form 610. This applies to everyone. (de ARRL) =SK=

Our membership Chairman, Ralph-KC6WAN, recently attended a medieval jousting tournament, where there were josting champions from various nations. After many bouts, there were just two knights to joust in the final event. One was a Czechoslovakian knight, and the other was a British knight. One was dressed in FULL STEEL ARMOR, and the other was in armor made of LINKS OF CHAIN MAIL. In the interest of pure sportsmanship, there were no national markings on the armor. Our Membership Chairman was puzzled as to how to tell which knight was from which country until a voice, seeming to come to him from on high, said those words he always likes to hear from our members near the end of the club year, "THE CZECH IS IN THE MAIL." (Ralph has a lot of work to do during the end of the year -JUNE & JULY- and appreciates you sending in your \$12 club dues (\$21 family) starting in May so that he is not overwhelmed July 31st, the end of our club year. -Ed)

The American Digital Radio Society has acquire the RTTY Digital Journal, and will retain Dale Sinner, W6IW0, (Fallbrook) as the editor. You can get a free copy of the newsletter at ADRS, Box

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 |

2465, New York NY 10185 or BBS 212-698-2102. (de ARRL) =SK=

PAUL-KD6JXY has noted that while transmitting in Carl's Junior on his 70cm HT that he locks up all the cooking equipment plus locking up their cash registers. =SK=

Thanks to:

Mark-N6NNI for getting Steve-N4RVE to sign on with PARC.

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.

Bill-N6Y0X for reminding a patch user to give his call before shutting down the patch. Your help is appreciated. Control operators are not always sitting near their rigs and cannot react as quickly as someone who is mobile or sitting next to their rigs. =SK=

Frank Craig-WJ6U for the \$10 donation towards the selling of Jack White-W6SMP's SK estate. =SK=

ROD-AC6V for helping Ivan-N60LE locate several of his military buddies from over fifty years ago. All Ivan had was a name of an amateur which Rod was able to turn into an address. Ivan talked to his old friend for 1.5hrs on the phone and then learned that a mutual buddy of theirs just lived down the street from Ivan ..which resulted in another 1.5hr phone call. (Amateurs can be located in various ways. With a name you can go into a DX cluster and request a call sign which will then led to an address.

SCOPE

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| | | | | | |
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W6NWX W6NWX W6NWX

Scope

W6NWX

Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073



JUNE ***** 1994 ** 58 YEARS OLD

Volume XX, Number 06

Published monthly by PARC

an ARRL Special Service Club

Membership \$12 including \$3 for SCOPE outside SDC. \$4, Coffee 7pm, Mtg. 7:30pm Carlsbad Safety Center (CSC), Palomar Airport Rd. to N. on Camino Real (S11) east on Faraday .25 mi, left to CSC, Thomas Bro. Pg. 14F6. Talk-in 146.730.

***** E L M E R S ***** (call for info)

CARDIFF, . Duane-WB6R, 753-4821

CHULA VISTA, Steve-N6RUV, 422-4415

ESCONDIDO *** Harry-WA6Y00, 743-4212

*** PALOMAR AMATEUR RC PRESIDENT

La MESA, . Roger-N6UW, 697-6025

LAKE SIDE, . Mac-WB6GXR, 561-2211

RAMONA, . Vern-AA6JU, 789-3070

SAN DIEGO, . Dennis-N6KI, 271-6079

SAN MARCOS ** Ralph-KC6WAN, 727-7415

*** PARC MEMBERSHIP CHAIRMAN

VISTA, . . . Jack-KI6JM, 598-0420

SAN MARCOS, Rusty-AA6QM, 747-5872

(Head PARC VE testing program)

Prospective amateurs ONLY can call

1-800-32-NEW-HAM @ the ARRL Hdq

8am-5pm ET M-F for Ham Info.

Ham Radio info: call ARRL Hdq. 8am-

5pm ET M-F, 1-800-32-NEW-HAM

OPEN REPEATERS / CLOSED AUTOPATCHES

PALOMAR MOUNTAIN REPEATERS (W6NWX):

Patches: 146.73; 147.075; 147.13; 449.425; and 146.7 RTTY

PACKET: 145.05s & 70 cm METROLINK

SIMPLEX: 145.350; 145.520; 446.000

ATV: 1241.25(out)/919.25(in); 146.43s

OTHER: 224.38(KK6KD); 224.9(WD6HFR)

146.175*(WA6IPD); *107.2Hz

COVERING 2000 SQ-MI OF SAN DIEGO CO

A T V W6GIC/KB6MCU

Now, What Do I Need to Transmit on the New ATV Repeater?

The new ATV repeater went up on Palomar Mountain on May 14!

Last month's article was on how to receive an ATV signal. If you have already obtained your down-converter and antenna, you are ready to transmit. What do you need?

First, let me apologize for a typo in last month's article. The intercom frequency was listed incorrectly. It is 146.43 MHz, PL 100.97.4 Hz.

To transmit, you will need a 919.25 exciter, such as a P.C. Electronics TX-33 or for better color, the model RTX-33. You will need a 20 watt amplifier such as a Down East Microwave model 3318 PA, and a 10 db or more gain antenna, available from Swiech Communications in Poway. Be sure to use LOW LOSS cable.

TIP: For improved reception, mast mounted preamps are available from ICOM, model AG-1200, or Down East Microwave, "1.2 GHz preamp".

CALENDAR

Jun 1 Wed. Palomar ARC Club Meeting

Jun 9 Thur. PARC 7pm Board Meeting

Jun 11 Saturday PARC VE Carlsbad SC

Jun 11 Heartride (146.13), 5, 35, & 50mi

contact Mark-KC6CZO 739-1533

Jun 24 DEADLINE FOR SCOPE ARTICLES

Jun 25-26 PARC FIELD DAY Del Mar Fair

Jun 28 SCOPE placed in mail at Vista

Aug 26-28 SW DIV CONVENTION San Diego

NEXT MEETING KC6UQH

Art McBride-KC6UQH, VP and

program chairman, has announced

that the June club meeting will be

a program by our club president,

Harry-WA6Y00 on Field Day, and our

SDCo. EC, Pat-WA6MHZ, who will show

us a video on his trip to South

American looking for Inca Gold.

SHOW & TELL: Talk to Art-

KC6UQH B4 the meeting to reserve

time for UR S&T item(s). There will

probably be more \$18 packet and \$12

RTTY demos plus the latest in

receiving PARC's new ATV repeater

on Palomar Mountain.

Now, if you are wondering whether

you are in a favorable location to

receive the signal from Palomar,

there is a rule of thumb: if you can

receive the Palomar 450 repeaters,

you should be able to work the

repeater on ATV. So, try it.

If you are planning to purchase a

camera, get one with at least a

sensitivity of 2 LUX.

With this equipment, you are now an

ATVer!

BOARD MEMBERS present:

President: Harry Hodges, WA6YOO
 VP-president: Art Mc Bride, KC6UQH
 Secretary: Nash Williams, W6HCD
 Treasurer: Jennifer Thieme, KM6WG
 RTechnical: John Kuivinen, WB6IQS
 SCOPE/etc: Stan Rohrer, W9FQN
 Membership: Ralph Powell, KC6WAN
 Board Member: Mike Doyle, AB6QT
 absent KC6LV

- also present -

Constitution: Jack Hanthorn-KI6JM
 OTHERS: Bill-KB6MCU/Sybil-W6GIC(ATV)
 John-KE6CDH, Mark-NGNLI, Jo-KB6NMK

Club members are invited to attend Board meetings to observe the Board of Directors in action ..or non-action ..and receive one activity pt. for attending. GREAT BROWNIES, HARRY! (Time 7pm-10pm)

- SECONDS -

DISCUSSED: EquipBal \$1777, General \$1875, PrePd \$4449, Total \$8101 plus change; PARC mugs; packet + RTTY boards; programs; training classes and dates; work parties; membership 783; 2nd phase autopatch finished and computer control; camper donaton; .73 controller swap by AB6QT; use of members dues and use of money for hard (capital) items at repeater site, Field Day, etc.

APPROVED: Field Day at Del Mar Fair; \$230 to W6GIC's ATV fund; tower climbing policy dated 2-24-94; membership cards and business cards for August 1st '94; W9FQN to write letter on insurance update;

The board met early (6pm) and folded 3,000 new updated PARC brochures.

Please contact one of the board members for more info or see the secretary for written minutes.

NEWSLETTER HELPERS MAR. SCOPE
 KI6JM, Jack Hanthorn, folding, Refresh
 KC6WAN, Ralph Powell, printing labels
 W6IFB, . Lloyd Hunt, . folding
 KD6RFM, Emilio Spelgatti, folding
 WA6YOO, . Harry Hodges, . Staples
 N6TCB, . Jerry Carter, . labels
 W9FQN, Stan Rohrer, Editor, PO Forms

The Fold-Staple-Multilate-The-

SCOPE-group meets at Jack-KI6JM's QTH in Vista at 12:30pm & finishes abt 2pm. WE CAN ALWAYS USE MORE HELP. FSMTS is Tues of the week B4 club's 1st Wed club meeting. Receive 1 activity pt 4 participating in fun & games. Jokes told R "out of this world!"

LAST MEETING

In attendance were ??? members, ?? guests, for a total attendance of 125. PLEASE COME EARLY and help set up chairs.

As usual, the meeting was facinating with Terry Dupson, W6MKD, for the 4th time showing one of his DXpeditions. This time it was to Peter the 1st Island down near the South Pole (beautiful slides and video which would be fun to show on our new ATV repeater!). It was summer and they pitched their tents on 300' of snow! It is really hard to believe that you can "get there" from here. Your editor is still waiting to see the Galapagos Island DXpedition but Terry has been doing these so rapidly that we all "missed" that adventure.

SHOW & TELL featured John-KD6CDH with a poor man's packet (\$20), Bill-KB6MCU with ATV items that can be used with PARC's new ATV repeater, Marvin-KA6PKK on 9913 coax cable vs the new flex Paloma 400 cable that will bend to 1" radius, and Ellen with \$16 ?? (she didn't use the mike so ur Ed did not hear that one).

ART-KB6YHZ supervised the coffee and BECKY-KE6BUE supervised the drink and goodie table with members bringing goodies: KE6CDH, KM6PY, KE6BUE, N6TCB, KD6AKT, K6YKG, N6ISC, WA9LFR, KD6YKX, KM6MW, & WB6GXR.

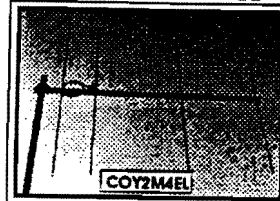
A SPECIAL THANKS TO MEMBERS WHO BRING IN GOODIES.

The goodies were great & U were rewarded with "1" participation ticket.

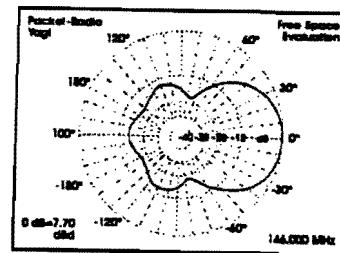
Swiech
 SCS
 communication
 systems

Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd



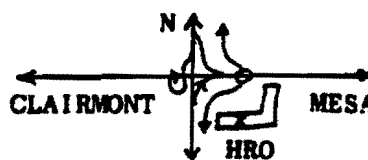
H-Plane beamwidth 60 deg
 Bandwidth 144.5-147.5 MHz
 SWR < 1.7 at Band Edge
 Impedance 50 ohm
 Silver Plated Teflon SO-239
 Maximum Power 500 Watts
 Chemfilm Treatment On Brackets
 Balanced Matching System
 Two Part RTV Potting
 Black Delrin Insulators



(619) 748-2286
 Gene Swiech, WB9COY

- A G O G O -

(5-89) Tried to move our 147.135 to 147.130 & failed ..Mexican licenses are \$30 (abt \$70 now -Ed) ..95+ at club mtg ..report on Potter Jr.HS ARC in Fallbrook ..Lt.Gen. Butch Griswold-KODWC WW II fighter pilot died ..Jo-KB6NMK took orders on PARC blue shirts with new logo designed by Dan-WL6BLM.



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PRESIDENTIAL QRM WA6YOO

Well the long awaited ATV repeater is up and operational from the club site on Palomar Mountain. Reports of good reception from several points within the county indicate that it's doing what it was designed to do. Our thanks to Bill, KB6MCU, who built it, to Mike Collis, WA6SVT, of the Amateur Television Network, who provided guidance and inspiration, to Gene, WB9COY, who provided demonstrations at club meetings which let us all see the potential, to Sybil, W6GIC, who provided financial management and kept excellent records, to the many contributors of time and money and to our technical committee who made the trips up the mountain. The club can be justly proud of this latest accomplishment.

On Friday, May 13, our Partner in Education, Challenger Junior High School held an open house. Frank, KI6YG, and his young charges

put on quite a display of enthusiasm for things technical. Fried and Sandy Heyn, our ARRL Division Director and his wife were in attendance, as well as Section Manager, Pat Bunsold, WA6MHZ, Jo, KB6NMK, who busied herself filling out certificates for the kids who made QSOs, Ellen, N6UWW, who was on the other end of the contact along with Kevin, N4UWX (who is also USN on a nuclear sub). In addition to working with the radios, the kids gave us a demonstration of rocketry, having built water/compressed air powered rockets from plastic soft drink bottles. Very impressive. Frank, KI6YG, the Science and Technology teacher has only two speeds: running and light. He really gets the kids fired up. A fun day topped off with BBQ burgers, hot dogs and baked beans.

As you know, the Club hosts a number of nets on two meters. We handle traffic every evening at 8pm on the San Diego County Traffic Net (SDCTN), do code practice Monday

through Friday at 7pm, provide ARES information on Sunday morning at 8:30am, and on Sunday evening at 9pm we let everyone know what's going on ham-wise for the coming week. Additionally, we sponsor nets for sailors, microwave and computer buffs, license theory, ham help, and more! All of this takes time and effort by net controls, traffic handlers, code teachers, etc. What is needed is more folks to devote a little time in this effort. Look at the list of nets in the Scope, decide what you would be comfortable doing, and set aside only an hour per week. With almost 800 members in the club, that's 20 man-weeks of effort! Just think of what can be accomplished. Won't you help?

It appears that Field Day will be a rather subdued affair this year. The massive effort put forth for a winning score three consecutive years has worn a lot of folks out. Additionally, we were unsuccessful in recruiting someone to

manage such an undertaking. Therefore, we will participate in Field Day as part of the Del Mar Fair. On FD weekend, members of our Club will operate from the SANDARC booth and provide the public an example of Amateur Radio in action. We will need at least 4 operators, loggers, public relations persons per 3 hour shift on Saturday and Sunday for a total of 32 people. Of course more would be appreciated. When you're not actively engaged you can see the rest of the fair. If you would like to participate, give me a call at 743-4212. The shifts are 3 hour blocks from 10am to 10pm when the fair closes for the evening. Just think of all that wonderful fair food that's available.

73, Harry WA6YOO.

MEMBERSHIP KC6WAN

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

PLEASE CHECK YOUR ADDRESS LABEL TO SEE WHEN YOUR MEMBERSHIP NEEDS TO BE RENEWED. IF IT READS 9403, THEN THIS IS YOUR LAST SCOPE AND YOU WILL NEED TO RENEW IMMEDIATELY to keep your membership current and to have access to the club's autopatches.

Membership is 785+. There are 8,234 amateurs in SDCo and 9.2% are PARC members.

THANKS TO ALL OF YOU WHO ARE RENEWING OR SIGNING UP FOR MORE THAN ONE YEAR. WITH OVER 4,000 SLOTS TO FILL AT THE END OF THE CLUB YEAR ON JULY 31ST, IT CAN REDUCE MY WORK LOAD BY HALF (on the average). Some club members are signed up until 2004!

(NEW)/(renewed):

3yrs= none

2yrs= w6yyv-Sam kd6ash-Ernest N6LKG-GARY

lyr= kk6rx-Depaola ke6gs-j-Saul

kc6ast-Lane kd6jxo-Frank kd6szo-Bud n6wsu-Stewart K6TQ-BILL KE6GGP-ERNIE BILL-HODGE N6KBL-HARLAN KD6ENB-DANIAL N6XXU-CURTIS NA6Y-JOHN N6FDT-GAY KB6PNE-DAVE KE6BXH-RAMON SYDNEY CHAVASSE AMY RUNYON JUSTIN LINK PAUL ZEIGLER DONALD CHILEN JUDY LOMBARDO DONNELLY WARREN DIRK FLINT VICTOR ZECH GERALD CLEMENTS JOHN ALEXANDER KARLA MULRY TOM MCCARTHY

CHANGES: none

73, Ralph 727-7415

END OF YEAR

Most club members have their dues expiring on July 31st (9407 on your label) which is the end of PARC's club year. With a club of almost 785 members Ralph-KC6WAN would have a large number of renewals to post into the giant computer in July and the 1st 15 days of August.

PLEASE RENEW EARLY AND FOR SEVERAL YEARS IF AT ALL POSSIBLE so that Ralph does not have so much work at one time getting the records in order for the new year starting on August 1st. We need to have the newsletter sent out sometime around the 24th of August so we only have a few weeks to process your renewals. The club was founded in 1936 so we plan on being around for quite a while and your money is safe with us.

EVEN IF YOUR DUES COME DUE AT SOME OTHER TIME, WHY NOT SEND IN YOUR \$12 (\$21 family) DUES IMMEDIATELY WHILE YOU ARE THINKING ABOUT IT.

Several club members have so much confidence in the club that they have renewed until the year 2004 ..the record is held by Felix-N6IE who is one of the Old Time club members, a prisoner of the Chinese and North Koreans, and a CW operator who operated CW from his car on long trips.

PLEASE SEND IN YOUR DUES (\$12 single, \$21 family) NOW OR BRING THEM TO THE JUNE CLUB MEETING and watch Ralph JUMP FOR JOY. If you

would like to have your dues to come due at the end of the club year (July 31st), count the number of months from your expiration date to July and send us \$12 (\$21 family) plus \$1 (\$1.75 family) for each month until the end of the next club year.

The autopatch and the ATV projects are phases of amateur radio that many club members do not participate in so we would like to suggest that when you send in your dues that you might want to make an additional contribution to the AUTOPATCH fund if you use the autopatches quite a bit and also to the AMATEUR TELEVISION fund if you think that you will be using an ATV converter or a ATV transceiver sometime soon. For example, mark on your check ATV \$5-20 and/or PATCH \$5-10.

PARC has held the line on dues for over 10 years and we are getting close to the point where normal dues just do not contribute as much to the normal operation of the club as we would like. Our growth and economies of size have allowed us to keep the dues about the lowest in the county while providing for many club activities and interests.

INVITE A FRIEND TO JOIN THE PALOMAR AMATEUR RADIO CLUB!

- A G O G O -

(6-89) Terry Dubson-W6MKD gave a slide show in his recent radio trip to Siberia ..Rusty Massie-KJ6SZ (now AA6QM) passed his Extra Class ..WB6IOV & N6NZX to Extra ..John-WB6IQS bought a MFJ-1270 TNC for new packet repeater he is constructing ..380 club members ..147.135 now on 147.735 (our 147.130 rpt) ..65 at club meeting ..Dick-W6QML recovering from a quadruple bypass.

WB6IQS REPEATERS W9FQN

The new ATV repeater is operational and there are several stages of operation for club members:

1) The simplest stage is to buy (\$109) or build a 1.2GHz converter to channel 8/10 of your TV set. Then with a two meter radio you can talk to the ATV station on Palomar Mountain on 146.43MHz, PL 100Hz, and your two meter signal will be broadcast over the 1.2GHz ATV station on FM. The converter will allow you to see the picture and to talk the person sending up his ATV signal. For example, you can tell him to move the camera and to show you the pretty calendar picture hanging on the wall behind him (her?). You might need a good 1.2GHz beam depending upon your location in SDCo. Your editor might get away with a dipole for receiving.

At present the ATV repeater is transmitting 3-slides: frame of PARC logo, color bars with W6NWC, and a frame about our club meetings. When appropriate, NASA Select is also being broadcasted.

2) The next stage is to add a 900MHz transmitter, amplifier (depending upon your location), and beam. More on this phase later. Of course, your video signal can be from a home video camera or you could borrow someone's camera, make a tape or groups of tapes, and show it from your shack QTH with your VCR in the play mode. =SK=

The FCC has issued a letter of interpretation that validates the authority of repeater system licensees to ban duly licensed radio amateurs from operating over their open repeaters. This ruling came about as a result of the CLARA problems to the north of us (145.22).

Chief John Johnston W3BE clarified Section 97.205(e), which states "... Limiting the use of a repeater to only certain user sta-

tions is permissible." "The rule section applies whether a repeater is coordinated

PARC BOARD DECIDES WHO CAN USE THE REPEATER AND WHO CANNOT USE IT AND INDIVIDUAL CLUB MEMBERS CANNOT "TELL SOMEONE" TO GET OFF OF THE REPEATER AND NOT TO USE IT! THE PARC BOARD IS ELECTED BY ITS MEMBERS AND MEMBERS CAN HAVE THEIR INPUT AT ELECTION TIME and at Board Meetings on the Thursday of the week following the club meeting. WE DO NOT HAVE A PROBLEM AT THIS TIME and it is only being mentioned because of the recent FCC ruling.

It has been club policy to operate OPEN repeaters to all amateurs although "more than casual" users should feel an obligation to support the repeaters that they use. The Board hopes that individual members will invite habitual users of our repeaters to join the club and support it. =SK=

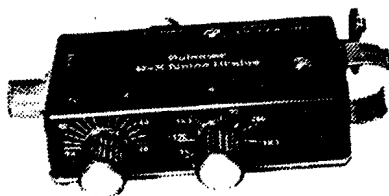
Users of 449.425 and the autopatch system should remember that when the Navy and/or Marines are playing games that we are likely to have RADAR on our 70cm frequencies. The loudness of the BUZZING RADAR is dependent upon the strength of your signal to Palomar Mountain: strong signals will have little BUZZING and weak signals will be almost obliterated with the buzzing.

If anyone has 70cm and one of these brand new DSP filters, it certainly would be interesting for you to see if these new audio filters can take out the RADAR BUZZING. Just run the audio from a 70cm repeater into the unit to see if it removes the radar buzz. If it can, we will install some of the units on the repeaters at our site to clean up the signals before they are repeated. Contact Stan-W9FQN if you can run a test for us. =SK=

WB6FMT AUTOPATCHES W9FQN

PARC's three basic access points into the San Diego County phone system (VSTA, MMSA, & LMSA) were originally programed to accept all prefixes in SDCo that could be accessed without charge from their

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.



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Palomar Engineers

Box 455, Escondido, CA 92033
Phone: (619) 747-3343

as an 'open' or 'closed' repeater. Further, the rule applies without regard as to whether a repeater is coordinated at all. Rule 97.205(e), without qualification, permits the individual responsible for proper operation of a repeater to limit the use of a repeater to certain user stations."

IT SHOULD BE NOTED THAT THE

respective locations.

The programming of the IBM computer to work with the autopatch system has been a real learning experience for your editor since most of his programming has been with the old Radio Shack Mod III's and IV's.

Since we are now printing out all telephone numbers dialed with an IBM computer, we have noted prefixes being dialed that don't exist in our phone books and the phone calls are not completed (they are rejected) since they are not in PARC's computer ALLOW TABLE. We suspect that these prefixes could be from a block being assigned to cellular telephones. If so, we would like to know more about these prefixes since we don't know where to assign prefixes such as 855 & 895 in PARC's autopatch system. We also suspect that the phone company has added some new prefixes lately and we would like to know what they are.

If you suspect that your prefix or one that you are using has not been activated, please contact WB6FMT or W9FQN immediately so that the problem can be corrected ASAP. We think that 625 is one that needs to be activated. =SK=

Users of the autopatch system need to remember that while the FCC permits you to make a call to a place of business to order "PIZZA", PARC does not condone it at this time. PARC does not even like to have you make a call to a place of business where they mention their company name even if it is only a call to your spouse unless you "BLOCK" out the company name by "KEYING" your mike which assumes control of the SYSTEM and all that is heard over the repeater is a "DEAD CARRIER" ..and the company name is not heard. Making calls to the local theater for movies and times is probably permitted by the new FCC rules BUT NOT by PARC at present: SORRY!

Calls made to businesses or home phones where there is music or

where there are objectional answering machines which are not BLOCKED OUT by you will have those numbers added to our computer DROP list so that they WILL NEVER BE COMPLETED IN THE FUTURE. We do not really have a problem at present since less than 1% of the calls being made are questionable in one form or another.

REPEATER OWNERS (PARC) HAVE THE RIGHT TO DECIDE WHO USES THEIR REPEATERS AND WHAT IS THE CONTENT OF THEIR AUTOPATCHES. THIS IS AN FCC RULING. PARC'S RULES OF OPERATION AT PRESENT ARE MORE CONSERVATIVE THAN THE FCC'S! If you have objections, please contact a board member so that it can be discussed at the next board meeting. =SK=

Our new computer is showing that most of the autopatch calls are being made Friday evening thru Sunday evening with 147.13 the favorite repeater. Probably because this was the first of our repeaters to have an autopatch. W9FQN has started monitoring the 147.13 repeater because of its heavier autopatch use (that should spread some of the calls out! -Ed) =SK=

PARC Control Operators (COPs) are instructed to DUMP problem calls on the frequency you are using only if they give THEIR call signs. And they are also instructed not to come back and discuss the DUMP of the call with you. If you have a problem, call W9FQN and give him the call of the COP that DUMPED the call you made. COPs can kill the autopatch by other means but by the time that is done (at present), your call probably would have been completed. Usually they will kill the autopatch for 10-30 minutes if they suspect that other calls of the type that you just completed might be made again.

The new computer CONTROL SYSTEM which will go into effect sometime before August 1st will be able to DUMP PROBLEM CALLS automatically and you will receive an AUTOMATIC DISCONNECT when you make

a call to an PARC unacceptable phone number. At present, the CONTROL SYSTEM only prints out on the IBM screen and on paper the fact that it is an UNACCEPTABLE number that was called. The computer control project is ahead of the new hardware system control on Palomar and ahead of the hardware to be connected to the control computer. There are five numbers in the DUMP file awaiting complete activation of the new control system.

The new COMPUTER CONTROL system could do the following listed in order of their possible implementation:

- 1.DUMP specific phone numbers.
- 2.AUTOMATIC redial.
- 3.AUTOMATICALLY select the proper police and fire phone numbers and dial the 800 AAA number or local.
- 4.AUTOMATICALLY select Sec 1,2,or3. for all patches so you don't have to THINK what section UR calling.

The program already is written to do #1 thru #4 except for the "dialing" routine which should not take long after the hardware is finished.

The PARC autopatch system was built for EMERGENCIES, but we do ENCOURAGE you to use the patches for other purposes so that when an emergency comes you are completely prepared to use the autopatch with ease. We also feel that you should use it from different locations in the county so that you know where in the county it can be accessed. =SK=

The following calls (or numbers) have been reported as PROBLEM CALLS:

MUSIC:(N)one (L)isted(NL)
 IMPROPER LANGUAGE:.. (NL)
 IMPROPER SEQUENCE:.. . .4397399(1)
 QUESTIONABLE CALL:.. (NL)
 UNCLEAR CALL SIGN:.. (NL)

Please contact W9FQN ASAP for more information on the above problem and to have your call or number removed from the list. =SK=



FORE SAIL

A reef is DX or a Sail?

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=

(5-19) TrueBlue XT mono monitor, 2-floppies, 640k mem \$100; 2-260k floppies IRM \$10ea; 2-20Meg MFM hard drives \$25ea; 40Meg MFM HD \$40; 3-4 MFM controller cards (2 floppy, 2 hard drive) \$15; JUKI wide carriage non-working printer (pwr?) \$5; serial printer \$5; 1200 baud internal modum \$5; 300 baud external modum \$3; Tim N6ZUC 735 9125 Esc (THIS IS RACES ESCONDIDO EQUIPMENT). Also packet 145.07 ESN N6ZUC.

(5-4) Sony CCD-V110/PRO Camcorder, fade, color wipes, character gen, titeler, single frame etc, shoulder model \$395: Bill N600U 758 7163 Vista.

(5-12) PK-232MBX packet data controller (#49679) ex con swbox man 1991 not used 4 1.5yrs \$200: Joe N6RVO 433 6885 Ocsd.

(5-11) Azden 6m mobile PCS-7500H 10-50w (purchased 2-94); Astron RS12A pwr sup; Cushcraft AR6-Ringo (4-94) & CS-50M (4-94); Larsen NMD50TLM (4-94); RG58u coax 50'; total price for all \$400: C.L.Ball N6HLY 484 5409 leave call and Ph & will call back.

The following Sinclair filters are for sale by the club (TX/RX):

| | | |
|-----------|---------|---------------|
| MR 256 SP | 155.000 | 160.000 |
| MR 256 SP | 160.000 | 155.000 |
| MR 256 | 161.025 | 157.825 notch |
| MR 256 SP | 167.000 | 173.000 |
| MR 256 SP | 167.000 | 173.000 |

(4-21) Lots of ATV 0.5W ATV transmitters on 919.25 MHz. \$50: Bill KC6YOK 433 4626 Ocsd.

(4-16) 40' twr climable \$100; Heath dual-trace scope 25Mhz w/2 10:1 probes used <5hrs \$250: Ted WA6BEJ 944 0639 Leucadia.

(4-7) Diamond SG7200NMD 2m-440 mobile ant \$55; Larson NMD-NMR mag

mt \$20; Rubber Duck window mt \$15; Cushcraft IAC4 lightning arrestor \$20: Abe KC6UQA 432 8222 Escondido.

(4-7) Kenwood TS930S w/auto tuner mint \$995; Cushcraft ATB-34 3-bander \$150; Alliance HD-73 rotator \$80: Duane AA6EE 789 3684 Ramona.

poition, misc guy cable, hardware, coax and control cables, papers. You take down (I'll help). A real bargain/priced to move! All ex cond: Jack WOODLW 728 0258 Fallbrook.

(4-5) Commodore C-64 printer new in box \$75; Eltro voice mic \$25; new FT-5200 OBO, will take 2m only w/large readout; Yaesu FL-2100B 10-80m linear w/spare 572's will demo \$600: Larry W7HKI 439 5855 Ocsd.

(03-07) XT-5.25FD, HD, monochrome monitor, keyboard, misc software \$150/orBO; Software-Design CAD 3-D, Peachtree Complete III, WordPerfect 5.1 w/man & disks: Jennifer KM6WG 599 1134 Vista.

(03-06) Standard Communications SIA15 Speed Impeller, 11,000 pulses per nautical mile. See W9FQN (with the yellow box) at meetings to view the instructions.

(03-05) NetwkrSys, 386-25 server wrksta, Mitsubishi VGA Mon, 2-additional wrksta cards, 2HD (40&67MB), math coprocessor, tape backup w/tapes, DOS 3.3, Novell ELS Netware, network ver of software, dot matrix color printer, call 4 details, \$1500/BO 4 complete station: Jennifer KM6MW 599 1134 Vista.

(02-07) IC-24 2m/70cm HT w/PL encode/decode module, charger, 1.2Ahr Periphex ragchewers batter, standard .3mah bat, all ex cond \$400/offer or trade HF xcvr HW-101, ant tuner, KW linear etc: Mike Hamann WB6CSH POBox 2831, Fort Bragg, CA 95437.

(01-06) ICOM 229H xcvr 50w mobile + ant never used \$330; 7mo old seldom used JVC Karaoke w/disc player and remote control \$499 sell \$350: Tito KD6SYE 575 5342 ImpBeach.

(12-01) Yaesu FRG-7 rcvr gud cond original carton w/YH-55 headphones, bat & dust cover \$125: Dave WA6HQM 753 2605

(7-8) Commodore C-64 computer complete ex cond monitor 2-drives 2-printers 80col card mem-exp card software RTTY interface + books \$200: Henry N6JWF 945 1247 Ocsd.

REGISTERED U.S. PATENT ATTORNEY

723-0620

Loyal M. Hanson - W9WV
Fallbrook, California

Jennifer A. Thieme
KM6WG

Bookkeeper
Accountant

(619) 599-1134

770 Sycamore Ave. #J-126
Vista, California 92083

(4-6) HyGain Twr HG52SS, HyGain Tri-band TH6, HyGain 40m mono, HyGain Ham IV rotor, Shakspear 10m vert, 3 cable stand-offs, work platform, ant switch 5

GUD WAY TO GET ON KITTY AND RUN CODE!

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

WANTED "Start houted men)

(5-19) looking for dontation or sell cheaply a PK-88 TNC to RACES ESC: Tim N6ZUC 735 9125 Esc (THIS IS RACES ESCONDIDO)

(04-05) HF xcvr 12v-110ac for IOTA(expo)possible early ATLAS-210-215 for IOTA-(expo) 12v-110v; 930 Kenwood & access CPI-MBATEXT for Commodore 64 (RHY); electronic keyer/paddle; Kenwood older mobile 2m 2400 50w? or other: Larry W7HKI 439 5855 Ocsd.

(03-14) Schematic for URN-25F SigGen: Dennis N6KI 271 6079 SD.

A receive 2-meter and/or 70cm converter to 10m: Stan W9FQN 749 0276 VlllyCtr.

(01-19) Disk programs for MFJ-1278 multimode to be used in club project: John WB6IQS 724 8380 Vista.

'94CALLBOOKS \$22.95.ARRL Handbook \$23.95. ARRL Repeater Directory \$5.50. Low-Band DXing \$18.95 +tax Call Duane AA6EE,789-3674. PdAd

VE TESTING AA6CM

N.Co.FOC LICENSE EXAMS given by the PARC VE Team @ Carlsbad Safety Ctr, Carlsbad (Camino Real to Faraday, 14F6, follow CSC signs East) on 2nd Sat. @ 10am. Reservations less than 2da in advance & walk-ins not normally accepted. VE info: call 465-Exam or Rusty at 747-5872.

610 FORMS AVAILABLE: HRO, 5375 Kearney Villa Rd. or at club meetings from KB6NMK or W9FQN.

MAY TESTING: 11 candidates for 19 el with 15 passes. Results were:

TECH->GEN: KE6EJG

TECH->ADV: KE6ARW

NONE->TECH: Max Berry, John McKenzie, Dale McBride, David Gerry, & Mario Massens.

OTHER PASSES: Ross Rehart Jr(el 2).

TEST TEAM: KB5MU, WA6HYC, KE6VX, AA6CM, W6YYV, N6ZUC, & KI6JM.

73, Rusty-AA6CM

PACKET Rod-AC6V

- de Rod-AC6V -

In making a SELF TEST thru a node such as W6NWG-1 on 145.050 (simplex), type "C AC6V V PALMAR." (or the longer way, C PALMAR, wait for a connection, then C AC6V-1 to connect to your mailbox -Ed) This will connect you to urself to do a self test. When connected, you will receive a prompt "CONNECTED TO AC6V VIA PALMAR (remember to substitute your call for "AC6V" -Ed). Type in a message such as "HELLO SELF" and a few seconds later the message will be sent back to you. This could get boring! The "C" stands for connect and of course, substitute ur call for AC6V. "V" stands for VIA or "by way of" and PALMAR is the name of W6NWG-1. (Only six letters were allowed in the W6NWG-1 packet node chip causing us to drop the "O" from PALOMAR. -Ed)

To make a direct connection, three methods can be used-

A)Arrange with a fellow ham to meet at a packet frequency, these are listed in the ARRL Repeater Directory (page 474) and in general, range from 144.910 to 145.090 in 20kHz steps and 145.610 to 145.690 also in 20 kHz steps. These are simplex frequencies and no off-set is required.

From ur keyboard, type "C AC6V <RETURN>". Be sure to include the space between the "C" and ur callsign. <RETURN> is the RETURN key on ur computer.

Packet can be slow, wait for several seconds and if a connect is successful, ur monitor will prompt you with "CONNECTED WITH AC6V," if not a "RETRY COUNT EXCEEDED" will be received. You may not have sufficient signal strengths and will have to use a node which will be

covered later.

If a connect is made, you can now type ur messages and when <RETURN> is pressed they will be sent. Be sure to hit return around the 80 column mark otherwise ur message may be truncated.

To terminate the QSO, type "BYE" or "DISCONNECT".

B)Tune to the packet frequencies and place ur TNC in the monitor mode. TNC's vary so see ur instruction manual.

Activity is indicated when you see a typical interchange such as: AC6V>W9FQN YO STAN, WHEN IS THE DEADLINE FOR THE SCOPE??

Using the same discretion as in any QSO in progress, you can contact a station AC6V by typing in "C AC6V" and proceeding as above in (A).

C)To call OQ on a Node such as W6NWG-1, type in "C PALMAR" to connect to W6NWG-1 on Palomar Mountain.

After you get a CONNECT to PALMAR, type in CQ ANYONE AROUND Tonight? <ENTER>. Note that you do not have to use ur callsign because you put that into ur TNC when you first set it up. The Node transmits "AC6V>CQ ANY ONE AROUND Tonight?"

A station wishing to reply does so by connecting to the OQ caller's callsign.

To check for stations calling CQ, type "USERS" and look for stations calling CQ.

When calling CQ, the node maintains ur CQ status for some predetermined time, usually 15 minutes or so. To stop the CQ, type another command or disconnect with a BYE or DISCONNECT.

- A G O G O -

(5-89) Tried to move our 147.135 to 147.130 & failed ..Mexican licenses are \$30 (abt \$70 now -Ed) ..95+ at club mtg ..report on Potter Jr.HS ARC in Fallbrook ..LtGen. Butch Griswold-KODWC WW II fighter pilot died ..Jo-KB6NMK took orders on PARC blue shirts with new logo designed by Dan-WL6BIM.

- N E T S -

—146.7 RITTY Net, Sunday 2030 %%%
(Daily QSO 2030-2130 N6TEP*)

—146.73 NIGHTLY %%%
MON. 1915 RACES N.Co.Sub-Net N6GNB*
2000 San Diego County Traffic Net
(except 1st Wed.club Mtg
M-WALZEN, T-N6RVO, W-KJ6QO, T-W6EYP
F-KD6JXY, S-KE6VX, Su-N6TEP*

Alternates: _____, _____,

MON. 2100 S.D. Microwave, N6LZW*
TUE. 2100 S.D. Packet Voice, KB5MU*
WED. 2100 Spanish, W6HCD*, KA6FPS*
W9FQN (2nd and 4th Wednesday)
THU. 2100 Computer Help Net, KC6JXY
_____, W6QCA, N6YMD, N6ALA*

Alternates: KC6YOX, KC6CDH, WB9COY
ARES 0830 Emerg.Serv, *W9FQN, KB6NMK
WA6UTQ, N6QJE, W6JSP, N6WEG-N6WEF
W6HCD, WB6HFE, N6QQF
SUN.1000 SUN. SAILERS, W6QCA*, AA6TR
2100 THIS WEEK IN SDCo., W9FQN*
KD6JXY

—147.075 NIGHTLY Mo->Fr %%%
1900 Code, 20-5pm, M-KB6JFA, T-WA6YOO
W-W9FQN*, T-KC6QHU, F-W6MYV /WA6TIL
2015 TUE MARA EmergServ.KE6VX*, W6Z
2000Wed LicenseTheory, _____,

KC6UQH, N6YMD + others
2000 THU HAM HELP, _____, N6YMD
KC6UQH, AB6QT and others

—147.13 EVAC 2/4th Tue.1900, KH6TL*
MON->SUN KING HENRY's Round Table
at 2200 WBOYCO*

PARC Net Coordinator - W9FQN

OTHER NETS

MONDAY 1930 RACES on Net 147.195
NIGHTLY 1:30Z Maritime Net 28.313
So.Cal. Mark-AA6TR*

SAT ARES + ?? 52.54sFM Dave-KC6YSO
SA-SU 2000 SSB 28.34 KD6AKT WBOYCO
* Managers, send updates to ur Ed.

The Palomar Amateur Radio Club supports the above 28 nets during the week with its repeaters located on Palomar Mountain. We will add additional nets if there is a demand for them by the amateur community. The purpose of these nets is to bring our club members closer together, to answer their questions about amateur radio, and to provide emergency communications to the San

Diego Community. =SK=

Stations considering being net controls or present net controls who need new Net Control sheets, please contact Stan-W9FQN at the next meeting for a current copy.



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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SAN DIEGO CO. T R A F F I C N E T
de Charles N6TEP

Long time net control, KE6VX-Bob, needs to be replaced on the Saturday night SDCIN. SDCIN really needs net controls, assistants, and troops to deliver the messages.

Everyone can participate since messages can be delivered over PARC's autopatch system when the calls are far away ..and besides, it gives you good practice in message handling and in the use of the club's autopatch system. If you can't be a net control, then check into the net and pick up some messages that need to be delivered to our service personnel's families all over San Diego County. Most of the messages are from SHIPS AT SEA with Navy and Marine personnel aboard who are sometimes bored stiff and crave contact in any way possible with loved ones in the San Diego area. Here is a chance to to something for your country and for amateur radio beside getting practice for the BIG QUAKE which is coming. WE NEED YOUR HELP!

This net operates nightly at 2000 on 146.73. The net has two basic purposes:

1)To provide practical on the air training for amateur net traffic operators using ARRL guidelines, protocols and procedures. The net handles general message traffic into and out of SDCo. In addition to universally accepted amateur radio procedures, we use the latest international/military phonetic alphabet to spell difficult words.

2)To be useful to and supportive of the San Diego community by delivering free messages and pass outgoing traffic, especially to and from members of the armed forces and their families.

For a few years, the traffic volume was manageable in the allotted time of one hour each night. But since the actions in Grenada and the Persian Gulf, the traffic volume has increased so dramatically, especially from military sources, such as MARS, that we had to change our methods. To speed up the traffic, some of our net operators started to use digital methods, such as packet and RITTY, because it became evident that many messages would simply not be

handled, if we persisted in using the old pencil and paper voice process.

We needed better equipped net members with additional skills, another repeater on the mountain to accommodate RTTY traffic, and a telephone autopatch that would enable any net member in any SDCo telephone prefix area to deliver messages to any other prefix area without incurring untenable long-distance telephone bills.

The Club accommodated both needs. We now have our own RTTY-only repeater on the mountain and an autopatch system second to none we know, all installed and paid for by our Club. We own our own property at the transmitter site and are probably the best-equipped and managed amateur radio club in Southern California. Current membership is around 750.

Due to circumstances we don't fully understand, net operation membership has dwindled to just a handful of regulars who take that responsibility seriously enough to be there without fail at least one night a week. Currently, we don't even have one net control operator for each night of the week -not even mentioning alternates. For having 750 members, this is a dismally poor showing, unless 95% of the membership is just a bunch of joiners without purpose.

As has been pointed out repeatedly, if for no other reason than to maintain a much needed service for our military personnel and their families, we will keep this net going, come what may. There has been much discussion about the reason why after a full-page appeal to the membership in the February SCOPE, not A SINGLE MEMBER has come forward with an offer to help keep this net going! NOT A SINGLE RESPONSE! It almost seems as if the members are scared to death to get involved with anything that carries any hint of even the slightest responsibility.

Or are we just spinning our

wheels turning out the SCOPE, and nobody reads it? (I have been told that before -Ed).

It was finally suggested that we put on some training sessions for members who want to become more effective radio amateurs by learning about message traffic -perhaps those who feel embarrassed to come up on the air and offering their help for fear their ignorance might show.

What we need is a larger number of operators showing up each night to take messages, so that the 3 or 4 that typically check in won't have to handle the whole burden. We also need a net control operator for Wednesday nights.

After all, we are talking to licensed radio amateurs here, not a bunch of CBers, so we aren't asking anything unreasonable or impossible. If we fail again, we can always remain the elite minority of doers who nowadays are the backbone of many organizations whose vast majority only want to exercise their jawbones instead of their brains.

We need to know:

- A. How many members would be interested in message net training?
- B. Who has or will soon acquire RTTY capability?
- C. Who can handle Packet?
- D. Who can operate one night a week as net control or alternate?
- E. Who needs building confidence to overcome microphone fright?
- F. Who wants to be saved from an epitaph lie: "All he did in his life was leave seat prints in the sands of time?"

Write to N6TEP, 856 Redberry Court, San Marcos, CA 92069. If you don't write, call 471-0439 or get on the net some night and give us your name.

Otherwise, may you rest comfortably in the knowledge that you lived a perfect life and never made a mistake -because you never did anything.

WE NEED YOUR HELP!

A T V N E T ? ?

There is the possibility that sometime in the future we will need to have an ATV net or possibly it might be combined with the HAM HELP net on Thursday evenings. Ultimately, there will probably be an ATV net on the ATV frequencies but this will probably turn out like the Packet net. They have their net on 2m but work on the packet frequencies. Nets on Packet or ATV don't get members on to these newer modes.

Club members with video cameras will be encouraged to make up tapes of things of interest to the amateur community for showing on the new ATV repeater.

C O D E N E T

Many thanks to STEVE Greathouse, KB6JFA, and GORDON Fritts, W6MYV, for consenting to act as net controls on the PARC 7pm code nets for Monday and Friday evenings respectively. Also to WA6TIL, Paul, who has indicated an interest in helping the CODE net and has probably worked himself into a spot by the time this hits the stands. We still need backups for all evenings who can send computer code. WE NEED YOUR HELP!

T H I S W E E K I N S . D .

We need four additional amateurs to conduct this 9pm Sunday evening net which consists of the national NEWSLINE report and what is happening in San Diego for the coming week. All you need is a fairly good reading voice. Most of the net is taken up with the playing of the weekly NEWSLINE by Ed-N6MCU. WE NEED YOUR HELP!

R T T Y N E T

Art-KC6UQH has some \$10 printed circuit boards for the IBM computers which allow you to send and receive RTTY. Ken-N6ALA has built up the first board and you can contact him if you have questions. Several club members now have these boards on 146.7. You can be there to if you have a 2m xmtr, IBM computer, and the RTTY board! They are also pushing some \$15 packet boards too.

Those who have their RTTY units up and running should check into the 8pm 146.73 evening SDCIN to arrange to pick up messages on the RTTY frequency of 146.7. Use the autopatch system to deliver the messages. **WE NEED YOUR HELP!**

WORK PARTIES

If you are on a work party, make sure that it is reported to the editor.

(2-4) MIKE-AB6QT installed newly programmed chips into the 146.73 and 147.075 repeater controllers because of a bug that under certain conditions caused unexpected results. We hope that the 146.73 repeater will not broadcast a letter "P" for power failure when none has occurred. Mike also picked up some more temperature readings for us to digest from the new building.

(2-6) ART-KC6UQH, MIKE-WA6SVT, BILL-KB6MCU, and GENE-WB9COY visited the repeater site to look at the space available for installing the new ATV repeater equipment. Mike indicated that PARC has the best grounding system of any of the mountain top repeater systems that he has ever seen which makes us all feel good ..at least until we get a DIRECT HIT!

(4) STAN-W9FQN visited the site twice. Once to take up equipment and to show a ham from Africa a repeater site while a repeater was being worked on and the second time to show a 220 repeater group the site.

(5-14) SDCo. was overcast but Palomar Mountain was beautiful with a flush of green growth and the sun shining brightly. Bill-KB6MCU, Mike-WA6VST, and Gene-WB6COY (later in the afternoon) set up the new ATV repeater and in the afternoon had it transmitting a TV picture but they ran into some problems with an oscillating pre-amp which had to be taken off of the mountain.

ED-N6GZI, MIKE-KC6VHI, and

Mike-WA6VST were the chief tower climbers and installed at the top of the 80' tower 4 antennas: 146.43s ATV intercom, 1241.25 ATV transmit, 919.25 ATV receive, control antenna.

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The climbers were assisted by JIM-N06E and DAVID-KC6YST who helped the climbers from the ground and also assisted in other projects.

Everyone helped with the new 220 repeater antenna. The new 220

repeater was installed on a trial basis in the old block building along with the old 220 Club of San Diego repeater. Interference was noted with a mix probably coming from one transmitter feeding into the other thru their antennas, being amplified with the mix coming in on the 220 club repeater.

Everyone had so much fun that most of them did not leave the mountain until 8pm and had to drive back to civilization in the dark and light rain.

(5-15) Bill-KB6MCU, Mike-WA6VST and Gene-WB9COY brought up the repaired 919.25MHz pre-amp and found that it still oscillated. After much work, and substitutions, they were able to receive a P4 picture part of the time from Gene's ATV station in Poway which was pretty good for coming thru the light rain again around 3,500 feet.

Mike-WA6VST and Stan-W9FQN were the climbers and ran more heliax up the tower to the new 1/2 dish antenna to be used for linking..

JOHN-WB6IQS helped Stan replant some trees (5) and they both worked on the new 220 repeater problem which was discovered the previous day.

Stan, John, and Art-KC6UQH moved the new 220 antenna to directly below the 220 Club of San Diego (CSD) antenna and they were able to achieve a workable situation until a pass cavity can be obtained for the 220 CSD receiver which CSD originally installed without one. It was noted that the CSD repeater took up almost the space of four repeaters in our rapidly filling bunkers.

JERRY-WB6FMT called the site for autopatch connector pin information and announced that the 2nd generation autopatch system had been finished and tested on the ground. We will try to install it sometime in the near future although we don't have to hurry since the old patch system has been working.

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 | |

one problem at the autopatch centers and only a minor glitch at the repeater site a year or so ago.

Art also soldered in one more ground rod to the perimeter ground system so the 220 repeaters could both be tied into the new ground system. Art tore into the 147.13 repeater installing quite a few bypass capacitors in an attempt to eliminate or reduce its emission of a third harmonic which was falling into the 70cm band causing problems. The problem still needs more work.

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.

SYBIL-WA6GIC cheered everyone on and made sure we all kept busy.

It again was a beautiful Spring day on the mountain ..and again we left late (7PM) ..and again passed thru the 3,500 to 2,000' drizzle layer ..but we left the mountain with the ATV working and the 220 repeater problems partially solved.

Normally work sessions start at the repeater site around 10:30 to 11am and last until 2-3pm but these last two work days had a lot to accomplish and were the first repeater site work days of the new year.

(5-17) Bill-KB6MCU went up to the site to look at an ATV repeater system receiver that was not working properly. Bill was supervised by his mother who enjoyed the trip to PM.

~~~~~

EDITOR Stan-W9FQN 30311  
Circle R Ln  
Valley Center, CA 92082-4806  
749-0276, 11:30am or 9:45pm

The ATV article in the May SCOPE was by Sybil-W6GIC. The ATV 2m uplink's PL is now 97.4.

# SCOPE

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Editor, 30311 Circle R Lane, Valley Center, CA 92082-4806

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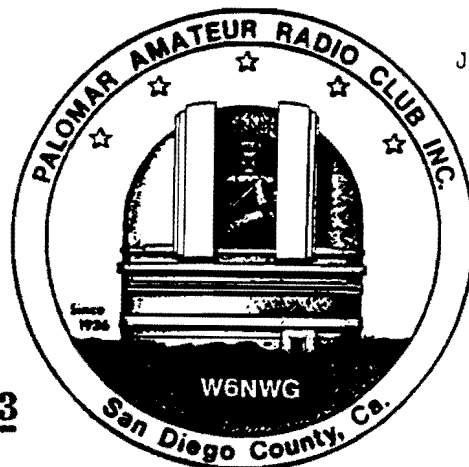
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# Scope

W6NWX

**Palomar Amateur Radio Club Inc.**

**Post Office Box 73, Vista, California 92085-0073**



JUL'94

JULY \*\*\*\*\* 1994 \*\* 58 YEARS OLD

Volume XX, Number 07

Published monthly by PARC

an ARRL Special Service Club

Membership \$12including \$3for SCOPE  
outside SDC.\$4,Coffee7pm,Mtg.7:30pm  
Carlsbad Safety Center(CSC),Palomar  
Airport Rd.to N.on Camino Real(S11)  
east on Faraday .25 mi,left to CSC,  
ThomasBro.Pg.14F6. Talk-in 146.730.

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CHULA VISTA, Steve-N6RUV,422-4415  
ESCONDIDO \*\*\* Harry-WA6Y00,743-4212

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VISTA, . . . Jack-KI6JM,598-0420  
SAN MARCOS, Rusty-AA6OM,747-5872

(Head PARC VE testing program)

Prospective amateurs ONLY can call  
1-800-32-NEW-HAM @ the ARRL Hdq

8am-5pm ET M-F for Ham Info.

Ham Radio info: call ARRL Hdq. 8am-  
5pm ET M-F, 1-800-32-NEW-HAM

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## OPEN REPEATERS / CLOSED AUTOPATCHES

PARC PALOMAR MT. REPEATERS(W6NWX):  
Patches: 146.73-,147.075+\*,147.13+\*  
449.425-\*, & 146.7-\* RTTY;  
PACKET: 145.05s & 70 cm METROLINK;  
SIMPLEX: 145.350s, 145.520s, 446s;  
ATV: 1241.25T(out) / 919.25R(in),  
ATV Intercom 146.43s PL 79.7Hz.  
OTHER:224.38-(KK6KD);224.9-(WD6HFR)  
146.175+\*(WA6IPD); \*=107.2Hz  
COVERING 2000 SQ-MI OF SDCo.

## 1994 ARRL S.W. DIV CONVENTION

Pre-registration Until Aug  
10th is \$12 & at the door \$15.

Use the registration form in  
your April SCOPE or pick one up at  
the next club meeting. HRO also has  
registration forms.

There will be many interesting  
program sessions along with the  
latest in amateur radio equipment  
on display. You need not be an ARRL  
member to attend.

It is really great being able  
to visit with the factory  
representatives of the companies  
you have bought equipment from and  
to see their latest updates in  
radios. You can spend hours just  
walking around looking ..touching  
..and asking questions about how  
that neat little thing works.

MARK YOUR CALENDARS: August  
26, 27, and 28th at the Town &  
Country Convention Center in San  
Diego. There are over 7,000 hams in  
SD Co. Lets hope that you will be  
there to support the '94 convention  
with your presence.

(Cont. next col.)

## CALENDAR

Now --> Jul.4th END of DelMar Fair  
Jul 6 Wed. Palomar ARC Club Meeting  
Jul 8 Fri. Shuttle Mission STS-65  
Jul14 Thur. PARC 7pm Board Meeting  
Jul 9 Sat.PARC VE Tests Carlsbad SC  
Jul16-22 Comet SL-9 strikes Jupiter  
21 fragments = 50,000,000 A-bombs  
Jul22 DEADLINE FOR SCOPE ARTICLES  
Jul26 SCOPE placed in mail at Vista  
Jul31 END PARC CLUB YEAR,dues\$12/21  
- - - - -  
Aug 1 START NEW PARC CLUB YEAR \*\*\*  
UR last SCOPE? Pay dues NOW!

- - - - -  
Aug26-28 SW DIV CONVENTION SanDiego  
Sep 3 Palomar Mt.Fire Dept BARBEQUE  
Sep18 PARC Picnic Lake Hodges \*\*\*\*\*

## NEXT MEETING KC6UQH

Art McBride-KC6UQH, VP and  
program chairman, has announced  
that the June club meeting will be  
a program by our club Secretary,  
Nash Williams, W6HCD, who will be  
speaking on Solar Panels and  
associated battery systems with  
demonstration panels as part of the  
program.

SHOW & TELL: Talk to Art-  
KC6UQH B4 the meeting to reserve  
time for UR S&T item(s).

## SWDIVCONV \*\*\*\*\* Cont.de Col. 2)

Many of the presenters and  
people behind the scenes are PARC  
members.

This is a fantastic oppor-  
tunity for new hams to see the  
various faces of amateur radio and  
to learn while having a good time.  
SEE YOU THERE ALL YOU EARLY BIRDS!

**BOARD MEMBERS present:**

President: Harry Hodges, WA6Y00  
 VPresident: Art Mc Bride, KC6UQH  
 Secretary: Nash Williams, W6HCD  
 Treasurer: Jennifer Thieme, KM6WG  
 RTechnical: John Kuivinen, WB6IQS  
 SCOPE/etc: Stan Rohrer, W9FQN  
 Membership: Ralph Powell, KC6WAN  
 Board Member: Mike Doyle, AB6QT  
 absent KC6LV

- also present -

OTHERS: Bill-KB6MCU/Sybil-W6GIC(ATV)  
 John-KE6CDH, Mark-N6NNI

club members are invited to attend Board meetings to observe the Board of Directors in action ..or non-action ..and receive one activity pt. for attending. GREAT BROWNIES, HARRY! (Time 7pm-10pm)

- SECONDS -

(or MINUTES this month?)

**DISCUSSED:** EquipBal \$1786, General \$998, PrePd \$4915; programs; training classe; work party; membership 794; temperature in bunkers and KB6MCU fans/filters with temp timers; special club workshops; 224.38 90da test period; SWDiv Conv; Field Day; 1st board personality "rhubarb" in 10+++ years AND WE HOPE THE LAST; donated equipment by Dave Fender (dish) and SANDRA dish problem; Amateur radio tower height limitation of 35' in San Diego; etc.

**APPROVED:** membership cards and business cards for August 1st '94; \$126.09 for autopatch parts; re-affirmed autopatch use for delivering SDCTN 8pm traffic where it cannot be delivered by normal net members (the mail must get through); September Club Picnic Sunday 18th of September at Dixon lake (pro/con) with Palomar Mt. Park under consideration for next year; etc.

Please contact one of the board members for more info or see the secretary for written minutes.

**NEWSLETTER HELPERS JUN. SCOPE**  
 KI6JM, Jack Hanthorn, Folding, Refresh  
 KC6WAN, Ralph Powell, Printing, Labels  
 KD6RFM, Emilio Spelgatti, Folding  
 N6WQR, Bernice Rosenberg, Folding

KB6YHZ, . Art Nye, . Folding  
 WA6Y00, . Harry Hodges, . Staples  
 KB6YHY, . Anita Nye, . Labels  
 N6TCB, . Jerry Carter, . Labels  
 W9FQN, Stan Rohrer, Editor, PO Forms

ing in fun & games. Jokes told R  
 "out of this world!"

## LAST MEETING

In attendance were 94 members, 13 guests, for a total attendance of 107. PLEASE COME EARLY and help set up chairs.

Many thanks to Pat Bucholtz for a very interesting program on LOST INCA GOLD. It reminds your Editor that he knows of "booty" that was burried during the Mexican revolution in the state of Oaxaca, Mexico, that has never been dug up.

SHOW & TELL featured John-KD6CDH with a poor man's packet (\$20) demo, Bill-KB6MCU and Gene-WB9COY with ATV items that can be used with PARC's new ATV repeater, and Bill-KC6Y0X showed your editor a very well constructed 6m filter (2 section) with a pretty good response curve. Its good seeing amateurs who are not afraid to "roll their own."

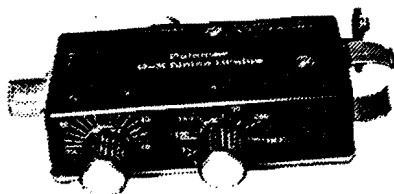
ART-KB6YHZ supervised the coffee with BECKY-KE6BUE and Gerry Jones supervising the drink and goodie table with members bringing goodies: KD6AKT, K6YBK, KE6BUE, W6GIC, KM6BY, N6ISC, KD6YKX, KK6LX, KE6CDH, N6TCB, KC6VVT, KE6BZP, KE6BZM, KE6CLM, KE6BG, KD6YJB, WB6GXR, & KM6MW. We thank everyone for the donations to the goodie table which needs to replace coffee equipment from time to time.

The goodies were great & U were rewarded with "1" participation ticket.

- A G O G O -

(7-89) First PARC autopatch suggested with outlet in Escondido (not done) ..John-WB6IQS installed the new 146.05 packet repeater ..Rd 78 being widened ..Chuck-KI6TG running club's computer net.

## 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.

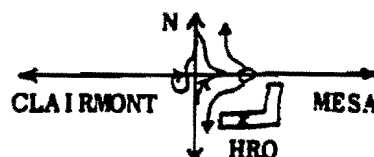
# Palomar Engineers

Box 455, Escondido, CA 92033  
 Phone: (619) 747-3343

The Fold-Staple-Multilate-The-SCOPE-group meets at Jack-KI6JM's QTH in Vista at 12:30pm and finishes abt 2pm. WE CAN ALWAYS USE MORE HELP. FSMTS is Tues of the week B4 club's 1st Wed club meeting. Receive 1 activity pt 4 participat-



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PRESIDENTIAL QRM WA6Y00

Would you like to invest 87 cents and have it pay big dividends in your future? Sure you would! How do you do this you ask? Well, I am going to tell you. What I want you to do is to write a simple letter to each of our two senators, Senator Barbara Boxer and Senator Dianne Feinstein, 112 Hart Building, Washington, DC 20510 and ask them to become cosponsors of the important Amateur Radio Service Joint Resolution, S.J.Res.90.

After you have done this I want you to write a letter to your representative in congress and ask him or her to become a cosponsor of H.J.Res.199 (ARS Joint Resolution) and H.R.2623 (ARS Volunteer Service Act). Now, isn't that simple? You can find your representative's address in the local library, by calling information, or by calling me at 743-4212.

What's the big deal about

these proposed resolutions? Well, the first one: S.J.Res.90 and H.J.Res.199, if passed would make Amateur Radio a congressionally recognized, national resource. It would support us as "national policy" and could call for regulations that "facilitate" Amateur Radio operation as a "public service". There is real substance here, with significant, tangible benefits for Amateur Radio.

The second resolution, H.R.2623, would recognize the efforts of Amateur Radio in the support of others and to relieve us of liability when doing our job in good faith. It would prevent frivolous law suits against Volunteer Examiners by someone objecting to failing the test and other forms of liability when working parades, bike rides, endurance runs and other community activities. Believe me, in this litigious society that we now live in, we can use all the protection we can get.

So sit yourself down, with pen and paper in hand, and write a short note to your local congressional representative and our two senators. Ask for their support and make mention of what you have done to support your community through the use of amateur radio. With any luck and the support of all amateurs we can look forward to Amateur Radio being recognized for what it is: A National Resource.

73, Harry WA6Y00.

MEMBERSHIP KC6WAN

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

ASSOCIATE members who have received their new calls should report them to me along with their expiration dates ASAP so that our records can be updated. =SK=

The club is selling PARC blue hats with the PARC logo on it for \$5 and we are also selling the commemorative HAM 5c STAMP PINS for \$5. See me at meetings. Sorry, but we are out of the PARC blue shirts. If there is enough interest, we will make up another order. =SK=

FROM TIME TO TIME CLUB MEMBERS SHOULD CHECK THEIR ADDRESS LABEL TO SEE THAT THEIR LICENSE EXPIRATION DATE IS LISTED UNDER LX-yy-mm. IF YOUR LICENSE EXPIRATION DATE IS NOT LISTED OR IT IS DUE TO BE RENEWED WITH THE FCC WITHIN THE NEXT SEVERAL MONTHS, YOU HAD BETTER GET ON THE STICK AND GET IT TAKEN CARE OF NOW SO THAT YOU DO NOT HAVE FUTURE PROBLEMS. Send license expiration corrections to me at the club's address or see me at club meetings. I am the guy at the back of the room dressed in a white jump suit. I will JUMP FOR JOY if you sign-up for another year or two ..or three.

PLEASE CHECK YOUR ADDRESS LABEL TO SEE WHEN YOUR MEMBERSHIP NEEDS TO BE RENEWED. IF IT READS 9406, THEN THIS IS YOUR LAST SCOPE AND YOU WILL NEED TO RENEW IMMEDIATELY to keep your membership current and to have access to the club's autopatches.

Membership is 800+ ..and climbing.

CONGRATULATIONS TO OUR 800TH CLUB MEMBER: MIKE QUITUGUA WB6HPV.

THANKS TO ALL OF YOU WHO ARE RENEWING OR SIGNING UP FOR MORE THAN ONE YEAR. WITH OVER 4,000 SLOTS TO FILL AT THE END OF THE CLUB YEAR ON JULY 31ST, IT CAN REDUCE MY WORK LOAD BY HALF (on the average). Some club members are signed up until 2004!

(new)/(RENEWED):

3yrs= KB6QH-BOB WD6AHW-DEWEY  
KA6DXH-WEILER K6LNJ-PEARCE KA6QFF-  
MCCORMICK kd6jxr-Tom kd6tcp-Rob

2yrs= WB6BCX-HAMMER KD6RFR-  
ALVARADO

1yr= WA1ZEN-TIM W60LQ-JOHN  
N6PDZ-BARKER N6PEA-BARKER WA6PLX-  
WEST KD6QK-HILLER N6SAN-WILMARTH  
KD6JXW-BURNS KD60TK-MUNOZ KD6JPN-

AMANN W6XE-DAVE WA6KZN-BOB KD6LP0-  
ART KC6VVG-ALLAN KD8CA-PAT n0xsu-  
Eric wa2gww-Russ n4uwx-Kevin  
ke6gxt-Rick ke6gsi-Gebler wa6ukl-  
Knott kw6z-Ed ky6b-Shirley kc4zmv-  
Ed ke6cbc-Don ke6fst-Ken ke6fxm-  
Dexter Calvin-Macy Box,Lon.

CHANGES: none

73, Ralph 727-7415

\*\*\*\*\*  
E N D O F Y E A R  
\*\*\*\*\*

PLEASE RENEW NOW! SINGLE  
MEMBERSHIP IS STILL \$12 AND FAMILY  
\$21 (12+9).

YOUR LAST NEWSLETTER IS SENT  
OUT JULY 26 FOR THOSE WITH LABELS  
9407 AND YOU WILL NEED TO RENEW  
BEFORE AUGUST 15TH TO CONTINUE  
BEING A MEMBER OF PARC. YOUR  
NEWSLETTER (SCOPE) AND PHONE PATCH  
PRIVILEGES END AFTER YOUR LABEL  
DATE OF 9407.

IF YOUR LABEL READS AFTER  
9407, YOU ARE SAFE UNTIL YOUR  
MEMBERSHIP EXPIRES.

\*\*\*\*\*  
- C O N V E N T I O N S -  
\*\*\*\*\*

What's in it for me? WA6Y00  
\*\*\*\*\*

Many times I have heard from a  
fellow Ham: "I never go to a con-  
vention, there's nothing there for  
me". Such comments never cease to  
amaze me for I feel that such an  
attitude indicates that the indi-  
vidual really doesn't understand  
what he or she is missing.

First of all, amateur radio  
conventions, like the ARRL  
Southwestern Division Convention  
coming up here in San Diego the  
last full weekend in August, are  
put on by amateurs, for amateurs.  
Usually, the sponsor is a council  
of clubs, as in our case, SANDARC,  
and if there is a "profit", the  
residuals go to finance the volun-  
teer Examiner Program, provide  
emergency communications equipment  
for hospitals, and support other  
council activities, all of which  
are worthwhile.

Having said this, the question  
remains: How does the individual  
benefit? Well, to begin with, it

gives you a chance to get away for  
the weekend with your family (or  
maybe you park the kids at  
grandma's house and have a mini-  
honeymoon), you can go on a harbor  
cruise, see all the latest whistles  
and bells on the equipment dis-  
played in the vendor's arena, learn  
what's new in the various technical  
and operational aspects of our ser-  
vice and of course get to meet the  
people behind the voices you hear  
on the radio on the morning commute  
or low band rag chew nets. The  
technical forums are always educa-  
tional - haven't you always won-  
dered how packet, RTTY, satellite,  
ATV, and so on REALLY work? You can  
learn what's up in youth activi-  
ties, the ARRL and MARS, new FCC  
rules, and in general the future  
prognosis for our beloved service  
(and hobby). For those of you who  
have fantasies, you can learn what  
it is like to peddle a com-  
puter/radio laden recumbent bicycle  
across the country or vicariously  
visit far-off lands with the  
nations's best DXers. The biggest  
problem I have at conventions is  
the either/or decision I must make:  
Do I go to this or that technical  
session and if I do will I regret  
having missed the one I selected  
out?

Remember, there is something  
at a convention for everyone. If  
you don't go YOU are the one who's  
losing. For a small investment in  
time and money you'll repa ample  
rewards. And who knows? You may be  
the one who wins one of the great  
prizes. See you there! 73, Harry.  
NEWS \*\*\*\*\*

MUGS: BEST IMPRESSIONS of  
Ramona is offering to make up mugs  
with your CALLSIGN and HANDLE (ur  
name) on one side and the other  
side the PARC logo (just like the  
big boys), which is a direct copy  
of the one on the front of the  
SCOPE, all for reasonable prices.  
Contact Stan-W9FQN at the next  
meeting for looking at a sample mug  
and the latest on pricing. =SK=



WB6IQS      REPEATERS      W9FQN

The 146.73 repeater was turned off because of deliberate interference on: 6/2, & 6/3. About this same time frame there was a 16 hour outage due to a fan failure resulting in a heat sink problem. =SK=

Talks are going on with the new 224.38 group (Americas United) making a 90 day test period in the old PARC bunker. So far all problems have been solved and they seem to be quite please with the coverage of their repeater. They are mainly a Spanish speaking group covering all of SD Co. and we are looking at their possible relationship with PARC. =SK=

Talks are "on going" with the 224.9 SDCo 220 Club concerning their repeater which is also in the old bunker. Talks are mainly about them constructing a new repeater or re-packaging their old one which would be 1/4th the size of their present unit and areas of cooperation with PARC. =SK=

A spare repeater is being built up by Bill-KB6MCU which will be channeled up for 146.73, 147.075, and 147.13. This repeater will be used this summer to allow us to remove each of the repeaters for routine maintenance and to make certain modifications that are on our "to do" list. We do not know at this time if an autopatch connection will be built into this spare repeater so the repeater frequency with the "spare" repeater might not have an autopatch on it for several weeks. The TCMS hope that having only three autopatches to use will not be too much of a burden or inconvenience to our club members. =SK=

WB6FMT      AUTOPATCHES      W9FQN

PROBLEM: The new computer monitoring and control system is starting to give us some

information about how some of your calls are not going through the system properly. It would appear that many of our members are trying to run autopatches using HTs from some very poor locations using very poor antennas and techniques.



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  
542-1405  
**Antenna  
Specialties**

XXXXXXXXXXXXXXXXXXXXXXX

## Printed Circuit Board Design

J.T. (Tim) Low  
N6ZUC

Phone or Fax @ (619)735-9125

2946 Amanecer Place  
Escondido, CA 92027

XXXXXXXXXXXXXXXXXXXXXXX

One of the biggest problems is where you send the control codes, get a dial tone and pick up a female telephone operators voice (not PARC's) saying that you do not have access to something. Our

computer prints out the number it heard which is the same number that the autopatch center heard ..and it is not the number that you dialed. Why?

Well, there are several possible reasons with the basic one being that you do not have enough signal to reach the repeater site for a full quieting signal. With a poor signal several things can happen:

A) If you push your TT pad too quickly or make the tones too short, you run the chance that due to your poor (weak) signal that one of your tones will not reach the repeater and it will never be heard which results in a missed digit in the needed 10 digits (3+7) to operate the autopatch. If the 3rd digit is missed, then the 4th digit becomes the section number resulting in a misdirected call to the wrong patch or to a non-existent patch. If one of the last seven digits is missing, nothing happens until the PACBELlet comes on and indicates a problem. Clear the patch with a "#", then re-dial everything from a better location. ALWAYS START OVER BY pushing the "#" key to reset the computers.

B) Sometimes with problems in (A) you decide that you are in a bad location or mobile using an HT so you decide that this time you will get the tones through regardless of your moving or your bad (marginal) location so you press each digit and hold it for 10 seconds on each digit (exaggeration). Result? The repeater (computer) hears a digit 10 seconds long! WRONG. The computer hears a number (ie "1") which is broken up 5-10 times as your mobile passes through good and bad locations resulting in the computer receiving 1 1 1 1 1 1 1 1 1 1! So, those of you who think that you are making the digits longer so that they will be heard more clearly are GREATLY INCREASING YOUR CHANCE OF AN ERROR. Sometimes these long digits are just broken up into "double" digits

and of course one digit error is all that is needed to get the wrong number or the PACBELL lady giving you advice.

Some member is dialing a 3-digit access code(ABC) and it comes out like this every time he dials: AAAAA BBBB CC. Of course, he thinks its a lousy patch since he probably has a very marginal signal and never gets the autopatch to function properly. The computer thinks it is someone playing games so it dumps the call. KEEP THE DIGITS SHORT!

OUR ADVICE is to not use an HT to make a phone call unless you are in a good location, have a Hot Rod antenna, run high power, or are not moving in a car. It also helps not having to fight the RADAR on 70cm when it is really strong. If you would like to know what the GIANT COMPUTER heard on a specific call that you had problems with, you can contact W9FQN with the exact time and date that the call was made and he can look it up for you on the computer logs.

Everything we have seen so far indicates that most FAILED PATCHES come from someone with a weak signal or dialing an incorrect sequence of numbers. Some members seem to make the patches work everytime they dial a number and others just never seem to make it on a regular basis ..and they usually have HTs and are mobile. Remember, under weak signal conditions a person can miss about 50% of what you are saying and still understand the intent of your communication but if you MISS ONE DIGIT you have a FAILED PATCH. There is also reason to believe that some of your TT pad keys are so small that your finger slips off a key such that you get two digits or your big fingers hit two keys close to the same time. Sometimes we see you dialing almost the same number immediately after a failed patch and it looks very similar to the first number except the first number has double digits or extra digits (ie 12-13) which are up or

down on the TT pad from the number that "got thru." =SK=

The next phase of the autopatch system is completed and members should be aware of at least several modifications starting in July 31st (or earlier):

- 1)Unlimited time on 911 calls.
- 2)Patch busy signal when it is used on another repeater.
- 3)Provisions for "automatic" dump of improperly used phone numbers> language, business, identification, expired membership,etc.

The patch busy signal will show up immediately after you dial your access code if the autopatch is being used by one of the other three repeaters. You will hear several seconds of "busy" signal and then receive a disconnect. The telephone "busy" signal can come after you have dialed the 7-digit number and is the sound you normally hear when the number called is busy. You can avoid the first "busy" signal by checking the other repeaters to see if the autopatch is being used. The first busy signal will probably be quite rare since control operators have reported hearing only several occasions when two club members wanted to use the autopatch at the same time. =SK=

The prefix 625 has been added to area section #2.

\*\*\*\*\*

#### E D I T O R

\*\*\*\*\*

Stan-W9FQN 30311 Circle R Ln  
Valley Center, CA 92082-4806  
749-0276, 11:30am or 9:45pm

Your editor apologizes ahead of time for several somewhat "negative" articles in this months SCOPE but I had to get them out of my system ..and out of the computer since the computer was starting to feel negative also.

The SCOPE is ALWAYS mailed on Tuesday afternoon around 2:30pm on the week BEFORE the club meeting from the VISTA POST OFFICE. I would like to suggest that if you are receiving your SCOPE on Tuesday or

after during the week of the meeting (one week later) that you complain to your mailman about the "non-timely-delivery" of the SCOPE. There is no reason for it to take seven plus days to get to you. I have received the SCOPE as early as the next day and I live about as far from SD as anyone. It can be done! Remember, 800+ complaints working their WAY UP THE CHAIN are worth more than ONE by me to the TOP. Write a note to your postman or stop by your main office and make a complaint on one of their COMPLAINT forms. ASK FOR A COMPLAINT FORM! From what we have seen, the Escondido post office is probably the slowest in getting the SCOPE out of their buildings after it arrives from the San Diego PO.

We don't just DUMP the mail in the hopper at Vista! We sort 800+ newsletters by ZIP CODE and "bundle" them up for each single ZIP, each town, and each section. We do the PO work for them. All 92025's are together and there is no excuse for them not getting to Escondido in one bundle. Besides the "one ZIP bundle" we also put the 920.., 910.., and LA (CA and other states) bound into different bags so the PO does not have to sort them. If your editor gets the SCOPE the next day, you know that the bag made it from Vista to SD and back up to Valley Center in 24 hours. SO HOW DOES ESCONDIDO (and others) GET OFF DELIVERING THE SCOPE 6 DAYS LATER? FILE A COMPLAINT! Generally, your Postmaster is at fault and he has a form that you can fill out to complain.

Then of course, John-WB6IQS, received his SCOPE a week later ..but only the first page! Just imagine. They had to rip through "TWO" staples to only end up with one page ..and his SCOPE was in a group of about 30 other SCOPES! My, what is this world coming to with a bunch of "rip off artists?" =SK=



FORE SAIL

Please, No Dingies w/o sails

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=

(6-21) ICOM AC bat.chg BC-30 \$25 OB0; Bencher Iambic paddle \$40 OB0; MFJ delux elect keyer MFJ-407B \$40 OB0; Motorola speaker \$5; Curtis N6XXU 727 9254 Vista (wonder what OB0 means -Ed).

(6-20) C-64 + Packrat best offer; 286 comp + mono + 1M HD \$200; Robot Slow Scan w/camera \$50: Ron AA7GL 549 4207 SD.

(6-18) FREE-FREE (QSTs in binders 42-93; 5ea Motorola pageboy 150MHz pagers + drop-in chg/bat; Motorola 150MHz HT220 single channel xcvr wrks; WWII hvy duty charger RA-63D; WWII DC dynamometer 2HV outputs; Superscope prof 3 head var SPD tape recorder needs adjust); Ivan the terrible W6TET 276 7148 SD.

Cushcraft A3 tribander beam with HD-73 rotor gd condx partly disassembled \$140: Peter KG6JA 591 4400 San Marcos.

(6-14) Yaesu 2400H 2m mobile xcvr 50w \$195; Garant Windom balun \$20: Russ WB6IOV 436 6714 Carlsbad.

(6-13) Yaesu FT-890AT w/CW filt \$975; Yaesu FT-530 dualband HT + 800MHz \$350, Delux remote headphones MH-29 \$75, FNB-26 HT battery \$50, charger NC-28B \$20, & charger NC-18B \$20; Astron RS-35M 12v DC pwr supply \$130: Abe KC6UQA 432 8222 Escondido.

(6-10) Kenwood TS930S w/auto tuner & optional filters spkr & MC60 mic \$950; Hustler Mobile AntSys w/resonators 10, 15, 20, 40, 80m mint \$100 or OB0; Butternut Vert 10-75m \$50: Tim NM7V 753 3567 Encinitas.

(6-02) HyGain V-2R collinear gain 2m vertical \$30; AEA Isopole 2-m vert \$30: Duane AA6EE 789 3684 Ramona.

(05-27) XT-5.25FD, HD, mono-

chrome monitor, keyboard, misc software \$125/orB0; OKI DATA Microline 92 printer w/man. \$50; Okidata ML92 Microline printer w/man ex cond \$50: Jennifer KM6WG 599 1134 Vista.

(pwr?) \$5; serial printer \$5; 1200 baud internal modum \$5; 300 baud external modum \$3: Tim N6ZUC 735 9125 Esc (THIS IS RACES ESCONDIDO EQUIPMENT). Also packet 145.07 ESN N6ZUC.

(5-4) Sony CCD-V110/PRO Camcorder, fade, color wipes, character gen, titeler, single frame etc, shoulder model \$395: Bill N6COU 758 7163 Vista.

(5-12) PK-232MBX packet data controller (#49679) ex con swbox man 1991 not used 4 1.5yrs \$200: Joe N6RVO 433 6885 Ocsd.

(4-21) Lots of ATV 0.5W ATV transmitters on 919.25 MHz. \$50: Bill KC6Y0X 433 4626 Ocsd.

(4-16) 40' twr climable \$100; Heath dual-trace scope 25MHz w/2 10:1 probes used <5hrs \$250: Ted WA6BEJ 944 0639 Leucadia.

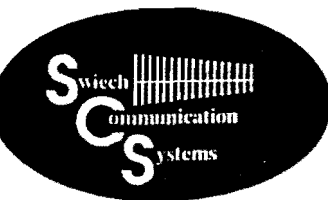
(4-6) HyGain Twr HG52SS, HyGain Tri-band TH6, HyGain 40m mono, HyGain Ham IV rotor, Shakspear 10m vert, 3 cable stand-offs, work platform, ant switch 5 poition, misc guy cable, hardware, coax and control cables, papers. You take down (I'll help). A real bargain/priced to move! All ex cond: Jack WD0DLW 728 0258 Fallbrook (Jack passed away this month so I don't know who has this equipment now -Ed).

(4-5) Commodore C-64 printer new in box \$75; Eltro voice mic \$25; new FT-5200 OB0, will take 2m only w/large readout; Yaesu FL-2100B 10-80m linear w/spare 572's will demo \$600: Larry W7HKI 439 5855 Ocsd.

(03-06) Standard Communications SIA15 Speed Impeller, 11,000 pulses per nautical mile. See W9FQN (with the yellow box) at meetings to view the instructions.

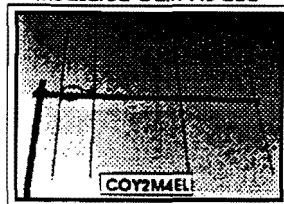
(02-07) IC-24 2m/70cm HT w/PL encode/decode module, charger, 1.2Ahr Periphex ragchewers batter, standard .3mah bat, all ex cond \$400/offer or trade HF xcvr HW-101, ant tuner, KW linear etc: Mike Hamann WB6CSH POBox 2831, Fort Bragg, CA 95437.

(01-06) ICOM 229H xcvr 50w

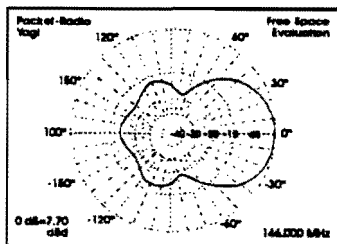


## Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd



H-Plane beamwidth 60 deg  
Bandwidth 144.5-147.5 MHz  
SWR < 1.7 at Band Edge  
Impedance 50 ohm  
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Maximum Power 500 Watts  
Chemfilm Treatment On Brackets  
Balanced Matching System  
Two Part RTV Potting  
Black Delrin Insulators



**(619) 748-2286**  
**Gene Swiech, WB9COY**

(5-19) TrueBlue XT mono monitor, 2-floppies, 640k mem \$100; 2-260k floppies IRM \$10ea; 2-20Meg MFM hard drives \$25ea; 40Meg MFM HD \$40; 3-4 MFM controller cards (2 floppie, 2 hard drive) \$15; JUKI wide carriage non-working printer

mobile + ant never used \$330; 7mo old seldom used JVC Karaoke w/disc player and remote control \$499 sell \$350: Tito KD6SYE 575 5342 ImpBeach.

(12-01) Yaesu FRG-7 rcvr gud cond original carton w/YH-55 headphones, bat & dust cover \$125: Dave WA6HQM 753 2605

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

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

"my picture is in the postoffice"

(6-10) hard disk drive for Zenith laptop ZWL-184-97 and manual for ZWL-0200-02: Mike AB6QT 742 1573 P.Mt.

(5-19) looking for donation or sell cheaply a PK-88 TNC to RACES ESC: Tim N6ZUC 735 9125 Esc (THIS IS RACES ESCONDIDO)

(04-05) HF xcvr 12v-110ac for IOTA(expo)possible early ATLAS-210-215 for IOTA-(expo) 12v-110v; 930 Kenwood & access CPI-MBATEXT for Commodore 64 (RHY); electronic keyer/paddle; Kenwood older mobile 2m 2400 50w? or other: Larry W7HKI 439 5855 Ocsd.

(03-14) Schematic for URN-25F SigGen: Dennis N6KI 271 6079 SD.

A receive 2-meter and/or 70cm converter to 10m: Stan W9FQN 749 0276 VlyCtr.

(01-19) Disk programs for MFJ-1278 multimode to be used in club project: John WB6IQS 724 8380 Vista.

'94CALLBOOKS \$22.95.ARRL Handbook \$23.95. ARRL Repeater Directory \$5.50. Low-Band DXing \$18.95 +tax Call Duane AA6EE,789-3674. PdAd

\*\*\*\*\* V E T E S T I N G AA6OM \*\*\*\*\*

N.Co.FCC LICENSE EXAMS given by the PARC VE Team @ Carlsbad Safety Ctr, Carlsbad (Camino Real to Faraday, 14F6, follow CSC signs East) on 2nd Sat. @ 10am. Reservations less than 2da in advance & walk-ins not normally accepted. VE info: call 465-Exam or

Rusty at 747-5872.

610 FORMS AVAILABLE: HRO, 5375 Kearney Villa Rd. or at club meetings from KB6NMK or W9FQN. An SASE sent to your editor will also get you a 610 form.

Jun 6th TESTING:

Passed e1 2: Constance Birle, Dirk Flint, Diana Smittle, Vic Zech, Pete Birle, Miranda Marcos, & Warren Donnelly.

TEST TEAM: N6ZUC, AA6OM, WA6Y00.

JUN 11th TESTING:

GEN->ADV: WA2GWV

TECH->TECH+: Bill Wright

NONE->TECH: Mike Breau, Charlotte Schaefer, Chris Cassidy, & John Summers.

NONE->TECH+: Juan Lopez Jr.

OTHER PASSES: Sabrina Cassidy (e12), Roman Lamberty (e12) Lois Lamberty (e12), James Ludlow (e14A).

TEST TEAM: AA6UA, WA6HYC, AA6OM, WB6R, & KE6VX.

73, Rusty-AA6OM

\*\*\*\*\* 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 KJ6Q0, ex T5Q0) How many of you can imagine being away from family and friends, often for months at a time, with only an occasional and expensive phone call home? Every day your mind wanders as you look at a few wrinkled photo's, wondering if everything is going ok. Then you start to imagine what a burden it is for them, being without you. The worries on their mind as you spend weeks on end in a far away place, one of a dozen trouble spots around the world. Enter Amateur Radio - A three or four minute MARS call can be a lifesaver, and if you don't agree, tune your HF or SW rig to the MARS frequencies and listen to some ongoing patches. In 1993, I spent six weeks in Somalia and was not only making as many DX contacts as possible, (3200 single op), but made over 400 MARS Phone patches.

To watch grown men cry, not from sadness, but from the joy of hearing their families and know that things are still ok. You could see and feel the boost in moral. Along with SSB, sending MARS radio grams by CW or RTTY provided another link to the outside world. A 30 word message, even days late, was many times the lift that wives and parents needed to help them cope with separation.

The purpose of this note is not to evoke tears, or to take up space in the SCOPE ..it is to try and recruit some additional message handlers for the SDCo Traffic Net (SDCTN). If you can only handle 1 or 2, I'm sure you will feel the silent appreciation of the recipient, and maybe get some satisfaction in knowing you've brought some light into a dark evening. Remember, Amateur Radio is "our" wonderful hobby; but more importantly it is a public service, and that service is a brilliant tribute to the work of countless Hams around the world. =SK=

(KD6ECE) This letter concerns a mistake I made on the air.

I am aware of the fact that I made a mistake on Wednesday, May 18, at around 8pm on 146.73. For those of you who heard me, I am sorry. For those who may have been offended by what I said, I apologize.

I am 15 years old, and although I'm old enough to know better, I still make mistakes. I have never made this kind of mistake on the air before, (and) I will certainly try my best to never let it happen again.

I took it upon myself to write this letter because I understand what I did was wrong, and I felt it was necessary to apologize (PARC accepts your apology. Sometimes 4-letter words do slip out but using them continuously in one's conversation such as 1-2 of our male members do is not acceptable - Ed). =SK=

(de Patrick KD6PZB) Reference

KC6UQG who had a modified HT which he used to summon assistance for his injured friend ..after attempting to use amateur & cellular frequencies ..1st ..SDCo Sheriff's Dept ..should return the equipment immediately ..and the FCC should advise the Sheriff's Dept to back off.

..using Sheriff's frequencies is unusual & should never be used unless there are no reasonable alternatives. Lets say, you witness a felony (murder, rape, robbery, etc.) your only means of fast communications is to communicate via your amateur gear to the Sheriff's Dept ..should you transmit? I say that under these types of extreme situations, the answer should be YES! We as American citizens and licensed amateur radio operators should have the authorization to transmit on any law enforcement or fire department frequency in the USA as long as the transmission is to preserve life and/or property. Also, I believe that this type of ruling should be authorized by the FCC and written into part 97.

..2nd issue ..I have read several times that some amateurs, when in need of assistance or emergency services are unable to find other amateurs monitoring the air and therefore can not get what they require (PARC has an autopatch -Ed) ..I have two solutions ..1st, assign a repeater frequency, solely, for the purpose of emergency or emergency related communications ..similar to REACT. RACES/ARES members could monitor this frequency ..how about that expensive repeater not being used very much ..answer, use a separate PL tone with encode/decode capabilities ..any repeater could be used for normal means and whenever an emergency or urgent traffic arose ..it could be handled without undue hardship to other operators who were not involved ..in addition, I believe that the use of a back-up repeater and two

simplex frequencies would be a wise idea.

**Jennifer A. Thieme**  
**KM6WG**

**Bookkeeper**  
**Accountant**

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**Vista, California 92083**

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**Pete W3ARU's XYL**

2nd ..how about setting up a radio station at the Sheriff's communications center and request that it be monitored by a county dispatcher ..use encode/decode as above ..the amateur op could call on this frequency directly to the communications center for assistance without jeopardizing other vital emergency service frequencies. =SK=

FROM JUNE 15 ARRL LETTER: A case involving a California amateur (KC6UQG?) has let some to ask "Is it legal to own equipment capable of out-of-band operation?" The answer is yes, but it is not legal to transmit out of band, unless the communication is made in connection with the immediate safety of human life or the immediate protection of property, when no other means of communication is available (Sect 97.403, FCC Rules). =SK=

#### WORK PARTIES

REPEATER SITE WORK PARTIES, IF HELD, ARE USUALLY SCHEDULED THE SUNDAY FOLLOWING THE CLUB MEETING. We meet at MOTHER'S KITCHEN on PMT at 10:30am.

NEXT WORK PARTY IS JULY 10TH: grounding, heliax runs, painting, site work, security work, brushing, etc. Contact W9FQN for additional info.

(5-21) Bill-KB6MCU again went up to make adjustments to the ATV repeater. A receiver strip was replaced and filters were adjusted. A good signal is received and now transmitted from PARC's repeater site. The PL on the 2m intercom frequency has been changed to 97.4Hz to prevent interference to LA's ATV repeaters. Bill was assisted by Sybil-W6GIC.

(5-22) Art-KC6UQH installed a pass cavity in the San Diego Club's 220 repeater which was having interference with the new 220 repeater brought up to the site by George Rios, KK6KD, on the 14th. Art also worked on the 147.075 repeater and discovered that one of the cavities had a "rough spot" in its tuning.

Stan-W9FQN was the only one of the tower and installed the new 220 antenna at the 60' level with the help of George Rios and a group of his friends as ground crew. The SWR checked fine but we still do not know at this time if the "operation" was successful in keeping his signal out of the SD 220 Club

repeater. Tests will be run later.

(5-24) Mike-AB6QT found out that the 146.73 repeater shut down because it was running tooo hot without the 12vdc fans working properly. It appears that a bias transistor/regulator went into thermal runaway allowing the final transistors to conduct heating up the repeater to the point where all transmit functions ceased. Replacement fans were installed along with a 110vac fan. The building's black roof will be painted white ASAP to reduce the inside building temperature. He also discovered that a metal "T" coax connector was rubbing up against a metal brace generating noise and several loose screws inside of the repeater probably caused by temperature changes in the building.

(5-25/27) Dave-KC6EBY visited the site for routine maintenance of the club's batteries and found the new building very hot (104F) and is planning on installing a much larger fan in one of the filtered openings. Dave checks PARC's batteries at least once a week throughout the year.

(6-4) Bill-KB6MCU installed a large 10" fan in the upper ventilator in an attempt to reduce the temperature in the new building which has been averaging about 20 degrees above outside temperatures. The highest temperature inside the building during the past six days was 104F. Bill also installed an exhaust fan on the ATV repeater so that all of its heat went to the outside of the building. Stan-W9FQN painted the black roof white in an attempt to further reduce inside temperatures. He also cleaned up some of the brush at the site. At the end of the afternoon he was given a tour of channel 19 (several miles from our site) which Bill does service work for on a regular basis.

(6-8) Harry-WA6Y00 and Bill-KB6MCU picked up a donated 10' dish from Dave Fender-K6QL to be used in the NASA Select transmissions to

our Palomar Mt. ATV repeater from Sybil-W6GIC's QTH. They also picked up some filters from WA6HYQ.

(6-9) Dave-KC6EBY checked on temperature of new building which had been running almost 20 degrees above outside temperature (ie 83deg outside and 104deg inside). A new five day reading indicated an outside high temp of 88.5 and inside high of 91.4. Bill-KB6MCU has constructed two new fan controllers which are temperature sensitive which will be used to maintain a more constant temperature between day and night. At present the fans run 24 hours. He has also constructed another fan/filter for the pressurizing of the building.

Electronic equipment and filters work best in a cooler environment rather than warmer. They also like a more constant temperature to cut down on expansion and contraction.

(6-12) Bill-KB6MCU made some adjustments on the ATV repeater, installed another ventilation fan plus two temperature controllers for the fans. It appears that the 1st new fan is reducing the inside temperature to about 7-9 degrees above ambient. The additional fan should even reduce this further.

John-WB6IQS installed several BNC connectors on some coax to replace an overhead coax line from the tower to the old block building roof so that all heliax and coax is now buried below ground level. John also checked the SWR on the Packet antenna and found it to be very good but the SWR into the filters was 2 to 1 so he adjusted the filters to 145.05 and a significant improvement was made as reported by Larry-WA6UTQ who uses the 05 pkt quite a bit.

The new line was snaked into a buried tube by 1st timers Skip-KD6RFQ and Charles-KD6FQS. They were supervised by Skip's wife, Angelika, and his son, Nickolas. They also received a "tour of the site" by Stan-W9FQN. The snake was provided by Mike-KC6VHI along with

some other useful goodies for the tower.

Stan ran the replacement coax up to a 4-bay antenna, replaced a 2.4GHz borrowed dish with a new dish, and sealed all connections with "stickum" and tape (2-layers). He was assisted on the ground by David-KC6YSO (who ably helps with everything), Skip and Charles.

(6-15) Bill-KB6MCU returned to the site to make adjustments to a ATV filter. He also noted that the maximum inside temperature (89.1) was only 6.5 degrees above the maximum outside temp (82.6) so it appears as though the fans Bill installed over the past few weeks (plus the white roof) are making a difference in the peak inside temperature.

(6-18) Bob-WA6QQQ went to the site with Steve-K6PD, president of the 220 Club, and Del-N6JZE. They replaced the "pass" cavity filter on the 224.9 220-Club repeater with a new unit and the borrowed filter was returned to KC6UQH who returned it to Conrad-N6UKO. It was reported that the new filter solved all interference problems. While on the mountain members of the 220 Club of SD discussed suggestions made to them by PARC to improve their repeater and to reduce the space being using by them (they take up 4-repeater spaces).

(6-19) Bill-KB6MCU replaced a receiver in the ATV repeater.

~~~~~  
- NEWS -
~~~~~

Contributions should arrive by the 20th.

KELLY SEALS-KD6IBP and KENNY SEALS graduated from San Dieguito High School June 17th. Kelly has accepted an appointment to be a Cadet at the U.S. Coast Guard and will be leaving for Connetcticut on July 11th. Kenny will be attending Cal Poly next Fall and received his Eagal Scout award June 11th. KEN-KA5Q is the proud dad. =SK=

SCOTTIE HASKILL, KH6TL, not only passed his advanced license

test but also his extra class.

BOB-KE6VX has announced that the Tuesday evening MARA Emergency Service net at 8:15pm has been changed to Sunday evening at 8:30pm effective July 1st. All net controls should note this change on their net control sheets where nets are announced. =SK=

JOE-KC6QXU just received notice in the March QST that he received 1st place in 10x10 phone-SSB contest. Joe has received since 1991 three 6-land firsts, one second, one second World Wide, and one 7th World Wide. =SK=

De ARRL Letter June94 ..space shuttle mission STS-65 is on schedule for July 8 launch with Mission Specialist Donald Thomas, KC5FVF in charge of SAREX activity. This will be a 14-day mission. Astronaut Rober Cabana awaits his amateur license.

As on all SAREX missions, the crew will use separate receive and transmit frequencies. Please do not transmit on the shuttle's downlink frequencies.

Voice downlink(worldwide):145.55MHz  
Voice uplink: 144.91,144.93,144.95,  
144.97 and 144.99MHz  
Voice uplink(Europe):144.7, 144.75,  
144.8MHz.

Packet downlink: ..... 145.55MHz  
Packet uplink : ..... 144.49MHz

On SEPTEMBER 3rd the PALOMAR FIRE DEPARTMENT will be holding their annual LABOR DAY BARBEQUE at the fire house for the benefit of the fire department. We hope that many of our club members will support this event. The food is great and it helps support the fire department which is important to PARC. Why not gather up the family and some of your amateur radio buddies and we can all meet up on Palomar Mt. for the Barbeque. Afterwards we could arrange a tour of the repeater site. Be sure to wear your PARC hat and name tag ..and carry a couple of HT's on your belt! =SK=

JOHN-KD6PZE and group provided communications for the Fallbrook

Guacamole Grande event on April 24th and they used Art-WA6IPD's 146.175 Fallbrook repeater. He thoughtfully provided each member of the group with a 4-page handout with information and maps of the event. Those participating were: Joel-KE6FHS, Pat-KD6PZB, Paul-KD6JXY, Shawn-KE6BGF, Jack-W6MMO, Nash-W6HCD, Mike-KD6RFS, Chris-KD6GFK, Gary-KC6MLM, and Don-N6TRS.

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Fallbrook, California

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trying to use the autopatch he forgot how to use the codes which is probably natural during emergencies. Your editor has a little card (turned over) on the dash of the car with the codes printed on it for easy access during emergencies. He also has on the card the phone numbers of friends and additional emergency numbers. When John got "shuffled around" by the 911 people he did remember to hit the "A" button so that the time-out timer was updated with another 2-minutes (the "A" button will not be needed for 911 calls after July 31st). Remember, if you don't use the patch enough for mundane calls you probably won't be able to use it during emergencies ..so practice using the patch on all of the repeaters. =SK=

Frank Forrester, KI6YG, (Challenger JrHs) visited the ARRL booth at the International Education Association Conference held March 22-23 in Kansas City for science educators.

Vern-W6EPW. Your \$149.99 check to the PARC's ATV fund (because of the ENSENADA trip which was cancelled) has been cashed although the bank credited PARC's ATV account for \$1,499.90. Evidently the check went through because of the numbers at the bottom of the check! PARC thanks you for your generosity. (04-1-95) =SK=

The PALOMAR Mtn. VOLUNTEER FIRE DEPARTMENT (JIM-KC6PAS is a member) dedicated their new Fire Station on May 28th and Community Center. This might be an excellent location for future Field Days and for the annual Club Picnic. PARC will be investigating these possibilities for the future. There is room for all sorts of antennas and the VHF/UHF possibilities are almost unlimited to San Diego and the LA area. =SK=

It looks as if the EAST GRADE BRIDGE has been started on highway S-7 and it should be done in late August allowing residents and visitors an alternate way off of

JOHN-KE6CDH was in a car accident 5-18 and reports that in



## 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

Palomar mountain with a spectacular desending view of lake Hodges. =SK= ELLEN-N6UW! has submitted a phonetic alphabet taken from a SD Sheriff's office training sheet. Add these to ROD-AC6V's lists published in the May SCOPE:

Adam	John	Sam
Boy	King	Tom
Charles	Lincoln	Unit
David	Mary	Victor
Edward	Nora	William
Frank	Ocean	X-Ray
George	Paul	Yellow
Henry	Queen	Zebra
Ida	Robert	=SK=

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.

The new edition of the ARRL Repeater Directory will be on the market at HRO by the time you read this. PARC wonders if all of the changes submitted have been put into this edition. Your editor has the responsibility of seeing that all changes are submitted but past history indicates that the changes submitted don't always get published. The new Directory has 20,000+ listings of FM repeaters, packet systems, and propagation beacons. (they did forget one change -Ed) =SK=

The American Digital Radio Society has acquire the RTTY Digital Journal, and will retain Dale Sinner, W6IW0, (Fallbrook) as the editor. You can get a free copy of the newsletter at ADRS, Box 2465, New York NY 10185 or BBS 212-698-2102. (de ARRL) =SK=

## SCOPE

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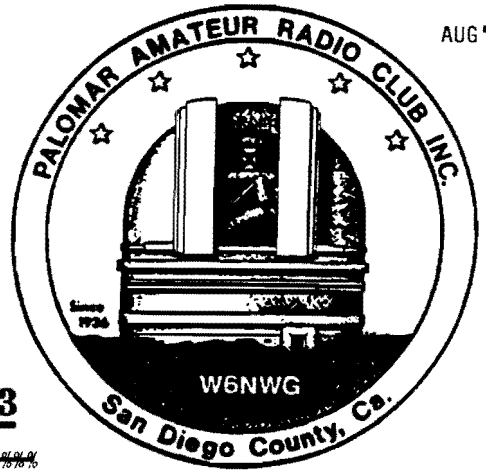
VOLUME XX NUMBER XX

# Scope

W6NWG

## Palomar Amateur Radio Club Inc.

### Post Office Box 73, Vista, California 92085-0073



AUGUST \*\*\*\*\* 1994 \*\* 58 YEARS OLD

Volume XX, Number 08

Published monthly by PARC

an ARRL Special Service Club

Membership \$12including \$3for SCOPE

outside SDC.\$4,Coffee7pm,Mtg.7:30pm

Carlsbad Safety Center(CSC),Palomar

Airport Rd.to N.on Camino Real(S11)

east on Faraday .25 mi,left to CSC,

ThomasBro.Pg.14F6. Talk-in 146.730.

Editor:Stan-W9FQN 30311 Circle R Ln

Valley Center, CA 92082-4806

749-0276, 11:30am or 9:45pm

\*\*\*\*\* E L M E R S \*\*\*\*\* (call for info)

CARDIFF, . Duane-WB6R,753-4821

CARLSBAD, . Ron-KM6MW, 436-6908

CHULA VISTA, Steve-N6RUV,422-4415

ESCONDIDO PresHarry-WA6Y00,743-4212

La MESA, . Roger-N6UUW,697-6025

LAKE SIDE, . Mac-WB6GXR,561-2211

RAMONA, . Vern-AA6UU,789-3070

SAN DIEGO, . Dennis-N6KI,271-6079

SAN MARCO\$ . Ralph-KC6WAN,727-7415

VISTA, . . . Jack-KI6JM,598-0420

SAN MARCOS, Rusty-AA6OM,747-5872

Prospective amateurs ONLY can call

1-800-32-NEW-HAM @ the ARRL Hdq

8am-5pm ET M-F for Ham Info.

\*\*\*\*\* I N S I D E \*\*\*\*\*

Pg. 2 Board, Last Mtg, ..... 2Ad

Pg. 3 Pres.QRM,KB6MCU pict, HRO Ad

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Pg.11 Thanks, News, ..... 2Ad

Pg.12 Application, News, ..... 2Ad

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

Aug 1 Mon BEGINNING of NEW CLUB YR.

\*\*\*\*\* Dues \$12/\$21 family, UR Last SCOPE? \*\*\*\*\*

Aug 3 Wed. PALOMAR ARC CLUB MEETING

Aug 5 Fri.TASMA Mtg.LongB YachtClub

Aug 7 Sun.Workparty repeater site\*\*

Aug 8 Anniversary of 16T 80'TwrBase

Aug11 Thu. PARC 7pm Board Meeting

Aug13 Sat.PARC VE Tests Carlsbad SC

Aug26 Fri.Deadline 4 SCOPE articles

Aug26-28 SW DIV CONVENTION SanDiego

Aug29 Tue. SCOPE into mail at Vista

Sep 3 Sat.Pal.Mt.Fire Dept BARBEQUE

Sep11 Sun.Workparty repeater site\*\*

Sep18 Sun.PARC PICNIC LAKE HODGES\*\*

with Harry Hodges \*\*\*\*\*

\*\*\*\*\* OPEN REPEATERS / CLOSED AUTOPATCHES \*\*\*\*\*

PARC PALOMAR MT.REPEATERS(W6NWG):

PARC W6NWG trustee: Ron-WI6B

Auto Patches-4: 146.73-, 147.075+\*

147.13+\*, 449.425+\*

PACKET: 145.05s; RTTY: 146.700

SIMPLEX: 145.350s,145.520s,446.000s

ATV: 1241.25T(out) / 919.25R(in),

ATV Intercom 146.43s PL 79.7Hz.

COVERING 2000 SQ-MI OF SDCo.

OTHER:224.38-\*KK6KD; 224.9-\*WD6HFR

146.175+\*WA6IPD;\*=A11 107.2Hz

\*\*\*\*\* NEXT MEETING \*\*\*\*\*

VP Art McBride-KC6UQH has an-

nounced that the August club meet-

ing will be by John-KD6CDH &amp; Rod-

AC6V with practical info on how to

get started on Packet: cables,

connections, computer vs dumb

terminal &amp; how to get fired up.

(S)HOW &amp; (T)ELL: See Art-

KC6UQH B4 meeting to reserve time.

\*\*\*\*\* S W D I V C O N V E N T I O N \*\*\*\*\*

The ARRL Southwest Division

convention is in San Diego this

year on August 26, 27, and 28th at

the Town &amp; Country Convention

Center. We hope that all Palomar

Amateur Radio Club members will be

attending and that they will urge

their non-PARC club member friends

to also attend.

If you are a relative new ham,

you will want to see many of the

old and new aspects of amateur

radio. If you are an older ham,

there have been great advances in

many areas. So ..U-all come! One

and all!

\*\*\*\*\* \$ \$ P R I Z E S \$ \$ \*\*\*\*\*

SANDARC (a council of SDCo

Clubs of which PARC is a member)

will have \$1000's of dollars of

prizes: TS-50, Yaesu 840, ICOM HT,

US tower, etc. and more if we have

enough pre-registrations. The

hourly prizes are too numerous to

mention but try to imagine being

the owner of:

Hygain TH3MK4 3el tribander \$369;

2m/440 mobile ant \$50; dualband MBL

ant \$28; 12vdc pwr center \$39; Nuts

&amp; Volts sub \$34; AA6EE ARRL aids

\$22; Ramsey kits \$100; LCR meter

\$119; 2-dualband ant \$190; 13-hats

\$110; 2-T-shirts \$24; Smart Bat

Charger \$80; RTTY sub \$20; radio

holder \$25; ant balun kit \$124;

Charles Simmons 6-asstd items \$250;

SGC ant tuner \$600; HRO (D)iscount

(o)n (p)urchase (Dop) ???; I.C.

Engineering Dop ???; ICOM 35% Dop;

Palomar Engrs Dop ???; Radio Engrs

Cont.pg.6)

**BOARD MEMBERS present:**

President : Harry Hodges, WA6Y00  
 VPPresident: Art Mc Bride, KC6UQH  
 Sec(temp) : Jack Hanthorn-KI6JM  
 Treasurer : Jennifer Thieme, KM6WG  
 SCOPE/etc : Stan Rohrer, W9FQN  
 Membership : Ralph Powell, KC6WAN  
 Board Member: Rick Zimmermann, KC6LV  
 absent W6HCD, WB6IQS, & AB6QT

- also present -

OTHERS: Sybil-W6GIC-ATV, John-KE6CDH,  
 Erik-KE6CLM

Club members are invited to attend Board meetings to observe the Board of Directors in action ..or non-action ..and receive one activity pt. for attending. GREAT BROWNIES, HARRY! (Time 7pm-10pm)

- HOURS -

DISCUSSED: EquipBal \$2022, Gen \$548, PrePd \$5592, PO \$140, SEE FINANCE page 9; programs; 20' trailer donation; post office; SWDivConv; autopatch control dropping; work parties; membership 809; PARC classes end.

APPROVED: buying membership cards; \$700 lightning equip; \$150 fans etc; sell boat-trailer; wrk party Aug 7th; John-KE6CDH picnic chairman; TASMA owner-coordination-trustee letters; buy rope for members; KI6JM to take minutes;

The following motions by W9FQN were approved:

1) The following INCOME(s) are to be used to finance CAPITAL items at the repeater site and Field Day: SCOPE ad money, equipment sales, goodies table, rental monies, sales of electronic items (10% rule).

2) Dues monies, ARRL subscription profits, rope sales, etc are to be used for the general operation of the club, ie: SCOPE, operational supplies, Post Office, supplies, supplies FD, supplies repeater site, FD food, fuses, picnic expenses, battery water, electric bills, insurance, etc.

3) All general purpose funds, if any, are to be moved to the equipment fund on July 31st and that the picnic prizes be paid from the equipment fund.

4) W9FQN given permission to move a

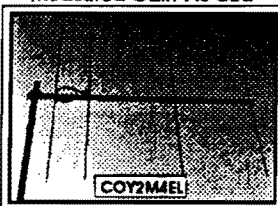
HW-101 xcvr to RACES station in Carlsbad.

5) 5th motion not voted upon.

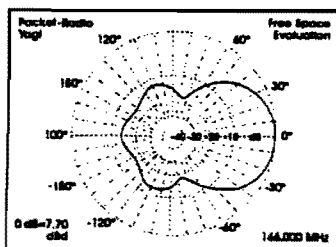
Swiech  
 communication  
 systems

## Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd



H-Plane beamwidth 60 deg  
 Bandwidth 144.5-147.5 MHz  
 SWR < 1.7 at Band Edge  
 Impedance 50 ohm  
 Silver Plated Teflon SO-239  
 Maximum Power 500 Watts  
 Chemfilm Treatment On Brackets  
 Balanced Matching System  
 Two Part RTV Potting  
 Black Delrin Insulators



(619) 748-2286  
 Gene Swiech, WB9COY

Please contact one of the board members for more info or see the secretary for written minutes.

NEWSLETTER HELPERS JUL. SCOPE:

KI6JM, Jack Hanthorn, Folding, Refresh  
 W6TFB, . Lloyd Hunt, . Folding  
 KC6WAN, Ralph Powell, Printing, Labels  
 KB6YHZ, . Art Nye, . Folding  
 WA6UTQ, . Larry Ruegseger, Folding

WA6Y00, . Harry Hodges, . Staples  
 KB6YHY, . Anita Nye, . Labels  
 N6WQR, Bernice Rosenberg, Labels  
 W9FQN, Stan Rohrer, Editor, PO Forms

The Fold-Staple-Multilate-The-SCOPE-group meets at Jack-KI6JM's QTH in Vista at 12:30pm & finishes abt 2pm. WE CAN ALWAYS USE MORE HELP. FSMTS is Tues of the week B4 club's 1st Wed club meeting. Receive 1 activity pt 4 participating in fun & games. Jokes told R "out of this world!"

### LAST MEETING

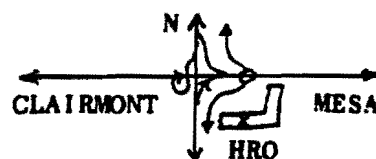
In attendance were 98 members, 11 guests, for a total attendance of 109. PLEASE COME EARLY and help set up chairs.

Many thanks to Nash Williams, W6HCD, PARC's club Secretary, for the excellent program on Solar Cells and associated equipment. The club has a solar panel but has not used it at the repeater site because a) our batteries require 3.2A "trickle charge", and b) the site is surrounded by tall trees meaning that sunlight is limited at our location. We have decided not to tower mount the panel because it would increase the tower "wind loading" and it provides only 1.6A of charging when we really need a little over 3A of trickle charge. "Little Joe's" 1.kw AC generator at the site can be used in emergencies.

SHOW & TELL featured Bill-KB6MCU with yet another repeater that he built on 70cm and xyz.

ART-KB6YHZ supervised the coffee with BECKY-KE6BUE and Gerry Jones supervising the drink and goodie table with members bringing goodies: N6TCB, KM6PY, W6GIC, N6WQR, K6YKG, N6ELP, KM6MW, KE6CDH, N6ISC, KD6BUE, KD6YJB, N6QQF, & WB6GXR.

The goodies were great & U were rewarded with "1" participation ticket.



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Monday thru Saturday

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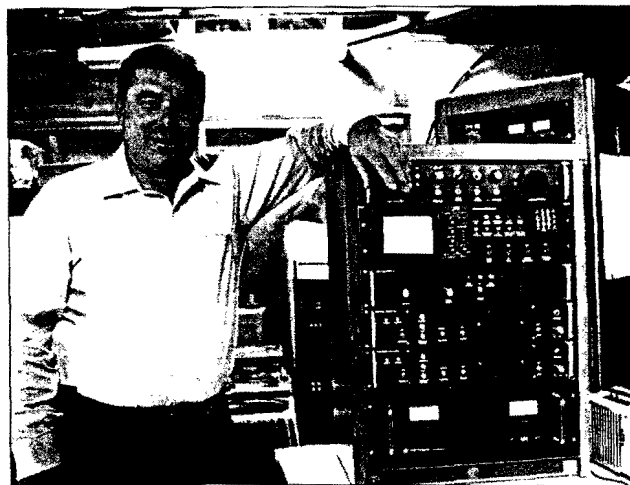
**Southern California ATV repeater:** In January, the Palomar ARC board of directors approved a proposal by Gene Swiech, WB9COY, of Poway; Sybil Albright, W6GIC, and Bill Smith, KB6MCU, of San Diego (shown); and Michael Collis, WA6SVT, of Crestline, to commit to developing an amateur television (ATV) repeater on Palomar Mountain in San Diego County. Bill built the repeater in Sybil's workshop and it was demonstrated at the club's March meeting.

The call sign is W6NWG, and its main input is on 919.25 MHz with the output on 1241.25 MHz. Intercom talkback is provided on 146.43 MHz, and there are plans for a 2.4-GHz FM ATV input.

Phase 2 of the project will provide additional receivers at a remote site, making it possible to link northward to additional repeaters in the Amateur Television Network. Additional inputs will allow San Diego County emergency agencies, such as AIR-EVAC, to use their existing 70-cm ATV transmitters to access the repeater, and to retransmit NASA space shuttle video.

Phase 3 will include a portable ATV station with two built-in wireless microphone receivers and multiple camera inputs to televise club functions and on-site disaster coverage, and for educational Amateur Radio demonstrations at schools, air shows and other special events.

—Sybil Albright, W6GIC, San Diego, California



RICK ROESSLER

WA6Y00  
PRESIDENTIAL QRM

The other day I had the pleasure of addressing the "Senior Anglers" club of Escondido. A group more devoted to the art of fishing

you are not likely to find. My topic was of course, Amateur Radio. I shared the speaker's platform with Al Fahnestock, N6GNB. He discussed VHF/UHF while I talked about HF and DXing.

Prior to my presentation, I

had the good fortune to run across an article in "World Radio" wherein a Ham compares our hobby with that of the dedicated angler. He pointed out that there were more "likes" than "unlikes" and that the self discipline is required if one is to

become successful at either.

I know that I am "preaching to the choir" but there are a few on the air activities that only the practice of self discipline will correct. See if any of the following are familiar and whether you need to change:

"Kerchunking" the repeater to see if it is "up" without identifying.

Responding to a "jammer" rather than ignoring him.

Using inappropriate or profane words over the air. Remember, youngsters may be listening in.

Not pausing between transmissions to allow others to break in if they need to use the machine.

Being long winded (I'm probably as guilty of that as anyone).

Using an autopatch to avoid a long distance call, e.g. using your rig to call home when you are parked ten feet from your office door.

Well, there's half dozen for you to cogitate over. Each of you could add another half dozen I am sure. Hope to hear you on one of our repeaters.

Just a reminder - ARRL SW Div Convention - August 26-28 - See you there.

73, Harry WA6Y00.

MEMBERSHIP KC6WAN

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

WE ARE GOING TO MAKE IT EASIER FOR OLD MEMBERS TO RENEW BY MAIL. NO SPECIAL FORM. JUST A CHECK PLUS YOUR CALL SIGN. Of course if you have moved or have a new telephone number, write that down. a new address on preprinted checks WITH NO NOTE is not adequate. we do not check addresses on the check against the database.

We usually loose between 60-

120 members on August 1st with about half of those having moved and the REST JUST FORGOT TO RENEW.

PLEASE CHECK YOUR ADDRESS LABEL TO SEE WHEN YOUR MEMBERSHIP NEEDS TO BE RENEWED. IF IT READS 9407, THEN THIS IS YOUR LAST SCOPE AND YOU WILL NEED TO RENEW IMMEDIATELY to keep your membership current and to have access to the club's autopatches.

THANKS TO ALL OF YOU WHO ARE RENEWING OR SIGNING UP FOR MORE THAN ONE YEAR. WITH OVER 4,000 BLANKS TO FILL IN THE COMPUTER AT THE END OF THE CLUB YEAR ON JULY 31ST, IT CAN REDUCE MY WORK LOAD BY HALF (on the average). Some club members are signed up until 2004!

The club hit an all time high of 809 members in the middle of July!

(new)/(RENEWED):

4YRS= KE6BH-BILL

3yrs= WT7W-BERRY WA6QB0-DICK  
wa6yuw-Art kc6ixn-Jack N6HLY-CARL  
WA6MUW-ART

2yrs= KD6MTL-ALAN WB6JVS-HARRY  
KD6GEJ-JIM K06BT-DUANE kc6qht-Jean  
kd6qma-Tim ke6hib-Bob ke6hib-Bob  
ko6bt-Duane kc6qht-Jean kd6qma-Tim  
kc6wzi-Dale Louis-DiFazio W6MK-  
MILTON KK6DD-FORREST KY6P-BOB  
N6NAU-TED W6TFB-LLOYD WA6ESG-ED  
N6PRC-HENRY DAVID-HENDERSON

1yr= WB6TBA-BOB W6HLB-JOE  
KD6LRA-VAN K6PUN-DOUG KD6FKM-JOHN  
N6KVO-MARVIN K6UL-MITCH KD6GLF-  
JAMES WB6TWY-ROY K7NA-VINCE N6DUR-  
BOB WD6FZX-RAY? N6MYN-DICK W6TET-  
IVAN N7AMR-ALLLEN WB6AKM-HOWARD  
KD6RSN-HERB W6SKI-KEN K6PP-GENE  
WA6HYC-WATT N6ICH-TOM KD6JPP-DAVE  
WB6TPA-BOB N6HLY-CARL KD6MTL-ALAN  
W6HOB-JOE WA6MUW-ART K7WLX-ROB  
KD6LRA-VAN KE6BH-COUNTRYMAN K6PUN-  
GORDON KD6FKM-JOHN KD6TVL-ADRIAN  
KC6VDX-JOHNSON KD6VLB-BROOKING  
WB6IQS-JOHN KK6CA-MILLER WB6PKK-  
MUNSTER W6TDC-MILLER N6FYJ-BILL  
WA6MHZ-BUNSOLD KA6TNI-TONY KC6YOZ-  
BENNETT WB6NBU-BOB N6WQR-BERNICE  
KC9LV-RICK KC6YSO-DAVID KC6YSP-DOAN  
KA6OLZ-STEPHENS KB6NMK-JOE KD6YSB-  
MARVIN GERALDINE-JONES W6LCT-SEAMAN  
N6QVW-ORLANDO KM6PN-STAN W6LCT-

LARRY W6JLU-DON KD6FKN-MAT KE6IX-  
JOHN W6GHD-DICK N6CKQ-LOUIS WA6HQM-  
DAVID N6RBS-KEN KA6GRG-CHARLES  
KD6KQJ-CONRAD N6OPP-BILL W6EPW-VERN  
KC6TAN-PETTIT N6WEF-FRANK N6WEG-  
MARYLEE N5HTC-CHAS N5NLV-CHARLOTTE  
k6q1-Dave kd6fqs-Chuck Ngoc-Dinh  
Dennis-Markham kd6cyh-Ron ke6fhs-  
Joel ke6hze-John ke6gsh-Jay ke6hzf-  
Dennis ke6hzc-Susan wh6cms-Brian  
ve6rgp-Ron wa6gpw-Nick kc7cif-  
Leland ke6ezz-Joe kd6do-Gene  
wb6hvp-Mike W60BM-KARL KA5ECR-JOHN  
KD6VND-BILL WB6WGT-HARLAND NC6J-BOB  
KB6NRL-FRED ND6W-LOU K6HLU-GENE  
NU6L-JOE K7DCG-DENNIS KB7YLF-MARK  
wb6hvp-Mike kd6do-Gene

CHANGES: none

73, Ralph 727-7415

END OF YEAR

PLEASE RENEW NOW! SINGLE  
MEMBERSHIP IS STILL \$12 AND FAMILY  
\$21 (12+9).

YOUR LAST NEWSLETTER IS SENT  
OUT JULY 26 FOR THOSE WITH LABELS  
9407 AND YOU WILL NEED TO RENEW  
BEFORE AUGUST 15TH TO CONTINUE  
BEING A MEMBER OF PARC. YOUR  
NEWSLETTER (SCOPE) AND PHONE PATCH  
PRIVILEGES END AFTER YOUR LABEL  
DATE OF 9407.

IF YOUR LABEL READS AFTER  
9407, YOU ARE SAFE UNTIL YOUR  
MEMBERSHIP EXPIRES.

- A G O G O -

(8-89)(5yr) ..Annual club  
picnic at Dixon Lake in Escondido  
..had an all YL station at June FD  
..Mary-KB6NZA passed her Advanced  
..Orlando won volunteer of the Year  
Award from the Mira Mesa Town  
Council ..Dick-W60ML moved to Sun  
City ..No-code License debate.

(8-84)(10yr) ..NOTE: 8-8-84  
Stan-W9FQN, assisted by Juan  
Gonzalez, installed & poured the  
16T cement base for the club's 70'  
(now 80') tower on Palomar Mt.  
Cement was donated by John-WB6MEI  
along with the rebar needed.

WB6IQS REPEATERS W9FQN

We plan on removing the 147.13 repeater in early August for modifications that need to be made: change the audio, add a different controller, reduce 3rd harmonic radiation, and add a BEEPER to indicate emergency 12vdc power. There will be an emergency repeater to replace the .13 and it may or may not have autopatch connections. If it does not have autopatch connections, then members will have to use the other three repeaters. We suggest using 147.075 and 449.425.

There have been no modifications to this repeater by PARC since PARC obtained it last year. =SK=

(7-5) AC power was lost for several hours during the early evening hours shutting down 147.075 and 147.130. As soon as we can pull them off the mountain, they will be modified to automatically switch over to 12vdc when they loose AC power. The other repeaters and the packet have already been modified. When each of the above repeaters are modified this summer, we will add a BEEP every 5-10 seconds on the repeater to advise users that the repeater actually IS ON EMERGENCY power. Several of our controllers will come up with a "P" when they come back onto AC power and will continue with the "P" until reset by a control OP even though the repeater is presently operating on AC power ..and not on 12vdc. At present the "P" means that the repeater is now on emergency power or HAS BEEN on emergency 12vdc power sometime in the past. =SK=

WB6FMT AUTOPATCHES W9FQN

During the May time period there were 224 calls made by patch #1, 73 calls by patch #2, and 58 calls by patch #3 for a total of 354 calls. Most autopatches are

done from Friday evening to Sunday evening. =SK=

The new autopatch boards were installed in July and everything is working as good or better than in the past.

XXXXXXXXXXXXXXXXXXXXXXX

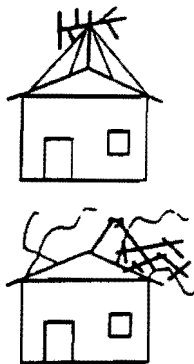
## Printed Circuit Board Design

*J.T. (Tim) Low*  
N6ZUC

Phone or Fax @ (619) 735-9125

2946 Amanecer Place  
Escondido, CA 92027

XXXXXXXXXXXXXXXXXXXXXXX



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  
542-1405  
**Antenna Specialties**

The major changes that most members will notice are:

1)TOUCH TONES are SUPRESSED (you can't hear the TT's) except for the first digit of the access code, the first digit of the 7-digit phone number, and the "#"

when clearing the patch. Suppression of these tones is excellent on .73, .075, and .425 while .13 still has the modified audio circuit in it from when we obtained the repeater. We hope to work on the .13 repeater sometime soon to correct a few of these annoying minor problems.

2)There is now a busy signal that is put out by the autopatch system ON Palomar Mountain when the patch is being used by one of the other three repeaters (the autopatch is switched between 4-repeaters). Since very few members try to use the patch at the same time, we suspect that most club members will never hear the PMT. "busy signal" which has a sound distinctive from the local telephone line busy signal. Wait a few minutes and dial again or check the other repeaters to see where the patch is being used ..and call right after the patch is completed.

3)911 CALLS NOW do not need an update since 911 calls now disconnect the timers on Palomar Mountain. 911 does not disconnect the Section timers (VSTA, MMSA, LMSA) but those timers are RESET every time you make a transmission ..or kerchunk ..so if you are put on hold for any length of time, just kerchunk the repeater and it will reset the Section timers so you can "talk forever" during your emergency.

Club members will find that the autopatch system functions as it has in the past with the exception of the above mentioned changes. YOU ACCESS AND OPERATE THE PATCHES EXACTLY IN THE SAME WAY AS YOU HAVE DONE IN THE PAST! NO CHANGES that you will observe for the present.

The other modifications that have been made allow the club to control and to expand the autopatch system on PMT. and some of these new things will be announced in the SCOPE as they are implemented.

At first glance it appears as though Jerry did a lot of work for

so few apparent changes. The first basic autopatch circuit has been followed closely and the changes that were made were to improve user operation and reliability, to provide easier and more varied control operator functions which members will not always see, and to provide for computer control of output and input. =SK=

It has been suggested that we put a "BEEP" or "TONE" on the repeater when your signal is below a certain signal strength for autopatches ..at least below autopatch quality. This way you would be warned before attempting a patch that your signal is marginal or of questionable autopatch quality. =SK=

The prefix 625 has been added to area section #2 along with 624, & 637. Are there any others that need to be added? =SK=

Cont.de.pg1  
Techntn Dop ???; NTR-1 DSP \$170; Kenwood TH-27A HT \$400; Bearcat Radio Club items \$84; ARRL badge & lic plate frame \$15; Solder It kit \$103; 2m Mobil ant \$43; T-1000 ant tuner \$150; books \$24; 100ft coax \$25; Amateur Radio School certs \$360; & books \$200.

If you don't come, then UR Ed and family have a greater chance of winning!

#### - EXHIBITOR BOOTHS -

Visit the exhibitor's hall and see:

AA6EE Callbook Distributor, A&E Engineering, Advanced Computer Controls, Alinco, Amateur Radio Communications, Amateur Radio School, American Digital Radio Society, Amidon Associates, ANLI antennas, Arizona Airwaves, ARRL 6th Dist QSL Bureau, ARTSCI Inc, Atlas Radio, B&B Instruments, Battery Tech, Bearcat Radio Club, CDS, Entaur Electronics, Charles Simmons, Com Focus Corp, Comer Comm, Comet Ant dist by NCGCO, Commsystems Intermountain, CQ Magazine, Cushcraft, Diamond Ant, Force 12 (Buy USA Inc), GAP Antenna Products, Gordon West Radio Sch,

Hal Comm, Hamtown, Hats for Hams, High Sierra Ant, HRO, Hustler Ant, I.C. Eng, Index Publishing, I.T.C. Inst, ICOM America, JPS Comm, Jun's Elect, Kantronics / RF Concepts, Kenwood, Link Comm, Maha Comm, Motron Elect, Nuts & Volts Mag, Optoelectronics Inc, Palomar Engineers, R. Meyers Comm, Radio Bookstore, Radio Control Systems, Radio Eng, Radio Shack, R&J Fial (badges), R.F. Parts, Ramsey Elect, RT Systems, Smiley Ant, Solder-It-Co, Starfire Tec, Startek, Swiech Ant, The Ham Contact, Timewave Tech, Tucker Elect, U.S. Tower Corp, Cindy Wall (author), Wil-Power Bat Dist, Wireman, Worldradio Mag, Yaesu, Falcon Comm, O'Brien Assoc (QSL's), Steve Douglas, Telex Comm, and others.

Just think. You can wander and wonder around the exhibit hall and see the latest equipment and have the distributors answer questions that only you could think of! Meet the famous ..and near famous. Touch everything that doesn't move ..and some that does.

#### - FORUMS / TECH -

And then there are the FORUMS! Stimulating discussions and lectures on current amateur radio topics. Your editor wishes that he could attend them all but even with my "split personality" I am doomed to failure! I might "see you at the forum":

FREE VEC LICENSE EXAMS ON SAT, ARRL, ARES, RACES, EVAC(ATV), YOUTH/ED., DX, MICROWAVE, PACKET, TRI-SERVICE MARS, GPS & AUTOMATIC ANTENNA TUNERS, MOUNTAINTOPPING, ELECTRONIC TROUBLESHOOTING, SATELLITES AND SHUTTLE COMMUNICATIONS, ANTENNA DESIGN & CONSTRUCTION, VHF/UHF SPECTRUM MANAGEMENT, AMATEUR TELEVISION, PUBLIC SERVICE, DUAL DIVERSITY RECEPTION, PUBLIC SERVICE, DUAL DIVERSITY RECEPTION, USING BBS'S, RFI, EMI, T-HUNTING, AUCTION, FLEA MARKET, TESLA COILS, EARTHQUAKES, FACTS ABOUT WIRE & CABLE, TIPS FOR NEW HAMS, AMATEUR RADIO IN THE HOSPITAL, THE SUN & AMATEUR RADIO,

A MOBILE CONTEST TRUCK, AND MORE.

Then there is a 6-hour EMI to consumer-electronics equip course @ \$10. Contact Sybil-W6GIC 278-4284 to sign up.

#### - GET TOGETHERS -

Friday night there is the evening Harbor Cruise with Bar and Dinner. There is a Saturday Night Banquet with STEVE ROBERTS, N4RVE, and his Computerized Touring Bicycle as the main speaker. Steve is a member of PARC and his talk about his experiences peddling around the USA should prove to be most interesting and exciting! Also on Saturday is the Ladies Luncheon for Hams and non-Hams. Then there is the Sunday DX Breakfast. And don't forget the famous WOUFF HONG induction ceremony at midnight. And there are T-Hunts (transmitter hunting) on foot and by vehicle.

#### - HELP NEEDED -

Eleanor-N6QJE, an experienced exhibitor, and Stan-W9FQN will again have charge of the exhibitors booth in the GREAT HALL where we will be administering to the exhibitors needs both in the hall and at the exhibitors private room.

If you can only come down to help out, we can get you a pass into the GREAT HALL and you probably can see some of the displays as you are walking around ..helping and answering questions. The only qualification needed is having time available to help out. Husband and wife teams work out nicely. We need all or parts of the following time slots covered:

FRIDAY	.. 8a->12	Set Up
	12->8p	Exhibits open
SATURDAY	.. 9a->1p	Exhibits open
	1p->5p	Exhibits open
SUNDAY	.. 9a->12	Exhibits open
	12->3p	Take down

We do not physically help with "set up" or "take down."

This is your opportunity to assist SANDARC in putting on the best SWDiv Convention ever and you can do it with your presence and help. SEE YOU THERE!





\*\*\*\*\*  
F O R E S A I L \*\*\*\*\*  
\*\*\*\*\*

Anchors away!

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=

**NOTE #1:** EQUIP ADVERTISED BY JACK-WOODLW(SK) IN LAST TWO SCOPE's IS ON HOLD. POSSIBLY WILL BE AVAILABLE SOMETIME IN THE FUTURE: Stan W9FQN 749 0276 VC.

**NOTE #2:** The person wanting CARRIER SHEETS for an electrostatic copier should contact W9FQN: Stan 749 0276 V.C.

**NOTE #3:** PARC is selling their maritime fleet! Rough water cruiser with trailer, winch, wench, lights, ores, etc. See to appreciate. Bring lifesaver(s): Stan W9FQN 749 0276 V.C.

(08-21) TPL 2m amp 10w in 200w out 12vdc SSB/FM with remote plug ex condx \$170: John KD6TLF 747 9431 Esc.

(08-19) ICOM 47H 45w mobile \$100: Tim NM7V 753 3567 Encinitas.

(7-6) Kenwood TS-130S, PS30, AT130 & desk mike w/stand gud condx: Dee N6ELP 753 5647 Encinitas.

(7-6) new 486-SX-25 computer 2MB Ram 256 Cache both 1.2 & 1.44 floppy dr 250MB HD 101 keyboard 3-but mouse/pad 15" .28NI SVGA 1024x768 monitor mini twr 200w pwr supply 1MB video card MSDos & Windows \$800: Ray KK6CA 728 3179.

(7-6) large selection tubes, sockets pwr supplies, xfmr's, xtals, spkrs, hardware, coils, pots, etc. All priced to move: Lee W6TDC 724 7460 Vista.

(7-5) IBM XT Computer & TNC Gud shape \$125; AEA IsoLoop 10-30m near new \$200; can demo both: Tim N6ZUC 735 9125 Esc (THIS IS RACES ESCONDIDO EQUIPMENT). Also packet 145.07 ESN N6ZUC.

(7-5) 15AH 12v VASA sealed batteries \$5ea: John Sharp 740 5107.

(6-21) ICOM AC bat.chg BC-30

\$25 0B0; Bencher Iambic paddle \$40 0B0; MFJ deluxe elect keyer MFJ-407B \$40 0B0; Motorola speaker \$5: Curtis N6XXU 727 9254 Vista (wonder what 0B0 means -Ed).

(6-14) Working Garant Windom "balun" 80-40-20-10m cost arm & leg new sell to ant Xperimenter w/o ant wire for \$20: Russ WB6IOV 436 6714 Carlsbad.

(6-13) Yaesu FT-890AT w/CW filt \$975; Yaesu FT-530 dualband HT + 800MHz \$350, Deluxe remote headphones MH-29 \$75, FNB-26 HT battery \$50, charger NC-28B \$20, & charger NC-18B \$20; Astron RS-35M 12v DC pwr supply \$130: Abe KC6UQA 432 8222 Escondido.

(06-02) HyGain V-2R collinear 2m vert \$30; AEA Isopole 2-m vert \$30: Duane AA6EE 789 3684 Ramona.

(05-27) XT-5.25FD, HD, monochrome monitor, keyboard, misc softPware \$125/orB0; OKI DATA Microline 92 printer w/man. \$50; Okidata ML92 Microline printer w/man ex cond \$50: Jennifer KM6WG 599 1134 Vista.

(5-12) PK-232MBX packet data controller (#49679) ex con swbox man 1991 not used 4 1.5yrs \$200: Joe N6RVO 433 6885 Ocsd.

(4-16) 40' twr climable \$100; Heath dual-trace scope 25Mhz w/2 10:1 probes used <5hrs \$250: Ted WA6BEJ 944 0639 Leucadia.

(4-5) Commodore C-64 printer new in box \$75; Eltro voice mic \$25; new FT-5200 0B0, will take 2m only w/large readout; Yaesu FL-2100B 10-80m linear w/spare 572's will demo \$600: Larry W7HKI 439 5855 Ocsd.

(03-06) Standard Communications SIA15 Speed Impeller, 11,000 pulses per nautical mile. See W9FQN (with the yellow box) at meetings to view the instructions.

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

(02-07) IC-24 2m/70cm HT w/PL encode/decode module, charger, 1.2Ahr Periphex ragchewers battery, standard .3mah bat, all ex cond \$400/offer or trade HF xcvr HW-101, ant tuner, KW linear etc: Mike Hamann WB6CSH POBox 2831, Fort Bragg, CA 95437.

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(6-20) C-64 + Packrat best offer; 286 comp + mono + 1M HD \$200; Robot Slow Scan w/camera \$50: Ron AA7GL 549 4207 SD.

(6-?) Cushcraft A3 tribander beam with HD-73 rotor gd condx partly disassembled \$140: Peter KG6JA 591 4400 San Marcos.

(01-06) ICOM 229H xcvr 50w mobile + ant never used \$330: Tito KD6SYE 575 5342 ImpBeach.

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

"Where art thou?"

PARC IS LOOKING FOR THE FOLLOWING ITEMS (old?) FOR THE REPEATER SITE: large & small hammer, axe, small wood saw, crowbar, small scissors, & old garden hoses. We always seem to need these items when we don't bring them to the site.

(6-10) Hard disk drive for Zenith laptop ZWL-184-97 and manual for ZWL-0200-02: Mike AB6QT 742 1573 P.Mt.

(5-19) Looking for donation or sell cheaply a PK-88 TNC to RACES ESC: Tim N6ZUC 35 9125 Esc (THIS IS RACES ESCONDIDO)

(04-05) HF xcvr 12v-110ac for IOTA(expo) possible early ATLAS-210-215 for IOTA-(expo) 12v-110v; 930 Kenwood & access CPI-MBATEXT for Commodore 64 (RHY); electronic keyer/paddle; Kenwood older mobile 2m 2400 50w? or other: Larry W7HKI 439 5855 0csd.

(03-14) Schematic for URN-25F SigGen: Dennis N6KI 271 6079 SD.

\*\*\*\*\* V E T E S T I N G \*\*\*\*\*

N.Co.FCC LICENSE EXAMS given by the PARC VE Team @ Carlsbad Safety Ctr, Carlsbad (Camino Real to Faraday, 14F6, follow CSC signs East) on 2nd Sat. @ 10am. Reservations less than 2da in advance & walk-ins not normally accepted. VE info: call 465-Exam or Rusty at 747-5872.

610 FORMS AVAILABLE: HRO, 5375 Kearney Villa Rd. or at club meetings from KB6NMK or W9FQN. An SASE sent to your editor will also get you a 610 form.

JUL 9th TESTING:

TECH->EXTRA: Mike Breau.

NONE-TECH: Pete Bierle & Chris Thompson.

EL2 PASS: Lynette Foltz & Steve Prough.

TEST TEAM: WA6HYC, KB5MU, KI6JM, AA6OM, N6ZUC, W6YYV, &

KE6VX.

JUL 11th SPECIAL NIGHT TESTING: NONE->TECH: Constance Bierle, Dirk Flint, Diana Smittle, Warren Donnelly, & Margos Miranda.

EL3B PASS: Gerald Clements Sr. TEST TEAM: WA6Y00, AA6OM, & WB6R.

73, Rusty-AA6OM

\*\*\*\*\* 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 Jack-WB6AXW) I have been a ham radio operator for over 36yrs ..Tuesday, June 28, was one of the greatest days in my years as a ham ..I have always been a fan of 6m AM a long time ago ..now 6m SSB. About 8am ..I turned on my old TS-600 to the calling freq of 50.125MHz. The sound coming from my speaker was like 40m on Field Day ..the KD7's, KE7's, KO's, K5's and Cuba (CM3ZD) ..the band went from 50.110 to 50.2 ..each 5 or 10KC had a QSO on it.

I got my log and pen to write down all I could work ..40 contacts later I stopped calling CQ.

The best news was still to come. At about 19:47GMT it was time to turn on the 2m SSB rig, an old TR-9130 all mode. I set it on 144.2 upper sideband. Within 2min I contacted N7DB at 19:50 on 144.200. He had a 5-3 sig with QSB ..then at 19:58 I worked W7INX ..the two were in grid sq CN-85. I also heard NOXX/7 in CN-84 at 20:02GMT ..all on 2m SSB.

Within 2hrs my QSL cards were on the way in the U.S.Mail.

This summer keep your 6m and 2m radios on (and check the above frequencies -Ed). =SK=

(TO SYBIL-W6GIC) Here's what I did with the information you gave me on Palomar ARC's new ATV repeater (see SCOPE photo). It will be in UP FRONT in QST in August. Please share it with Bill Smith, KB6MCU, and anyone else who might be interested.

I really enjoyed meeting you, and thanks again for your help with

the video course. -de Mark Wilson, AA2Z, Editor, QST. (This is the 2nd W6NWG photo in QST's UP FRONT this year! -Ed) =SK=

(de Vern-W6EPW) ..while on subject of checks I noticed that the July issue of SCOPE had a note regarding my check on page 11. This note prompted a very interesting chain of events. After reading the note I contacted the bank ..according to CA state banking laws I am entitled to double the amount of the kited check. Since my check was kited from \$149.99 to an amazing \$1,499.90. They are therefore sending me a check for \$2449.80 (\$2599.80-149.99). This is a welcome windfall and I am immediately buying life membership in all local clubs. (you forgot SASE (\$.29) for patch info!) =SK=

\*\*\*\*\* E D I T O R \*\*\*\*\*



Thanks to all of you who send in info for the newsletter early in the month. Early items have more of a chance to "make it" into the SCOPE since the SCOPE is almost in its final form by my deadline each month ..and your item might have to wait until the next issue.

Some items are very interesting but will be just as interesting later on when I have more space so I type them up immediately and "save" them in the computer until the "right" time. Items are selected on the basis of "timely", "general interest", and "importance." Unfortunately, ur editor is the sole judge of these items except when receiving direction from the PARC Board.

I would like to publish items of interest to club members and to keep them informed about club activities. Your help in this matter would be greatly appreciated. Your present editor (along with past editors) often wonder really how much of the SCOPE is read by our membership.

# FINANCE

W9FQN

PREPAID DUES is money collected for the 1994-95 club year (Aug 1st->Jul 31st). Remember, this is being written in July '94. Most of the money is not available for club use until August 1st 1994 and then because some dues are paid up until 2004, that money from August '95 until August 2004 is available only in succeeding one year increments in each following year. RULE: we can only spend what has been paid in the year in which we are operating. We cannot spend future years dues until they are available.

The General Fund (\$550) probably has enough in it to finish out the club year but it might be close. The Equipment Fund balance (\$2022 -\$700 worth of lightning protection being ordered) is probably enough to finish out our summer projects which includes more grounding projects and the ordering of several "black boxes" ..and then it will grow during the winter months at the rate of approximately \$230/mo when there is usually not as much activity.

PARC has always tried to conduct its financial matters in a business like manner which accounts for the fact that our club owns a repeater site property, 11 repeater systems, autopatch facilities, 4.5 trailers, 8+ crankup towers, and assorted "junk" which your editor would like to see some of it moved from his garage and property. You probably cannot name one other club in the world with the resources that PARC has at its finger tips ..all done on dues of \$12 per year and with generous donations from club members. And of course you cannot ignore the donation of time and effort by many of our club members (especially the technical committee, club officers and our newly formed ATV group) who have made PARC what it is today. Yes, we probably do have faults from time

to time but our successes far outnumber our failures and omissions.

## PRACTICAL SPANISH

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## REGISTERED U.S. PATENT ATTORNEY

723-0620

Loyal M. Hanson - W9WV  
Fallbrook, California

PARC is probably one of the biggest "non-repeater associations" in the world which functions as a full service club. We also are the only CLUB in the San Diego area which has significantly increased its membership during the past five years. Most SD clubs are lucky to have the same number of members that they had five years ago although many have decreased in

membership. PARC is over 2.5 times larger in 1994 than it was five years ago so we must be doing something correctly ..or we are fooling a lot of folks a lot of the time.

In the SDCo area we seem to have: a)Full Service Clubs, b)Clubs, c)Repeater Associations, and d)High priced Groups (large & small) run mainly by private individuals with all sorts of repeater goodies and where the members have little to say about their operation.

PARC is not a rich club even though financial reports attribute fairly large sums of money from time to time to us. It needs to be remembered that some of our members have seen fit to pay their dues up to the year 2004 and this money is only available to the club on a one year basis with the start of each new year. PARC has always tried to show financial responsibility to our club members in the way it has conducted its business. PARC members get more for their dollar with PARC than any other CLUB "in town."

At this time the club has not seen fit to increase dues since we have been able to take care of all club expenses and needs with our present dues structure. We want to make the club attractive to those who do not have the money for the more expensive clubs and associations that require \$65 to \$100+ membership dues plus initiation fees. Despite PARC's lack of "big" income dues, PARC owns its own repeater site (we know of no other club or group that owns its own site), three trailers, 80' tower, eight crankup towers, seven repeaters, the only Amateur TV station broadcasting to 2,000 square miles of SDCo, the equivalent of four to twelve autopatch systems (depending upon how you look at it), thousands of dollars of coax/heliox, three buildings, 3,200 Ahr of emergency batteries, etc. What club do you know that charges \$12 a year dues can match PARC?

The club newsletter, the

SCOPE, costs the club \$5.64/yr/member (does not take into account advertising income) and insurance for the club and its members is around \$1.50/yr/member. The rest of this money is available for club activities: Field Day, Picnic, supplies, telephones (5), San Diego Gas & Electric, etc. At the end of the club year any surplus money is moved to the equipment fund account.

At present, money for the Equipment Fund comes from 1) year end General Fund surplus (if any), 2) donations, 3) equipment sales, 4) rentals, 5) SCOPE advertising, 6) goodie table, etc. which means that the equipment fund has money coming in on a regular basis throughout the year while the operating fund plunges towards zero at the end of the club year. Note that the Equipment Fund is not supported by your club dues except for any surplus money in the General Fund at the end of the year which is transferred as surplus to the Equipment Fund.

In general our Equipment Fund takes care of the repeater site capital items and Field Day capital or hardware items and the General Fund (your dues) takes care of the normal day to day operation of the club: SCOPE, postage, phone lines, supplies, picnic, brochures, etc.

At the end of the club year any surplus money from the General Fund is placed into the Equipment Fund. There will probably be no surplus this year ..in fact there might be a small deficit which would have to be made up by the Equipment Fund. The club's biggest expenditure this past year has been towards the ATV project and then PARC contributed less than 20% of that amount so far.

Contrary to what some club members might think, PARC does not have "surplus" monies and there are no plans to raise the \$12/year club dues (+\$9 family). If you like spending \$65-150/year, you will have to join another group. =SK=

## WORK PARTIES W9FQN

REPEATER SITE WORK PARTIES, IF HELD, ARE USUALLY SCHEDULED THE SUNDAY FOLLOWING THE CLUB MEETING ..and as needed. We meet at MOTHER'S KITCHEN on PMT at 10:30am. Please bring 5-10gal of water with you for our "little seedlings."

NEXT WORK PARTY IS AUGUST 14TH: grounding, tower work, heli-fax runs, painting, site work, security work, brushing, etc. Contact W9FQN for additional info.

SEE PAGE 7, SALE-WANTED, for items we need donated to the site.

(6-24) JOEY-NU6L, PARC's Chief Electrician, broke up the SDG&E circuit into a master 100A circuit breaker feeding two 50A breakers. One 50A leg for the old block building and the other leg for the new (freezer) building. He was assisted by STAN-W9FQN who was a "third hand" for drilling and holding of breaker boxes. After Joey left, Stan labeled all of the repeaters with their frequency, function, and the name and call of the Tech having responsibility for that repeater. He also watered all of the little trees which PARC is encouraging to grow plus four that were transplanted a month ago.

(6-30) The "Racket" Radio was reported off the air and Mountain MIKE-AB6QT, after work, discovered that the AC switching power supply had failed. The AC power was still inside the cabinet so the unit did not switch over to 12vdc. Mike removed that AC supply and took it home for "bench work" and left the packet machine on 12vdc power.

(7-1) DAVE-KD6EBY, while on a battery inspection, noted the temperatures in the new building were only 5 degrees above ambient. Now we need to work on making the inside temperatures at least 5 degrees below ambient. Any ideas?

(7-2) JERRY-WB6FMT installed the next phase of the autopatch system (see AUTOPATCH) and after a few minor problems the new system

was up and running. Since everything is modular plug-in the old system is being saved for emergencies. When everything was completed it was discovered that the 147.075 repeater failed to connect up to the system so it is out of service until the problem is found.

STAN-W9FQN provided an extra hand during the autopatch testing, watered the little trees, and moved the 55gal barrel of water from the new building roof to the roof of the generator shed where the barrel is easier to fill with 1-gal jugs of water.

GEORGE-KK6KD of the 220 AMERICUS UNITED group came up to find out why their signal was poor and discovered a relay had stuck in the "off" position. The problem was fixed and their signal was back up to normal. George was accompanied by his son and by friends.

MIKE-AB6QT visited the site for an hour and found 10A blown fuse in the DC line of the Packet repeater cause of the blown fuse has apparently been traced to a fuse holder with a high resistance causing the 5A load to heat up the fuse holder thru contact resistance to the point where the fuse link gives way giving us a blown fuse. He will keep checking to see if this is the problem. Very strange problem but one that has happened before with other equipment.

(7-10) JOHN-WB6IQS helped the (A)mericas (U)nited group, 224.380 work on their amplifier problem and also talked to Jerry-WB6FMT about what needed to be done to get the autopatch re-connected to the 147.075 repeater. Task accomplished. All autopatches are now connected to the new system placed on the hill 7-2. (see AUTOPATCH page 6). John also spent quite a bit of time this past week working over an "answering machine" used in one of our club projects.

GEORGE-KK6KD added a ground to the 224.380 'A.U.' repeater and was assisted by other members of his

group: Dennis-KE6HZF, Sue, Daniel-KD6DKM, Alfredo-KD6TYX & Ricardo. After George returned home he discovered that his repeater pre-amp was not working properly ..so another trip to the mountain sometime soon.

DAVID-KC6YSO installed additional backup alarms in all three buildings and helped where needed. I appreciate your help, David.

STAN-W9FQN put stakes in by all of the seedling trees that we are trying to encourage growing, painted part of the shingle roof of the old block building with silver paint along with the entire roof of the new building in an attempt to reduce the temperature in the repeater buildings. Dennis and Sue helped with the watering of the seedlings. Stan also cut down several trees across from the block building that were a fire hazzard.

There were 800 members in the club in June and despite an announcement of the work party in the SCOPE and at the club meeting, only three club members showed up to work on PARC projects. Needless to say, there were lots of projects on our list not started and none completed. Sort of reminds me of ALICE IN WONDERLAND: "You have to run twice as fast just to stay where you are."

Thanks to:

Dennis-N6KI for showing your editor how to take the back seat out of KA6FPS's car so that radio cables can be installed. =SK=

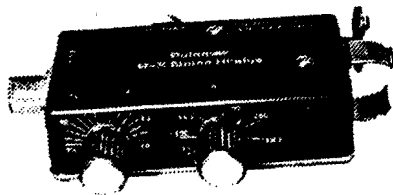
Ted-KD6AKT for giving advice to an OTer who was running his access code and telephone numbers together. =SK=

Frank Craig-WJ6U for the \$10 donation towards the selling of Jack White-W6SMP's SK estate. =SK=

Maxine Cole and family for the donation of \$50 to the club in memory of Tom Cole, K6EPS. They sent along a special thanks to Dennis-N6KI, Harry-WA6Y00, and

Frank-KI6YG for their unselfish help. A decision has yet to be made on the use of the donation. =SK=

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Phone: (619) 747-3343

Mark-N6NNI for introducing Dexter-KE6FXM to PARC.

Wilma White, wife of deceased W6SMP for a \$50 donation to the club for helping dispose of his ham gear. Frank Craig also helped PARC.

NOTE: PARC helps with the disposal of deceased hams radio equipment and makes to charge for doing so although many families are

so pleased with the job done by PARC that they make a contribution to the club. In most cases, the small items and small parts are GIVEN to the club to sell directly and the club keeps this small change.

DAVE-KC6NE for the donation of a new small oscilloscope for use at the repeater site but since it is French made we will have to figure out what all the controls mean. Dave operates WIRELESS WORLD in Laguna Niguel where he sells-trades on consignment vintage radios and newer used radios. He has a large selection of mint Collins gear. =SK=

MILT-W6MK for copies (many issues) of the W5YI report ..which keeps your editor up to date and are used in the SCOPE from time to time. DENNIS-N6KI is also good about sending informative articals to your editor. =SK=

LARRY-WA6UTQ for packet information. =SK=

MARK-KD6WQK for the 5-pin DIN plug and chord. =SK=

## - NEWS -

Contributions should arrive by the 20th of the month.

On SEPTEMBER 3rd the PALOMAR FIRE DEPARTMENT (JIM-KC6PAS is a member) will be holding their annual LABOR DAY BARBEQUE at the new Fire Station (dedicated May 28th) for the benefit of the fire department. We hope that many of our club members will support this event. The food is great and it helps support the fire department which is important to PARC. Why not gather up the family and some of your amateur radio buddies and we can all meet up on Palomar Mt. for the Barbeque. Afterwards we could arrange a tour of the repeater site. Be sure to wear your PARC hat and name tag ..and carry a couple of HT's on your belt! (This location might make a good Field Day site sometime -Ed) =SK=

There was a band opening on

# 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

2mFM to Hawaii around 7-11 with many club members working other amateurs 2,000 miles away. Many times these band openings are height specific. One Hawaiian amateur during openings drives up the side of a mountain until he hears the signal clearly ..and the same technique can be applied here in San Diego. Ask John-KD6CDH about his experiences with 2mFM ducting and the frequencies used.

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.

Tropospheric ducting many times occurs at about the 1,000 foot level and besides listening for other amateur stations and repeaters on 2m you might try listening to some of the distant weather stations on 162.400 and 162.550 ..if the local wx stations are not to strong. =SK=

If you were a member of a FD group this year, your editor would appreciate your sending him information about the total number of contacts, contacts on each band in each mode (CW/SSB), number participating with names and calls, classification, etc for publication in the SCOPE. =SK=

Barbara-KA6FPS reports that there is a 60 second window as you pass Christianitos road on I-5 while passing thru San Clemente where you can make a quick call on all of our repeaters. Several times she has pulled off on the off ramp and run autopatches from that location. =SK=

## SCOPE

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- Pg. 5 Repeater, Autopatches .. 2Ad
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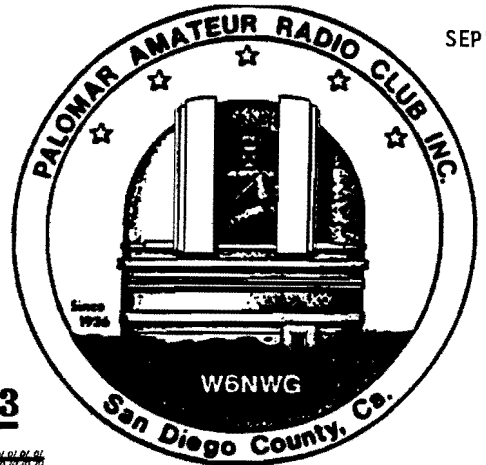
Vista	Mira Mesa	La Mesa	Fallbrook	Membership Expires	License Expires
Palomar Mountain				PRC yy mm	LX yy mm

# Scope

W6NWX

**Palomar Amateur Radio Club Inc.**

**Post Office Box 73, Vista, California 92085-0073**



SEPTEMBER \*\*\*\* 1994 \*\* 58 YEARS OLD

Volume XX, Number 09

Published monthly by PARC  
an ARRL Special Service Club

Membership \$12including \$3for SCOPE  
outside SDC.\$4,Coffee7pm,Mtg.7:30pm  
Carlsbad Safety Center(CSC),Palomar  
Airport Rd.to N.on Camino Real(S11)  
east on Faraday .25 mi,left to CSC,  
ThomasBro.Pg.14F6. Talk-in 146.730.  
Editor:Stan-W9FQN 30311 Circle R Ln  
Valley Center, CA 92082-4806  
749-0276, 11:30am or 9:45pm

\*\*\*\*\*

\*\*\* E L M E R S \*\*\* (call for info)

CARDIFF, . Duane-WB6R,753-4821  
CARLSBAD, . Ron-KM6MW, 436-6908  
CHULA VISTA, Steve-N6RUV,422-4415  
ESCONDIDO PresHarry-WA6Y00,743-4212  
La MESA, . Roger-N6UWU,697-6025  
LAKESIDE, . Mac-WB6GXR,561-2211  
RAMONA, . Vern-AA6UU,789-3070  
SAN DIEGO, . Dennis-N6KI,271-6079  
\$AN MARCO\$. Ralph-KC6WAN,727-7415  
VISTA, . . . Jack-KI6JM,598-0420  
SAN MARCOS, Rusty-AA6OM,747-5872

Prospective amateurs ONLY can call  
1-800-32-NEW-HAM @ the ARRL Hdq  
8am-5pm ET M-F for Ham Info.

\*\*\*\*\*

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\*\*\*\*\*

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Pg. 9 911, ARRL FM Repeaters, . 1Ad  
Pg.10 Thanks, .....  
Pg.11 2-Meter Nets, Work Parties1Ad  
Pg.12 Application, .....

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

Sep 3 Sat.Pal.Mt.Fire Dept BARBECUE  
Sep 5 Fri.TASMA Mtg.LongB YACHT  
CLUB

Sep 7 Wed. PALOMAR ARC CLUB MEETING

Sep10 Sat.PARC VE Tests Carlsbad SC

Sep11 Sun.WORKPARTY REPEATER SITE\*\*

Sep15 Thu. PARC 7pm Board Meeting

Sep18 Sun.PARC PICNIC DIXON LAKE \*\*

Sep23 Fri.Deadline 4 SCOPE articles

Sep27 Tue. SCOPE into mail at Vista

Oct 2,3rd Annual SD Round-Up M.Park

\*\*\*\*\*

OPEN REPEATERS / CLOSED AUTOPATCHES

\*\*\*\*\*

PARC PALOMAR MT.REPEATERS(W6NWX):

PARC W6NWX trustee: Ron-WI6B

Auto Patches-4: 146.73-, 147.075+\*

147.13+\*, 449.425-\*

PACKET: 145.05s; RTTY: 146.700

SIMPLEX: 145.350s,145.520s,446.000s

ATV: 1241.25T(out) / 919.25R(in),

ATV Intercom 146.43s PL 79.7Hz.

COVERING 2000 SQ-MI OF SDco.

OTHER:224.38-\*KK6KD; 224.9-\*WD6HFR

146.175+\*WA6IPD;\*=A11 107.2Hz

\*\*\*\*\*

NEXT MEETING KC6UQH

\*\*\*\*\*

VP Art McBride-KC6UQH has announced that the September club meeting will be by John-KE6CDH and Rod-AC6V who will continue on the last segment of their Packet demonstration and talk.

(S)HOW & (T)ELL: See Art-KC6UQH B4 meeting to reserve time.

\*\*\*\*\* - HUMOR ? - \*\*\*\*\*

AT&T VIRUS: Every three minutes it tells you what great service you are getting.

MCI VIRUS: Every three minutes it reminds you that your're paying too much for the AT&T virus.

TEXAS VIRUS: Makes sure that it's bigger than any other file.

\*\*\*\*\*  
PMT. FIRE Dept. BARBECUE  
\*\*\*\*\*

September 3rd the PALOMAR FIRE DEPARTMENT will be holding their annual Labor Day Barbecue at the new fire station at the top of Palomar Mt. Drive to the top, turn right 100 yards and you will see the new building. There will be lots of good food and probably music.

PFD is important to PARC and we need to be known to the Palomar Mountain Community as supporters of PFD. We hope that many of our members will attend this worthwhile cause. Be sure to wear your PARC badge and your HT(s) with LONG antennas for maximum exposure (public that is). (It would be nice if we could set up a table and provide "free" messages at the event -Ed.)

\*\*\*\*\*

P I C N I C KE6CDH

\*\*\*\*\*

PARC's annual picnic will again be at Dixon Lake on the north edge of Escondido on September 18th near the entrance to the park, Poppy 1, 2, 3, & 4. Take I-15 going north out of Escondido, east on El Norte Parkway (exit) several mile, north on La Honda, enter park (\$1/car), 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 and just walk into the first park area where all the antennas are. The inside parking lots fill up early. Sometimes by 9:30am so come early. (Seniors sometimes pay less.)

Cont.pg.8



**BOARD MEETING (voting):**

President : Harry Hodges, WA6Y00  
 VP-president: Art Mc Bride, KC6UQH  
 Secretary : Nash Williams, W6HCD  
 Sec(temp) : Jack Hanthorn, KI6JM  
 Treasurer : Jennifer Thieme, KM6WG  
 RTechnical : John Kuivinen, WB6IQS  
 SCOPE/etc : Stan Rohrer, W9FQN  
 Membership : Ralph Powell, KC6WAN  
 Board Member: Mike Doyle, AB6QT  
 Board Member: Rick Zimmermann, KC6LV  
 (non-voting)

OTHERS: Sybil-W6GIC-ATV, Mike-KD6VHI,  
 Training/FD/ATV: Bill Smith, KB6MCU  
 Constitution: Jack Hanthorn-KI6JM  
 BBS: John-KE6CDH, Gail-KM6WF, Marvin-  
 WB6PKK, & Ken-N6ALA.

Club members are invited to attend Board meetings to observe the Board of Directors in action ..or non-action ..and receive one activity pt. for attending. GREAT BROWNIES, HARRY! (Time 7pm-9pm)

**- SECONDS -**

**DISCUSSED:** EquipBa1 \$1154, Gen \$.22, PrePd \$7921, PO \$125, ATV \$25; donated vault?; donated trailer from Boy Scouts; picnic; ATV; donated Xerox machine (NW); autopatch move; Taylor's new move; programs; Americas United 224.38; non-payment of rental and SCOPE ads; earthquake detector on 146.73; WQ6V airmast trailer to be broken up with airmast returned to PARC.

**APPROVED:** 3-controllers \$270; picnic \$75 ham + 250 prizes; BBS project start; next work party Sept 11th;

Please contact one of the board members for more info or see the secretary for written minutes.

**NEWSLETTER HELPERS AUG. SCOPE:**

KI6JM, Jack Hanthorn, Folding, Refresh  
 W6TFB, . Lloyd Hunt, . Folding  
 N6TCB, . Jerry Carter, Pasting  
 KC6WAN, Ralph Powell, Printing, Labels  
 KB6YHZ, . Art Nye, . Folding  
 WA6Y00, . Harry Hodges, . Staples  
 KB6YHY, . Anita Nye, . Labels  
 W9FQN, Stan Rohrer, Editor, PO Forms

At the SCOPE Folding & Stapling (SFS), Lloyd-W6TFB announced that he had just been married to a long time friend of the family. Congratulations Lloyd!

The SFS group meets at Jack-KI6JM's QTH in Vista at 12:30pm & finishes abt 2pm. WE CAN ALWAYS USE MORE HELP. SFS is Tues of the week B4 club's 1st Wed club meeting. Receive 1 activity pt 4 participating in fun & games. Jokes told R "out of this world!"

XXXXXXXXXXXXXXXXXXXX

## Printed Circuit Board Design

**J.T. (Tim) Low**  
**N6ZUC**

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**2946 Amanecer Place**  
**Escondido, CA 92027**

XXXXXXXXXXXXXXXXXXXX



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**LAST MEETING**

In attendance were 112 members, 11 guests, for a total attendance of 130. PLEASE COME EARLY and help set up chairs.

Many thanks to John-KD6CDH (and others) for Part I of getting started in Packet. More this coming month.

SHOW & TELL featured Bill-KB6MCU with yet another repeater that he built on 70cm.

ART-KB6YHZ supervised the coffee with BECKY-KE6BUE and Gerry Jones supervising the drink and goodie table with members bringing goodies:

The goodies were great & U were rewarded with "1" participation ticket.

PARC MAIL KC6WAN

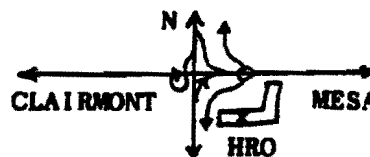
Occasionally a member's check gets way-laid several weeks when mailed to an officer's home or to the Editor. The following is how the PARC mail works ..most mail to Box 73 is picked up not less often than twice a week by me, the membership chairman. The treasurer also has a key to the post office box and picks up certain other mail (bank statements & bills for example.)

The membership chairman (KC6WAN) opens the mail, posts the members' accounts in the computer and deposits the checks. Checks received from others, advertisers for example, are also deposited by me.

Mail for an officer which is obviously personal is handed to him/her at the first opportunity (this could take 2-3 weeks -Ed). Any members' checks the officer or Editor has received at their home QTH are exchanged at the same time. You'll get the best, timely response for personal mail by mailing it to the individual's home QTH and the quickest recognition of your payment of dues by mailing such checks to Box 73.

CHECKS and MEMBERSHIP items go to Box 73 ..not the Editor.

PERSONAL communications go to the officer's home QTH unless you can stand a 2-3 week delay in the officer receiving the letter.



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**PRESIDENTIAL QRM WA6Y00**

August was a very busy month for Hams. First we had the 40th Annual Air Show at the Naval Air Station, Miramar. Amateur Radio Operators were out in force, operating ARES, RACES, packet, and portable stations. Some operators put in over twenty-four hours over the long weekend in spite of the heat and humidity. On Saturday alone, Hams helped reunite over 125 lost children with their distraught families. Well done!

Although this might have been the last air show to be held at Miramar, the ARRL Southwestern Division Convention will not be the last ham convention in San Diego. Held at the San Diego's Town and Country Hotel and Convention Center in Fashion/Mission Valley, hundreds of Hams from far and wide converged on the convention to ooh and ah at the latest equipment, enjoy a dinner cruise on the bay, attend numerous technical and educational forums, applaud presenters at the

banquet and DX breakfast, WIN many, many prizes, and leave the scene vowing to attend many, many more!

Now in September we have our own annual picnic. To be held at Lake Dixon on Sunday, September 18th. This is always a fun affair for all the family. Lots of food, room for the kids to run, and great prizes. The weather should be just perfect. Plan now to attend. John, KE6CDH has volunteered to chair this event so if he asks for volunteers to lend a hand, be sure to step forward.

On Sunday, October 2nd the Club will participate in the Third Annual Ham Radio Roundup in Missile Park, Missile Road and Clairemont Mesa Blvd. We will feature Amateur Radio Television (ATV) and will also support Challenger Junior High School with whom we have a Partnership in Education agreement. Gates open at 7:00am for setup and the activity begins at 10:00am for the public. Mark your calendars band be sure to attend. Sign in at our display and get a drawing ticket for next year's picnic.

Finally, don't forget to bring in an unused sweater or sweatshirt as a contribution to "Sweater Saturday", October 1, 1994. All items will help the elderly, the needy, children, families in crisis, manage to stay warm this winter. Please go through your closets and chests, bring what you can to the September 7th club meeting. This project is jointly sponsored by SDG&E, Vons, KGTV Channel 10, and KSON.

73, Harry WA6Y00.

**MEMBERSHIP 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. =SK=

We usually loose between 60-120 members on August 1st with about half of those having moved and the REST JUST FORGOT TO RENEW.

We ended up the year with a

record 809 members and as of 8-10-94 we have 742 members with several applications being processed. We are estimating a new membership record by July 31st 1995 of over 850. If every club member made an effort to help with obtaining new members by talking to new hams in the San Diego area and then inviting them to join PARC, we could easily be over 950 by July 31st. WITH YOUR HELP WE CAN MAKE 950! PARC is already the biggest CLUB in San Diego County and is just under SANDRA, a repeater organization, which has about 950+ members.

It is not our objective to be the biggest group in San Diego. We only want to be the best at serving the most amateurs. There are about 7,000 amateurs in SDCo and better than 10% of them belong to PARC which is pretty good since there are over 10 other clubs, associations, or groups in the county.

In "talking up" PARC, remember that our strong points are: 1)low dues, 2)five autopatches, 3)four voice repeaters, 4)digital communications, 5)great meetings, 6)friendly club members, 7)nets which serve most ham interests, Emergency preparedness, 9)a new ATV repeater, 10)license testing and test training, etc.

(new)/(RENEWED in CAPS):

6YRS= Scott Belfield-KD6FY

3yrs= BEN-KD6SHS BRIGGS-KD6LQY  
CONAHAY-WB6NUV ALAN-WA3HHC MIKE-WB6HHV

2yrs= C.Reeves Larry-w6sac  
Bill-ke6ilp Jose-kd6iyx Maria-kd6iyi Dan-kd6dkm Pete-Singer BILL-K6MHG DICK-KD6KHU HARVEY-KC6SFM KIRKES-KC6PASfam GRANT-N6RUV STIDD-N6XXV RUGG-W6DVZ PALMER-KE6BJA GOODMAN-KC6TYT LEBROCK-AB6YA JOE-N6RVO MARCHAND-KD6MKC MIRDAS-AB6IU WOODWARD-KC6MWJ CARRY-K6ICG \*TONY-KA6TNI\* TOM-KM6KQ SUSAN-KD6DKA CHARLES-KE6CDJ KEN-N6ALA DOUG-KE6GXQ JOE-K6CV TIM-KD6CNH PARVIZ-KD6BCV GEORGE-KB6AQS ERIC-KB6EPO

1yr= Steve-ke6jgk Tim-ke6jdr  
Paul-wd6brx Curt-ke6knp D.J.Summers  
Larry-ke6gwh Todd-ke6jgj Martin-Picha Lee-Picha Lorie-ke6gsk Mario-

ke6joj Leroy-O'Conner Frank-ke6iqv  
Steve-ke6gxp Allen-n2dca John-ke6joi Tom-ke6hr1 JAKE-N5QLG  
PATCHEL-WA6IWKfam CHUCK-KM6LF TED-WH6MC WILHELMY-WI6BFam ONEIL-N6NWR3  
MARK-WA6DOC WAYNE-W6RWV VOLLMER-KE6CDNfam JOHN-WA6ZJC PHIL-WF6L  
JON-KD6JXM NOBLIT-KC6MLMfam ALLEN-AB6WX CORNELL-W6MMO PAUL-KD6JXLfam  
PUGH-WA6HYB MIKE-AB6QTfam PAUL-WA6IPF BENSON-WA6BEJ DORR-KC6QJR  
STEDMAN-WB6Rfam EARL-W6TXKfam DON-WD6FWE MARK-AA6TR ELEANOR-N6QJE  
PAUL-KD6JXY FRANKLIN-KF6QHfam  
LAROSE-N6OJZ GATES-W4NYU JAMES-KD6REU ROB-WA3IHV RUBEN-KD6CWI  
DICK-W6OML STUTZMAN-N6UZN PHIL-KK6NS KD6WZ TOM-WB8BHE CATHY-KB0FDV  
MIKE-KC6RSF LARRY-W6QCA LEO-N6BA JAY-KC6ZVG MARSH-W6SAX MARNI-KB6PCF  
ART-KC6UQH JOHN-KE6CDH DENNIS-N6KI SCHAAACK-N6FYK BILL-N6COU KC6VDY  
GARY-KK6YB SAL-KK6RX KRIST-W6KTE RAY-N6AMD VIRGINIA-KC6WPF JOE-WA1CSO (we still remember you) JOE-WA6MOS BERG-KG6JA PHIL-AH6CW ED-K6II

73, Ralph 727-7415

~~~~~  
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.

Received a nice note from Paul Stack, WA6IPF, who recently had a serious heart attack. Paul is a writer and author who lives in Vista and has written such books as THE NAIL, LAZARUS' CROSS, THE MILLION DOLLAR HOME RUN, FROM HELL TO PARADISE, BRUSTER THE ROOSTER, THE ADVENTURES OF LITTLE AND BIG WHISKERS, THE AMERICAN MAILBOX, RADIO ANGELS, THE SON OF A CB'ER, THE POOL SHARK, THE FORBIDDEN HAM, SNAKEHOUND, SHANA, and THE SPEAR OF LONGINUS. It is gud hearing you back on 2m again, Paul. =SK=

(de Mario KE6JOJ) ..a new virus, undetected by current virus scanners is making it's way into many computers, specially those of Internet users. ..originally believed to be only on the newsgroup

alt.binaries.pictures.erotica ..it seems someone has effectively migrated the virus to many other

shareware databases on the Internet. Since many bulletin boards receive or download software from the Internet, no one is quite sure just how many thousands of computers worldwide have been infected with the virus.

The "kaos4" virus was originally designed to be a harmless virus. NCSA in Carlisle, PA., reports that kaos4 is a nonresident infector of .COM and .EXE files and increases their length by 697 bytes. ..the virus can be a considerable nuisance because it may prevent booting from the hard disk and may render some infected programs inoperable. The only known method of clean-up is to re-boot from a known clean diskette and to repair or replace the system files and any infected programs. The virus contains the string "KOHNTARK" which is a pseudonym for a virus author who promotes the notion of "good" or harmless viruses. He is also noted for the ability of coding viruses that escape detection from virus scanners. Apparently he failed to accomplish that in this situation. =SK=

~~~~~  
KI6JM - A G O G O - W9FQN
~~~~~  
(9-89)(5yr) ..FD station totals 2,901 contacts ..Fred Young W6UAP SK ..Jack Forbes W6QP SK ..new 2m 1988 DB-264 antenna found to have "open" element ..club roster published.

(9-84)(10yr) ..W9FQN reported repeater tower base poured and looking for a crane to put up the upper sections ..picnic a success due to Emily-WA6ZKC.

(9-69)(25yr) ..ARRL SW DIV convention will be at the Hilton Inn in SD on Oct 17-19 ..picnic was a rousing success with Jack Forbes W6QP winning a Swan trasceiver donated by Swan.

~~~~~  
***** - HUMOR ? - *****
Pse send humor to Ed. He needs it.

ROSS PEROT VIRUS: Activates every component in your system, just before the whole darn thing quits.

WB6IQS REPEATERS W9FQN

We have noticed the 146.73 repeater being keyed up from time to time during the early morning hours in step with the 145.050 packet node at our site on Palomar Mountain. There is also reason to believe that .73 might also be keyed up from a repeater which appears to have an output on 146.125 which is within 5kc of 146.130, the .73 repeater. If you can hear this other repeater on .125 and connect up its transmissions (voice peaks) with the keying of .73 we would appreciate any information that you might be able to give us: frequency, time of day, strength, etc.

On 8-7 the 147.130 repeater was removed from the repeater site for modifications:

- a) addition of emergency DCpwr beep.
- b) correct audio response problems.
- c) prepare for "linking" audio input.
- d) install a secondary alarm system.
- e) reduce 3rd order harmonic output.
- f) add a better PL encode circuit.
- g) adjust autopatch audio levels.
- h) install a new controller.
- i) adjust timeout timer.

Bill-KB6MCU has again done a neat job of construction and has made up a small "emergency" repeater which can be substituted in a few minutes for 147.130, 147.075, or 146.730 simply by switching in the proper crystals. This emergency repeater can also be used at other locations where our repeaters do not presently cover and it can be used to replace our repeaters which are on the air but need modifications down at our "home" work benches.

Members should now be able to activate their PL Decode function on 147.13 since the emergency repeater has a good PL encode being broadcasted and the old repeater will have its PL encode modified to work properly when it is returned to the site.

This emergency repeater will be used to replace the 147.130

repeater while being worked on at Art-KC6UQH's QTH. We hope to have the 147.130 back at the site by the end of September when the emergency repeater will then be used to replace the 147.075 repeater which needs some of the same modifications. =SK=

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The repeaters are presently divided up among the Repeater Techs as follows:

- 145.050 PKT : John-WB6IQS + KB5MU
- 146.700 RTTY : John-WB6IQS
- 146.730 voice: Mike-AB6QT + WB6IQS
- 147.075 voice: Art-KC6UQH

147.130 voice: Art-KC6UQH
Emergency Rptr: Bill-WB6MCU
449.425 voice: Mike-AB6QT + WB6FMT
Autopatch Sys: Jerry-WB6FMT+ W9FQN
(Palomar Mt. + 3 entry points)
METROLINK Sys: John-WB6IQS + KB5MU
ATV Rptr. Sys: Bill-WB6MCU + WA6SVT
Simplex Rptr : Larry-AB6LY

If you have questions about any of the above repeaters, please contact the Tech in charge of the repeater.

WB6FMT AUTOPATCHES W9FQN

Please do not tell those you are talking to on the autopatch that you are talking from your "MOBILE RADIO" but do tell them that you are talking via "AMATEUR RADIO." Mobile radio is vague and could mean commercial radio (cellular telephone). =SK=

The following prefixes have been activated for area #2: 566, & 627. Are there any others that need to be added? =SK=

We are in the process of reprogramming all autopatches to accept prefixes in overlapping areas where there is no toll charge to PARC. This should be completed by September 7th and might account for some autopatches not going thru during the last week or so of August when we had troubles in reprogramming patch #2 in Mira Mesa. =SK=

PARC has made a slight change (*) in "how-you-say-it":

H O W Y O U S A Y I T
(N6YZZ = YOUR CALL)

- 1)*DIAL your 3-digit code
- 2)*N6YZZ MOBILE ACCESS PATCH
- 3) Listen for dial tone
- 4) Dial your 7-digit number
- 5) Complete UR conversation
- 6) When conversation is done say, N6YZZ MOBILE CLEAR PATCH
- 7) THEN touch the "#" button

Give your call AFTER your access code. By the time you give your call you will discover a dial tone when you release your microphone and you will be able to immediately dial your 7-digit number.

Items 6 & 7 cause the most

problems. When you are finished talking, perform #6, then turn off the patch with item 7.

This entire sequence assures PARC of getting your call twice on the PARC tape recorder. Failure to do so can result in loss of autopatch privileges or the blocking of some of the numbers you call most often.

- R U L E S -

(1)Keep calls under 60 sec.
(2)NO CHIT-CHAT just for the sake of talking. (3)NO BUSINESS and remember that it is PARC's definition of business! Not your definition or the FCC's definition. If it SOUNDS like business to a control operator, then it is business by OUR definition. (4)Say your call is VIA HAM RADIO. (5)Use the word "OVER" between transmissions. (6)Use PL107.2Hz for ALL patches even 146.73. (7)Don't give out patch CODES to anyone or mention them over the air. (8)Only members can DIAL codes but you can dial a code for someone that REALLY NEEDS A PATCH and he can dial the seven digits after the dial tone. (9)No calls when near a phone except for practice, testing, or as a demonstration. (10)911 calls have unlimited time but you must make a transmission every 60 seconds to automatically reset the timers. A KERCHUNK will reset the timers. This feature is available only on 911 calls.

The above rules are the ones approved several years ago by the PARC board including the definition of BUSINESS and have been on the PARC autopatch information sheet given to those that request the sheet.

Calling your place of business to say that you are going to be late is an FCC NO NO and a BUSINESS call. You can call your wife and mention you are tied up in traffic and hope she knows that she should call your work phone. If someone at work is possibly going to be placed in danger because you are late, then that call is permitted.

Mentioning that you are stopping by the grocery store is OK

but you should not receive a long list of items to be picked up nor should you walk down each isle and ask your wife what she wants from that isle. Ordering pizza over the autopatch is a "direct" business call by PARC standards while receiving a list of "several items" (1-3 items) from your spouse for you to pick up is indirect business call and permitted ..but don't push it. The autopatch should be available for EMERGENCIES not for things you forgot to think about ahead of time.

PARC members need to remember that the FCC has certain rules and that the FCC GIVES PARC THE OPTION OF APPLYING STRONGER RULES for the use of its repeaters than the FCC rules. The FCC permits the ordering of food over the autopatch BUT PARC AT THIS TIME DOES NOT PERMIT IT ..SO DON'T DO IT!

Recent FCC rulings permit repeater owners (PARC) to set their own standards as to how their repeaters are used and to even restrict the use of their repeaters as to who can use them and who cannot use them.

Most of the 300+/month autopatch calls made on PARC repeaters conform to FCC and PARC's standards and our membership should be congratulated for their proper use of the patches.

The following members have been reported as having problems and were turned in by PARC control operators over the past two months with the last four digits of your home phone listed or the number you called so we don't embarrass you this month:

IMPROPER SEQUENCE: . . 4726 & 2286
MUSIC: (# called) 222-4255
BUSINESS CALL:8752
IMPROPER LANGUAGE:2196
QUESTIONABLE CALL: . . (NL) . . .
UNCLEAR CALL SIGN: . . (NL) . . .
*ordered food de fast food business
(NL)= None Listed

No control operator reported turning off an autopatch during the above period. (We were too late on the music.)

With the exception of IMPROPER

SEQUENCE, please contact W9FQN ASAP for more information on the above problem(s) reported by a control operator(s) and to have your call or number removed from future lists. =SK=

CONTROL OPERATORS have the ability to TURN OFF your autopatch while you are running it and to "kill" the autopatch on that repeater or on all repeaters for any length of time they desire without notice or comment. They can also request that the number being called be placed on a "drop" list so that it cannot be called again ..like music being placed on the phone line. YOU can block out the music so it does not come over the repeater.

~~~~~  
W O R K P A R T I E S W9FQN  
~~~~~

REPEATER SITE WORK PARTIES, IF HELD, ARE USUALLY SCHEDULED THE SUNDAY IMMEDIATELY FOLLOWING THE CLUB MEETING ..and as needed. We meet at MOTHER'S KITCHEN on PMT at 10:30am. Please bring a lunch, drinking water, & 5-10gal of water for our little tree seedlings."

During the winter it is next to impossible to work at the repeater site so much of our major work at the site is done during May thru October each year with few work parties during the winter months. IF YOU ARE GOING TO JOIN US, PLEASE COME UP WITH US SEPTEMBER 11TH, and/or OCTOBER 9th. If the wx holds, we might even go up NOVEMBER 6th. (Ur editor has worked at the 60' level on the tower near Christmas but that is really rare. Usually the icicles are hanging horizontally by that time of the year!).

NEXT WORK PARTY HAS SCHEDULED: underground bunker, battery shed extension, grounding, tower work, heliax runs, painting, site work, repeater modifications, security work, brushing, etc. Contact W9FQN for info: 749-0276.

SEE PAGE 7, SALE-WANTED, for items we need donated to the site.

Cont.pg.11

 FORE SAIL *****

Don't keel over!

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=

NOTE #1: PARC is selling their maritime fleet! Rough water cruiser WITH TRAILER, winch(s), wench(s), 50cal, lights, ores, etc. See to appreciate. Bring lifesaver(s) & ur own amo, cheap!: Stan W9FQN 749 0276 V.C.

NOTE #2: The person wanting CARRIER SHEETS for an electrostatic copier should contact W9FQN: Stan 749 0276 V.C.

(08-16) Bearcat Scanner 210 pro w/mag mt (2m+70cm) \$35: John KD6TLF 747 9431 Esc.

(08-16) SWR & Pwr meter STRUTHERS DIRECTIONAL w/case 2-30MHz 144-470MHz 70-470MHz \$130: Lief KE6BZP 223 4983 SD.

(08-11) Yaesu FT5200 144-440 dual band 3mo old 10hrs cost \$700 need larger readout, exchange for 2400 or other mobile (45-50w) + cash; C-64 computer, 1541DD, printer (great for Packet); will demo Yaesu FL2100B linear 10-80 + WARC 572B's \$400: Larry W7HKI 439 5855 Ocsd.

(08-10) RTTY machine KSR-35 all SS gears de police dept: Allen 739 1405 Esc. (Info thru Walt Huckabay W6JRQ-1916).

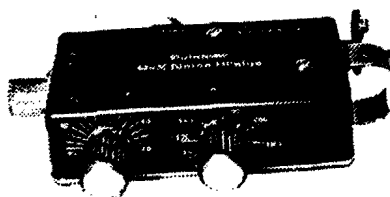
(08-3) ICOM IC-735 xcvr w/CW filter & mic \$600; TenTec Scout xcvr 50w NB mic \$475; Dentron AT-1k ant tuner 1kw \$100; Diamond SX-200 SWR/Wattmeter 1.8-200MHz \$65; Curtis EK-430 Iambic Keyer \$50: Duane AA6EE 789 3674 Ramona.

(08-19) ICOM 47H 45w mobile \$100: Tim NM7V 753 3567 Encinitas.

(7-6) Kenwood TS-130S, PS30, AT130 & desk mike w/stand gud condx: Dee N6ELP 753 5647 Encinitas.

(7-6) large selection tubes, sockets pwr supplies, xfmr's, xtals, spkrs, hardware, coils, pots, etc. All priced to move: Lee W6TDC 724 7460 Vista.

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 92033
 Phone: (619) 747-3343

(7-5) IBM XT Computer & TNC Gud shape \$125: Tim N6ZUC 735 9125 Esc, also packet 145.07 ESN N6ZUC.

(7-5) 15AH 12v VASA sealed batteries \$5ea: John Sharp 740 5107.

(6-21) ICOM AC bat.chg BC-30 \$25 0B0; Bencher Iambic paddle \$40 0B0; MFJ delux elect keyer MFJ-407B \$40 0B0; Motorola speaker \$5: Curtis N6XXU 727 9254 Vista (wonder what 0B0 means -Ed).

(6-20) C-64 + Packrat best offer; 286 comp + mono + 1M HD \$200; Robot Slow Scan w/camera \$50:

Ron AA7GL 549 4207 SD.

(6-?) Cushcraft A3 tribander beam with HD-73 rotor gd condx partly disassembled \$140: Peter KG6JA 591 4400 San Marcos.

(6-14) Working Garant Windom "balun" 80-40-20-10m cost arm & leg new sell to ant Xperimenter w/o ant wire for \$20: Russ WB6IOV 436 6714 Carlsbad.

(6-13) Yaesu FT-890AT w/CW filt \$975; Yaesu FT-530 dualband HT + 800MHz \$350, Delux remote headphones MH-29 \$75, FNB-26 HT battery \$50, charger NC-28B \$20, & charger NC-18B \$20; Astron RS-35M 12v DC pwr supply \$130: Abe KC6UQA 432 8222 Escondido.

(06-02) HyGain V-2R collinear 2m vert \$30; AEA Isopole 2-m vert \$30: Duane AA6EE 789 3684 Ramona.

(5-12) PK-232MBX packet data controller (#49679) ex con swbox man 1991 not used 4 1.5yrs \$200: Joe N6RVO 433 6885 Ocsd.

(4-5) Commodore C-64 printer new in box \$75; Eltro voice mic \$25; new FT-5200 0B0, will take 2m only w/large readout; Yaesu FL-2100B 10-80m linear w/spare 572's will demo \$600: Larry W7HKI 439 5855 Ocsd.

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

***** WANTED *****
 "Oh how I need you!"

PARC IS LOOKING FOR THE FOLLOWING ITEMS (old?) FOR THE REPEATER SITE: 30-50' of fencing for tower protection, large & small hammer, axe, small wood saw, paint brushes, crowbar, small scissors, & old garden hoses. We always seem to need some of these items when we don't bring them to the site - W9FQN.

PARC is looking for hanging folders: legal and/or 11" standard. Prefer Pendaflex which will be used to store PARC club documents, technical notes, and equipment diagrams and instruction manuals - WB6IQS 727 3876.

(08-20) XCVR for 6m all mode: Alan N6AMR 434 5656 Carlsbad.

(08-16) Schematic &/or service Man. 4 MPI Printmate 350 printer: Dan W2LUK 592 9901 Poway.

(08-11) Small mobile Kenwood 130, ICOM 725, Yaesu 747 for I.O.T.A (exp'd) w/bracket, mobile linear & antennas for van, sure H/mobile Mic, Atlas P/sup cpi-matext-RTTY comm 64 unit, will pay cash or trade FT5200: Larry W7HKI 439 5855 Ocsd.

(8-3) copies of Kenwood Service Manuals for TS-450s & TS-50 xcvrs for Philippine amateur: Duane AA6EE 789 3674 Ramona.

(8-3) QSTs from 1940s to complete my library: Duane AA6EE 789 3674 Ramona.

(6-10) Hard disk drive for Zenith laptop ZWL-184-97 and manual for ZWL-0200-02: Mike AB6QT 742 1573 P.Mt.

PICNIC Cont.de.pg1 %%%%%%%%%%

The club will provide "ham" (eating kind) punch, plates, and utensils but you can bring your own 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 6 more.

PLEASE NOTE THAT THIS AGAIN YOU CANNOT BRING (or buy) ANY ALCOHOLIC DRINKS: beer, wine, hard spirits, etc. This is a park rule enforced by the park rangers.

A->G, bring a hot dish

H->O, bring a salad

P->Z, bring a desert

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 arrive 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 ..so you had better get there early to reserve "your spot."

RULES ARE 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 20) for participation in designated club events from Aug.1st 1993 to Jul.31st 1994: meetings (1-12), work parties, VE testing program, Net controls, Field Day, contests, last year's picnic, committee heads (1-5), meeting goodies, etc.

3) the drawing will be at the club picnic at 1:05pm.

4) you or your representative must be PRESENT to win by showing a MATCHING ticket stub.

5) you are limited to winning only ONE PRIZE even though your ticket is drawn several times.

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 '94 will not have tickets.

P R I Z E S

Many assorted small items

4 - \$ 25 gift certificates

1 - \$ 50 gift certificate

1 - \$100 gift certificate

If you have changed calls during the year, make sure that when you pick up your tickets that you give your present call and then look through the computer "DUMP" file for your previous call to get all of your tickets. If you did not print your call neatly on the sign-in sheets, your corrupted call could also be in the DUMP file (ur editor always has troubles with the way members write U, V, C, G, etc., and some of you mix upper and lower case letters.

Children are welcome but you will need to watch and entertain them yourselves. there is a playing field for soccer, volleyball, softball, horse shoes, etc. but you will need to bring all of the

equipment needed. There are also hiking trails down to the lake.

THE PROGRAM WILL BE -

9:00 Arrive and set up.

9:45->? Packet radio demo

9:45->? HT/Mobile Frequency & Deviation checking.

10:00 Autopatch Instruction

10:30 Direction Finding instruction with ur HT's

11:00 Hidden Xmtr hunting

12:00 Eat(low cal, low fat)

12:00-12:59 Pick up tickets

1:00 President's comments

1:05 Drawing of prizes

1:15->? Mobile Installations

(be prepared to show yours)

1:30->? PARC BOARD available for questions/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.

***** - HUMOR ? - *****
Pse send humor to Ed. He needs it.

OPRAH WINFREY VIRUS: Your 200MB hard drive suddenly shrinks to 80MB, and then slowly expands back to 200MB.

PAUL REVERE VIRUS: This revolutionary virus does not horse around. It warns you of impending hard disk attack ..once if by LAN, twice if by C:>.

POLITICALLY CORRECT VIRUS: Never calls itself a "virus", but instead refers to itself as an "electronic microorganism."

RIGHT TO LIFE VIRUS: Won't allow you to delete a file, regardless of how old it is. If you attempt to erase a file, it requires you to first see a counselor about possible alternatives.

CONGRESSIONAL VIRUS: The computer locks up, screen splits erratically with a message appearing on each half blaming the other side for the problem.

- 9 1 1 -

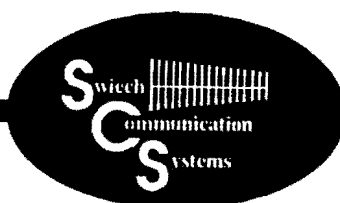
"In the Beginning" PARC saw the need to have some method for mobile operators to contact the police and fire units while driving. This was prompted by the fact that many times people in cars would call for help and no one was listening or near a phone to help them with the emergency.

PARC in the past has encouraged base stations to restrict their operation during mobile hours so that the mobiles would have an opportunity to chat in the mornings and early evenings. One result of this policy was that few (if any) base stations were available to handle emergency 911 calls. We also had the situation during the day when most people were working and some mobile had an emergency 911 call that needed to be made. Many times your editor has been mobile (or up in a tree) and he has heard other mobiles call in vain trying to get someone up to make a 911 call for them. Sometimes the frustrated mobile operator would make some snide comment about no one willing to help and disappear ..probably trying another frequency.

In order to correct this problem PARC (KA6UAI) installed an autopatch on 147.13 and then an autopatch system on ALL voice repeaters so that mobiles would not need to have a base station available to make the 911 call. We even "re-designed" the system so that 911 calls defeated the "time-out" timer.

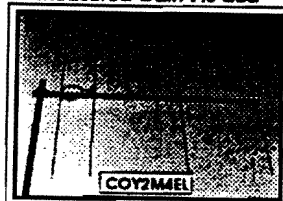
RESULT: We have many club members who come up on frequency asking for someone to help them with a 911 call. Asking for a base station to make or help with a 911 call as probably ok but when no one answers, the SNIDE REMARKS ARE NO LONGER APPRECIATED. The mobile operator needs only to pull over to the side of the road and bring up one of the 4-autopatches (unlimited time-out) and make the call himself which is probably the most effi-

cient way of handling the emergency situation since the mobile operator has all of the "facts" right at his/her finger tips which the 911 operator always seems to ask.

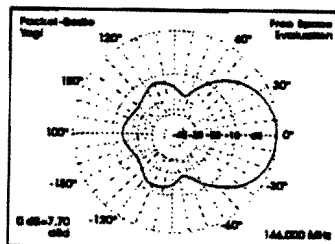


Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd



H-Plane beamwidth 60 deg
Bandwidth 144.5-147.5 MHz
SWR < 1.7 at Band Edge
Impedance 50 ohm
Silver Plated Teflon SO-239
Maximum Power 500 Watts
Chemfilm Treatment On Brackets
Balanced Matching System
Two Part RTV Potting
Black Delrin Insulators



(619) 748-2286
Gene Swiech, WB9COY

It is perfectly correct to ask for a base station to DIAL 911 for you and then for you to do all of the talking. This would keep you from having to pull over to the side of the road to make the call. When you ask for help, you might also indicate your approximate location so that the person helping you with the dialing of 911 knows

whether to run the 911 through patches 1, 2, or 3.

PLEASE DO NOT BLAME OTHER PARC MEMBERS FOR NOT ANSWERING A 911 REQUEST WHEN YOU SHOULD BE CHASTISED FOR NOT CALLING IN THE EMERGENCY YOURSELF. Remember, it IS OK to request help with 911 but it is your responsibility to call it in yourself if no one happens to be listening or is not near a phone. Someone is ALWAYS listening. Its just that they can't always get to a phone.

YOU REALLY SHOULD KNOW HOW TO USE THE PARC AUTOPATCH SYSTEM FOR 911 CALLS. If you need help with the system, the club has an instruction sheet with information. If you do not understand the instruction sheet, contact another club member who has been using the autopatch system or contact W9FQN by phone (749-0276) or at meetings. He will be more than happy to explain the simple procedure to make 911 emergency calls from any place in SDCo.

If you do not learn how to dial 911, then you have to assume FULL RESPONSIBILITY for not helping someone in need.

Club members may bring up the patches for non-club members so that they can make 911 calls but you will need to make sure that the non-club member on 146.73 is using a 107.2Hz PL which is required by the autopatch system. Even if you bring up the patch with your PL, the non-club member's voice will not be repeated to the telephone line without the PL. You will hear the non-club member's voice over the repeater but it IS NOT repeated to the phone line. NO PL ..NO TALKIE WITH WALKIE-TALKIE!

- F M R E P E A T E R S -

The following is copied from the ARRL REPEATER DIRECTORY, 1993-1994 edition with editorial comments on PARC policy in ().

1)MONITOR THE REPEATER TO BECOME FAMILIAR WITH ANY PECULIARITIES IN ITS OPERATION.

2)TO INITIATE A CONTACT SIMPLY

INDICATE THAT YOU ARE ON FREQUENCY. VARIOUS GEOGRAPHICAL AREAS HAVE DIFFERENT PRACTICES ON MAKING YOURSELF HEARD, BUT, GENERALLY, "THIS IS N6YZZ MONITORING" WILL SUFFICE.

3) IDENTIFY LEGALLY; YOU MUST IDENTIFY AT THE END OF A TRANSMISSION OR A SERIES OF TRANSMISSIONS AND AT LEAST ONCE EACH 10 MINUTES DURING THE COMMUNICATION. (PARC requests that you also identify at the beginning of your FIRST transmission. We also require identification after the autopatch access code and again before the "#" when you close it down.)

4) PAUSE BETWEEN TRANSMISSIONS. THIS ALLOWS OTHER HAMS TO USE THE REPEATER (SOMEONE MAY HAVE AN EMERGENCY). ON MOST REPEATERS A PAUSE IS NECESSARY TO RESET THE TIMER. (PARC repeater timers are set from 100-120 seconds. If you try to defeat the time-out feature with RESETS during your transmission, a control operator will probably turn off the repeater for 10-30 minutes. Only message handlers or emergency communications can do RESETS.)

5) KEEP TRANSMISSIONS SHORT AND THOUGHTFUL. YOUR MONOLOGUE MAY PREVENT SOMEONE WITH AN EMERGENCY FROM USING THE REPEATER. IF YOUR MONOLOGUE IS LONG ENOUGH, YOU MAY TIME OUT THE REPEATER. YOUR TRANSMISSIONS ARE BEING HEARD BY MANY LISTENERS INCLUDING MONHAMS WITH "PUBLIC SERVICE BAND" MONITORS OR SCANNERS; DON'T GIVE A BAD IMPRESSION OF OUR SERVICE.

6) USE SIMPLEX WHENEVER POSSIBLE. IF YOU CAN COMPLETE YOUR QSO ON A DIRECT FREQUENCY, THERE IS NO NEED TO TIE UP THE REPEATER AND PREVENT OTHERS FROM USING IT. (PARC encourages simplex operation only when the repeater is being used during mobile or "busy" hours or when there is the possibility of many others wanting to use the repeater. At the first sign of possible usage, you should go simplex ..if possible or move to another club repeater.)

7) USE THE MINIMUM AMOUNT OF

POWER NECESSARY TO MAINTAIN COMMUNICATIONS. THIS FCC REGULATION (98.313(A)) MINIMIZES THE POSSIBILITY OF ACCESSING DISTANT REPEATERS ON THE SAME FREQUENCY. (PARC feels that if you use minimum power, emergency stations running more power than you could be more easily heard.)

8) DON'T BREAK INTO A CONTACT UNLESS YOU HAVE SOMETHING TO ADD. INTERRUPTING IS NO MORE POLITE ON THE AIR THAN IT IS IN PERSON.

9) REPEATERS ARE INTENDED PRIMARILY TO FACILITATE MOBILE OPERATION. DURING THE COMMUTER RUSH HOURS, BASE STATIONS SHOULD RELINQUISH THE REPEATER TO MOBILE STATIONS; SOME REPEATER GROUPS HAVE RULES THAT SPECIFICALLY ADDRESS THIS PRACTICE. (PARC restricts 6:30-7:30am and 4:30-6:30pm. Base stations are encouraged to monitor during these times but they should refrain from a lot of participation. Remember, we have three repeaters other than 146.73 that can be used.)

10) MANY REPEATERS ARE EQUIPPED WITH AUTOPATCH FACILITIES WHICH, WHEN PROPERLY ACCESSED, CONNECT THE REPEATER TO THE TELEPHONE SYSTEM TO PROVIDE A PUBLIC SERVICE. THE FCC FORBIDS USING AN AUTOPATCH FOR ANYTHING THAT COULD BE CONSTRUED AS BUSINESS COMMUNICATIONS. NOR SHOULD AN AUTOPATCH BE USED TO AVOID A TOLL CALL. DO NOT USE AN AUTOPATCH WHERE REGULAR TELEPHONE SERVICE IS AVAILABLE. AUTOPATCH PRIVILEGES THAT ARE ABUSED MAY BE RESCINDED. (PARC wants nothing that even SOUNDS like business. No pizza ordering, etc.)

11) ALL REPEATERS ARE ASSEMBLED AND MAINTAINED AT CONSIDERABLE EXPENSE AND INCONVENIENCE. USUALLY AN INDIVIDUAL OR GROUP IS RESPONSIBLE, AND THOSE WHO ARE REGULAR USERS OF A REPEATER SHOULD SUPPORT THE EFFORTS OF KEEPING THE REPEATER ON THE AIR. (PARC operates "open" repeaters where non-club members may use OUR repeaters on an OCCASIONAL basis. PARC's policy has been that if you have schedules on our repeaters, contact a family member several times a week, or

participate in mobile communications on a regular basis, YOU SHOULD BE A MEMBER OF PARC. PARC dues are the lowest dues in the county for the number of repeaters which the club supports on Palomar Mountain and PARC feels that non-members have an obligation to not FREE LOAD but to support PARC in its operation of our repeaters which cover 2,000 square miles of San Diego County. Remember, dues are only \$12/yr for an individual and \$21/yr for a family no matter how many in the family. PARC members should encourage non-members who use our repeaters to support our considerable operation on Palomar Mountain for everyone's use and for use during emergencies situations. PARC's investment on Palomar Mountain could not be replaced for under \$80,000 and 1,000's of hours of donated labor, gas and car trips to the mountain. SUPPORT WHAT YOU USE AND ENCOURAGE OTHER USERS TO DO THE SAME.)

The ARRL REPEATER DIRECTORY can be bought at club meetings or HRO and the price is around \$6. If you are traveling, it is quite useful in locating repeater frequencies and the PL's they are using.

Thanks to:

Douglas Brigs-KD6LQY of Real Time Services in Poway donated a TV wave form analyzer and vector scope for use in the ATV repeater project.

James Foster, KD6GEJ, for a \$25 donation to a PARC's fund.

Greg Carlson, N7USR, for spotting an un-used Zerox copy machine and to Page Net for donating it to the club ..now if we can just get it working. Does anyone have any experience with these machines? Its big!

***** - HUMOR ? - *****
Pse send humor to Ed. He needs it.

Hold up 2-fingers in the "V" for victory sign. Then ask, "what is this?" ANSWER: a Roman soldier ordering 5-beers!

2 METER NET SCHEDULE PALOMAR AMATEUR RADIO CLUB

p105 SEP'94

| 146.730 Mhz(-) (no PL) | | | | | | |
|---|---------------|-------------------|---------------------|---------------|---------------|----------------------------|
| TIME | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SAT/SUN |
| 0830 | | | | | | (Sun) ARES |
| 1000 | | | | | | (Sun) SAILORS |
| 1915 | RACES | | | | | |
| 2000 | SD Co TRAFFIC | SD Co TRAFFIC | SD Co TRAFFIC | SD Co TRAFFIC | SD Co TRAFFIC | SD Co TRAFFIC |
| 2100 | MICROWAVE | SD PACKET (VOICE) | SPANISH (2ND & 4TH) | COMPUTER HELP | | (Sun) THIS WK IN SAN DIEGO |
| 147.075 Mhz(+) (107.2 PL) | | | | | | |
| TIME | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SAT/SUN |
| 1900 | CODE PRACTICE | CODE PRACTICE | CODE PRACTICE | CODE PRACTICE | CODE PRACTICE | |
| 2000 | | | LICENSE THEORY | HAM HELP | | (Sun) MARA (2030) |
| 147.130 Mhz(+) (107.2 PL) | | | | | | |
| TIME | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SAT/SUN |
| 1900 | | EVAC (2ND & 4TH) | | | | |
| 2200 | KING HENRY'S | KING HENRY'S | KING HENRY'S | KING HENRY'S | KING HENRY'S | KING HENRY'S |
| R T T Y 146.700 Mhz(-) (107.2 PL) R T T Y | | | | | | |
| TIME | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SAT/SUN |
| 2030 | Q S O (RTTY) | Q S O (RTTY) | Q S O (RTTY) | Q S O (RTTY) | Q S O (RTTY) | (Sat) QSO (Sun) NET |

WORK PARTIES de.pg.6 *****

#26(7-23) ART-KC6UQH and GEORGE-KK6KD worked on the 224.38 repeater: adjusting filters, and pre-amp. Everything appears to be back to normal. George was accompanied by Ruben-KE6JGG.

STAN-W9FQN and his former HS Physics student (1965), Tom Gamble ex WA9GWB, brought items up to the site and watered some trees before a tour of the Palomar Observatory by MIKE-AB6LY.

#27(8-3) MIKE-AB6QT removed some small trees in front of the old block building which Stan had previously cut down and took them away for firewood. Mike also cut down several more to complete the 1st phase of clearing burnable material in front of our buildings.

#28(8-4) DAVE-KD6EBY performed his weekly schedule of checking the club's 1680x2 Ahr battery banks and had to increase the charge on one of the two banks. Dave has stopped reading the MAX-MIN temperatures since they seem acceptable in the new building with the modifications previously made: added two large fans and painted the roof silver.

#29(8-6) HARRY-WA6Y00, Art-KC6UQH, and STAN-W9FQN moved a house trailer belonging to the San Marcos Boy Scouts (Troop 650) to Stan's QTH in Valley Center. Dave Lamber-K7WMA, a former club member,

storage of little used items: plywood, coax jumpers, rope, small parts, heliax rolls, several small antennas, etc.

The the scouts had "guttred" the trailer and installed storage racks on three walls making it ideal for the club's use for storage. We will probably have a sleeping cot in the trailer in case someone has to be at the site for emergencies to keep a generator running. It sometimes takes us 10-15 minutes to get the buildings cleared out so that we can walk in to make adjustments to the repeaters. We will also be able to clear out one small metal military radio shed donated years ago by Bob-WA6QQQ. The shed could be used at another site for a packet node.

#30(8-7) We had a big friendly group on this workparty and were able to get a lot of work done well before dusk. It was great going down the hill with the sun still shining. Our new parking lot was full of cars and trucks. Work done: CHUCK-KE6DCJ= painted the block building roof silver with a tar based paint which should also

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Loyal M. Hanson - W9WV
Fallbrook, California

arranged for the donation. After a little paint and caulking it will be moved to the repeater site for

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 |
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| WORK OR OTHER PHONE |
| HAM LICENSE EXPIRES |
| FAMILY MEMBERSHIP (List other calls and names) |
| CLASS OF LICENSE
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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.

extend the life of the 17 year old shingles and replaced a shingle on roof; DALE-KC6WZI, TOM-KE6HRL, and DAVID-KE6DRA helped with all projects; BLANCA-KE6KTE= watered small seedlings; DENNIS & ZAC= painted block building eaves; DAVID-KC6YSO= alarm system connections; JOHN-WB6IQS= cut down some small trees, helped with alarm system, MIKE-KD6VHI= heliax clamps, gnd strap phone line, interbuilding control wiring; BILL-KB6MCU

installed lightning protection for three heliax ATV lines, connected up a lightning protector for the 110VAC lines leading to the ATV equipment, & autopatch system, replaced on a temporary basis the 147.13 repeater with the emergency repeater he constructed (C REPEATERS); ART-KC6UQH= soldering of 3" ground strap to SDG&E grounds and to the battery shed, helped replaced the 147.13 repeater, grounding of 220 club tower (started); JOHN-KD6CDH= was a visitor, talked about the requirements of a packet BBS along with ways of controlling input and output of the various sections along with possible locations of equipment; STAN-W9FQN= gave all of the of new people a guided tour of the repeater site which takes longer than you think: block building, new building, battery shed, tower, antennas, and lightning protection thru proper grounding grounding of buildings, equipment, heliax/coax, etc.

...and of course everyone helped each other as the need arose. All of the new helpers pitched in to remove cut branches and piles of old branches in preparation for moving the donated trailer to the repeater site.

SCOPE

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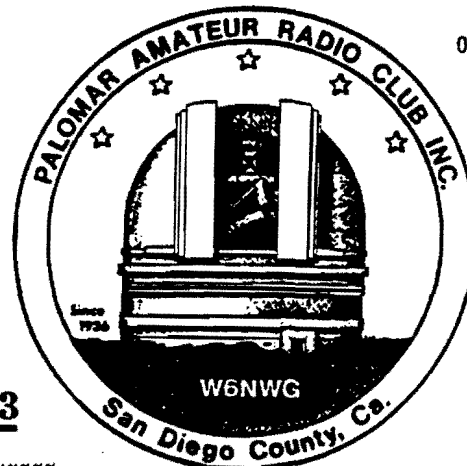
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Scope

W6NWG

Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073



OCTOBER *** 1994 ** 58 YEARS OLD**

Volume XX, Number 10

Published monthly by PARC, an ARRL Special Service Club. Membership \$12 including \$3 for SCOPE. Outside SDC \$4. Coffee 7pm, Mtg. 7:30pm @ 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 on 146.73

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

PARC W6NWG trustee: Ron-WI6B
 Autopatches(4): 146.73-, 147.075+*
 147.13+*, 449.425+*

PACKET: 145.05s; RTTY: 146.700+*
 SIMPLEX: 145.350s, 145.520s, 446.000s
 ATV: 1241.25T(out) / 919.25R(in),
 ATV Intercom 146.43s PL 79.7Hz.

COVERING 2000 SQ-MI OF SDCo.
 OTHER: 224.380-*KK6KD; 224.9-*WD6HFR
 146.175+*WA6IPD; *A11 107.2Hz

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

Oct 1 Sat. PALBBS starts on 145.070
 Oct 2, 3rd Annual SD Round-Up M. Park
 Oct 2 Sun. M.S. 150 Bike Tour 147.130

=====

Oct 5 Wed. CLUB MEETING AUCTION

=====

Oct 8 Sat. PARC VE Tests Carlsbad SC

Oct 9 Sun. WORKPARTY REPEATER SITE==

Oct 13 Thu. PARC 7pm Board Meeting

Oct 21 Fri. Deadline 4 SCOPE articles

Oct 24 Tue. SCOPE mailed at Vista PO

******* NEXT MEETING *******

******* VP KC6UQH *******

VP Art McBride-KC6UQH has announced that the October club meeting will be the club's annual AUCTION. (see AUCTION this page).

There will be NO SHOW & TELL this month because of the auction.

- P A L B B S -

PALBBS stands for Palomar ARC's new BBS with the PAL standing for PAL(omar). This is somewhat similar to PALMAR (Palomar) in PARC's Packet node, W6NWG-1. PALBBS will be W6NWG-3. The name assigned can only have six letters in it which accounts for the "o" missing in "PALMAR."

We hope that PALBBS will ultimately develop into a full service BBS under the direction of John-KE6CDH and his little helpers: Gail-KM6WF, Ellen-N6UWW, Marvin-N6PKK and others. John and PARC hope that PALBBS will become the "PAL" of all club members who use PALBBS.

PALBBS will go into limited action October 1st with equipment furnished by PARC (MFJ-270B & 12vdc Power supply) and items borrowed from John (xcvr and computer). The BBS will be located at John's QTH in Oceanside and will operate 24 hours a day with more and more sections of the BBS being opened as experience is gained and control is established.

Look for your PAL (PALBBS) on 145.07 MHz. You can access PALBBS directly from the Oceanside area, through the Escondido Node of Marvin-N6PKK (ESCN), or through a 145.07 NODE on Palomar Mountain. PARC hopes that in the near future members will be provided with a different frequency to increase the speed and availability of PALBBS.

John-KE6CDH is a computer programmer who has been working as a consultant during the SDCO recession.

- A U C T I O N -

loud, silent and otherwise

-- the humor is free --

The October 5th meeting will be the club's annual auction. High priced items don't usually sell well at these auctions, so be prepared to carry them home if they don't sell. Items selling for \$1 to \$100 usually go more quickly. Don't forget to bring \$\$ and/or your checkbook to take advantage of the great buys that traditionally accompany these auctions.

See state of the art items of 10-30yr ago and watch sellers cry as they part with their beloved treasures ..and buyers eyes light up with glee with each new purchase as they successfully buy something they can't live without ..and bring back next year!

Art-KC6UQH, hancho (el jeffe), is promising dancing girls which Dennis-N6KI, former auction chairman, never produced ..promises, promises!

Steve Kerrin-WA6CDU of the Escondido EARS Club has consented to again be our auctioneer and will be assisted by Art and others too humorous to mention.

Auction rules have again been approved by PARC's Board and are essentially the same as last year:

1) 6:30pm, 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.

5) All monies R paid to PARC.

6) Seller(s) may set a minimum bid on their items.

7) Seller is responsible for removing any items not sold.

8) PARC does not guarantee the condition of any items sold.

9) You don't have to be a PARC member to participate in the Auction so invite your friends to join in on the fun.

10) Sellers will not be paid their money until all monies have been collected that evening so bring an SASE 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 your call. SEE YOU AT THE AUCTION.

*** PARC SILENT AUCTION ***

PARC will have a special table(s) for their SILENT auction. Marked items will have tags for you to write your bid on but you will need to keep checking since someone after you might write down a higher bid. At the end of the auction the highest bidder gets the item.

PARC will also have an area with items four for \$1. You pick any four items and pay your \$1 ..sorry, \$1 is the minimum that we will accept.

BOARD MEETING (voting):

VPresident: Art Mc Bride, KC6UQH
Secretary : Nash Williams, W6HCD
Treasurer : Jennifer Thieme, KM6WG
RTechnical : John Kuivinen, WB6IQS
SCOPE/etc : Stan Rohrer, W9FQN
Board Member: Mike Doyle, AB6QT
Board Member: Rick Zimmermann, KC6LV
(non-voting)

OTHERS: Sybil-W6GIC-ATV, Jo-KB6NMK
Training/FD/ATV: Bill Smith, KB6MCU
Constitution: Jack Hanthorn-KI6JM
BBS: John-KE6CDH, Gail-KM6WF, Oscar-KD6EDC, & Ellen-N6UWW.

- Excused absence -

President : Harry Hodges, WA6Y00
Membership : Ralph Powell, KC6WAN

The meeting was at the QTH of

Stan-W9FQN and Barbara-KA6FPS since Harry-WA6Y00 and Gerry-N6TCB had to make an unexpected trip to see Harry's father who was very ill.
***** WORKPARTY OCT 9:
Painting, cleanup, grounding, etc.



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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- SECONDS -

DISCUSSED: EquipBal \$1185, Gen \$7508, PrePd \$1995, PO \$50, ATV \$50; Oct/Dec programs; auction; workparties; phone controller to N6ZUC; ATV 2.4GHz link problems; 12 students in KB6MCU Gen class; TASMA comments; Sybil-W6GIC ATV\$\$ report noted; etc.

APPROVED: \$36 trailer license; picnic prizes \$250 and ham \$75; \$70 digital voice unit for earthquake detector; appointed Nash-W6HCD (ch), Jo-KB6NMK, and Ellen-N6UWW to nomination committee; 3min candidate talk for Dec election; \$75 packet chip and deviation hardware; Newsline bill; Americas United rent free until Dec31st; W9FQN signing papers for repeater site trailer and new metal building; notification of 220 Club of SDCO on deadline for their new repeater along with size limitations; BBS is called PALBBS; etc.

Please contact one of the board members for more info or see the secretary for written minutes.

We all missed Harry-WA6Y00's brownies but Stan-W9FQN furnished homemade CW cookies. The CW cookies were made during the 7-8pm Wednesday CW net on 147.075 and were made with a dot of this and a dash of that.

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

LAST MEETING

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

Attendance was 113 members and 15 guests for a total of 128. PLEASE COME EARLY and help set up chairs.

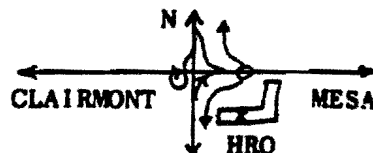
Thanks to Rod-AC6V for an excellently prepared program on Packet with lots of overhead projections. He was ably assisted by John-KD6CDH at the overhead. Chuck-KD6ZSH and Tom-KE6HRL between them produced the transparencies for the overhead projector which is a great way of presenting material.

SHOW & TELL featured Jim Cooper, NE60, with his computerized electronic "pigeon" and Art-KC6UQH with his all wave active antenna (long wave thru 2m) ..with adjustable shape.

ART-KB6YHZ supervised the coffee with BECKY-KE6BUE and Gerry Jones supervising the drink and goodie table with members bringing goodies: Sybil-W6GIC, Jerry-N6TCB, Bill-KM6PY, Mario-KE6JOJ, Paul-N6ISC, George-K6YGK, "J"-KD6PBH, Becky-KE6BUE, Marvin-KD6YJB, & Jerry Jones.



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PRESIDENTIAL QRM WA6Y00

Our annual picnic at Dixon Lake was well attended and I hope everyone had a good time. The weather was very nice, the food was delicious, and I for one thoroughly enjoyed myself.

At the picnic I had the pleasure to thank many people for their contributions to the club and to Amateur Radio in general. It is certainly the volunteers who make our hobby so great.

Since the picnic I have contemplated the whole subject of volunteerism and wondered why some folks are willing to devote their time and energies while others seem to be content to sit and be entertained. I wonder if it is something in the genes.

Marvin, WB6PKK, is always involved in something. His father volunteered to go to Korea when the 40th Division was activated even though his age would have kept him home. Ellen, N6UWW, is involved in more activities than I can count,

her dad, a ham, also gets involved. I am sure I could fill the SCOPE with other examples.

While I was back in Maryland, sitting next to my father's bed as his body surrendered to cancer, I recalled his life of volunteerism. In WW-II at the age of 40 he volunteered to serve in the US Army although prior service in the Marines (and his age) would have exempted him from the draft. For over 30 years in his home state of Mississippi he served in the Coast Guard Auxiliary, using his boat to rescue boaters in distress along the gulf coast. He was continually involved with his community of Pass Christian and with his church.

Surely Stan, W9FQN; Jo, KB6NMK, Dee, N6ELP; Bill, KB6MCU, Art, KC6UQH; Sybil, W6GIC; and the many others who are our net controls, workers at the repeater site, participants at Field Day, members of RACES/ARES/EVAC/RED FLAG, etc. have enough to do with their jobs and families to say "my plate is full". But no, when there is a job to be done they step for-

ward and do it.

If you are not yet involved somewhere as a volunteer, step forward and say: "Here, let me help".

73, Harry WA6Y00.

MEMBERSHIP 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. =SK= ASSOCIATE members who have received their new calls should report them to me along with their expiration dates ASAP so that our records can be updated. =SK=

The club is selling PARC blue hats with the PARC logo on it for \$5 and we are also selling the commemorative HAM 5c STAMP PINS for \$5. See me at meetings. =SK=

PLEASE CHECK YOUR ADDRESS LABEL TO SEE WHEN YOUR MEMBERSHIP NEEDS TO BE RENEWED. IF IT READS 9407, THEN THIS IS YOUR LAST SCOPE

AND YOU WILL NEED TO RENEW IMMEDIATELY to keep your membership current and to have access to the club's autopatches.

THANKS TO ALL OF YOU WHO ARE RENEWING OR SIGNING UP FOR MORE THAN ONE YEAR. WITH OVER 4,000 BLANKS TO FILL IN THE COMPUTER AT THE END OF THE CLUB YEAR ON JULY 31ST, IT CAN REDUCE MY WORK LOAD BY HALF (on the average).

(new)/(RENEWED in CAPS):

2yrs= 01d: JORGE-KK6KD

1yr= New: CHARLIE-W6RGR

GEORGE-KE6KTD MARK-NL7IY 01d:
WAYNE-WD6AHX

NEW CALL: Bill Hamer =>
KE6LSX.

There would have been more listed but I "had to leave town."

73, Ralph 727-7415

ELECTIONS 94-95

The Palomar Amateur Radio Club is a very large club of around 800 members which operates entirely from volunteer labor in many areas of amateur radio. PARC has been lucky over the years to secure good officers and board members with only a few or no changes being made in the board from year to year which keeps a new board from "re-inventing the wheel" every election. A stable board, hopefully, does not make the same mistake twice and remembers how things have been done successfully in the past. A stable board possibly does not move or respond as quickly as an all new board but a stable board creates less friction where there are so many points of view in a large membership.

The 1994 Board Members (9) are:

-- Elected --

Pres. : Harry Hodges, WA6Y00 3yr
V.P. : Art Mc Bride, KC6UQH 3yr
Sec. : Nash Williams,*W6HCD 6yr
Treas. : Jennifer Thieme, KM6WG 1yr

-- Elected --

Board M.:Mike Doyle, AB6QT 1yr
Board M.:Rick Zimmermann, KC6LV 1yr

-- Appointed --

RTech. : John Kuivinen, WB6IQS 15yr
Rptr/NewsLtr:Stan Rohrer,W9FQN 11yr
Membership:Ralph Powell, KC6WAN 2yr

*Indicates a desire to step down
PARC's V-president, Art-KC6UQH, in the absence of President Harry-WA6Y00, appointed a nominating committee at the SEPTEMBER 15th Board meeting with the approval of the Board: Nash-W6HCD Chairman, Jo-KB6NMK, and Ellen-N6UWW members. They will be introduced at the OCTOBER 5th club meeting. Robert's Rules of Order provides that the nominating committee will select a ticket of one person for each position.

At the NOVEMBER 2nd club meeting the nominating committee will present their selection and nominations will be accepted from the floor for each of the elected positions. Nominations from the floor should have the prior approval of the person being nominated.

At the DECEMBER 7th club meeting the nominees will be introduced and the Board voted to allow each candidate an opportunity to speak for three minutes before any voting takes place. If there is only one nominee for a position, no opportunity will be provided for statements of qualifications. The newly elected officers are installed at the end of the December club meeting.

In connection with Section 8(F) of the club's by-laws, if there are more than one nominations for an office, it would seem that space could be made available for statements of qualification in the SCOPE.

- - - - -

8(A)THE OFFICERS OF THE CORPORATION SHALL BE THE PRESIDENT, VICE PRESIDENT, SECRETARY, AND TREASURER.

8(B) THE BOARD OF DIRECTORS SHALL CONSIST OF AT LEAST SIX BUT NO MORE THAN NINE DIRECTORS UNTIL CHANGED BY AMENDMENT TO THESE BYLAWS. THE EXACT NUMBER OF DIRECTORS SHALL BE FIXED, WITHIN THOSE LIMITS, BY A RESOLUTION ADOPTED BY THE BOARD OF DIRECTORS.

A(C) FOUR OF THE DIRECTORS SHALL BE THE FOUR OFFICERS OF THE CORPORATION. THE OTHERS SHALL BE SEPARATELY ELECTED. THREE OTHER

DIRECTORS SHALL BE DESIGNATED BY THE PRESIDENT FROM AMONG THE CHAIRMEN OF THE STANDING COMMITTEES ENUMERATED IN SUBSECTION (T) BELOW. SUBJECT TO THE APPROVAL OF THE PRESIDENT, MEMBERS WHO ARE NOT DIRECTORS MAY ATTEND BOARD MEETINGS BUT MAY NOT VOTE AND MAY PARTICIPATE IN DISCUSSIONS ONLY TO THE EXTENT PERMITTED BY THE PRESIDENT.

8(E) THE PRESIDENT SHALL APPOINT A NOMINATING COMMITTEE TO SELECT QUALIFIED CANDIDATES FOR ELECTION AS OFFICERS AND DIRECTORS NO LATER THAN THE OCTOBER REGULAR MEETING. THE NOMINATING COMMITTEE SHALL MAKE ITS REPORT AT THE NOVEMBER REGULAR MEETING. MEMBERS MAY NOMINATE CANDIDATES FOR OFFICER OR DIRECTOR FROM THE FLOOR OF THE NOVEMBER MEETING. ADDITIONALLY, AT ANY TIME THAT THERE ARE MORE THAN 500 FULL MEMBERS OF THE CORPORATION, MEMBERS MAY NOMINATE OFFICERS OR DIRECTORS BY PRESENTING TO THE PRESIDENT A PETITION SIGNED WITHIN ELEVEN MONTHS PRECEDING THE ELECTION BY AT LEAST TWO PERCENT OF THE FULL MEMBERS. THE ELECTION SHALL BE HELD AT THE DECEMBER MEETING, WITH THE NEW OFFICERS AND DIRECTORS BEING INSTALLED AS THE FINAL ORDER OF BUSINESS AT THE DECEMBER MEETING.

8(F) THE BOARD SHALL FORMULATE PROCEDURES SUCH THAT NOMINEES SHALL BE ALLOWED A REASONABLE OPPORTUNITY TO COMMUNICATE TO MEMBER(S) THE NOMINEE'S QUALIFICATIONS AND REASONS FOR THE NOMINEE'S CANDIDACY, A REASONABLE OPPORTUNITY TO SOLICIT VOTES, AND A REASONABLE OPPORTUNITY FOR MEMBERS TO CHOOSE AMONG THE NOMINEES.

8(T) THE FOLLOWING SHALL BE CONSIDERED STANDING COMMITTEE CHAIRMEN WITHIN THE MEANING OF SUBSECTIONS (C) AND (S) ABOVE, FROM WHOM THE PRESIDENT MAY DESIGNATE DIRECTORS:

- (1)THE EDITOR OF THE NEWSLETTER
- (2)THE REPEATER SITE CHAIRMAN
- (3)THE REPEATER TECHNICAL CHAIRMAN
- (4)THE MEMBERSHIP CHAIRMAN

THESE AND OTHER STANDING COMMITTEE CHAIRMEN SHALL BE APPOINTED BY THE PRESIDENT.

 WB6IQS REPEATERS W9FQN

The morning and evening commute groups are getting VERY LARGE and it is causing some problems with members of the group only able to make several transmissions during their commute to work time ..and the groups are soooo large that you forget WHO is in the group and what order has been established. PLEASE, when you are in large groups of this type, suggest to those of similar interests to yours that you might want to move to 147.13 or 147.075 during the morning and evening commutes. The commute groups ARE TOO LARGE for good QSO's! It is ok, and recommended, that you meet on 146.73 (a calling repeater), but move off to one of our other repeaters ASAP. IF YOU DON'T USE IT, YOU LOOSE IT! It should also be noted that 147.075 and 147.13 are fertile grounds for inviting some of the users of these repeaters to be PARC members.

All of the PARC repeaters were checked 09-11 for proper SWR, frequency, deviation, power output, etc. by John-WB6IQS and they are all within the proper limits.

146.7: A request has been made to TASMA to try Packet on the RTTY repeater as a test. If the request is granted, we will probably allow RTTY on the rest of the hour that 146.73 is being used for the National Traffic System messages. It should be remembered that PARC allowed RTTY on 146.73 on Sunday evenings years ago. RTTY helps the NTS system pass messages after they are "spoken for" on the PARC SDCTN (NTS system) each evening at 8pm. =SK=

145.05: A new Net ROM will probably be ordered sometime soon along with a frequency deviation kit so that members will be able to check their Packet deviation. A PARC BBS is being worked on but will probably be changed to another frequency ASAP. Contact John-KE6CDH for more information. =SK=

224.38: (Americas United): Still has a relay problem which

should be solved by the end of October. =SK=

their antenna mast. =SK=

449.425: Wants to break into oscillation from time to time for unknown reasons creating all sort of weird noises. We hope that it will do it sometime when we are working at the site.

The Navy and Marine based RADAR shows up on many frequencies including the 70cm band where there are many amateur repeaters and links. If you have a strong signal, it is possible to "override" the radar but weak signals many times get obliterated resulting in very poor communications.

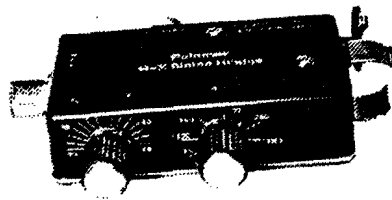
Those of you who use 449.425 will need a good strong signal to overcome the radar when it is present. You might not hear it on the incoming autopatch but the person you are talking to is probably very distracted by it. =SK=

 All coax lines into the new building (freezer) are protected by lightning "strippers" and by POLYPHASE lightning arrestors with gas discharge tubes. Work parties have already started installing "strippers" at the tower before the heliax bends and should be finished sometime in October. The equipment in the old building (146.7 RTTY, 145.05 Pkt, and 70cm backbone Pkt are last on the list because they are further away from the tower and there is a lot of inductance in the 30' of additional cable. It also looks as if some of this equipment will be moved to one of the new metal buildings early in 1995. =SK=

A new(er) all metal building(s?) will be obtained in October and "dug" into the ground but not used until next year. These low profile building(s) have approximately 3' of their 6.5' height dug into the ground. These newer metal buildings will be the most fire resistant of all of PARC's buildings. =SK=

There has been some talk of installing an HF station and HF antennas in the newly installed trailer at the site. Anyone interested? There will also be sleeping facilities but we would need a

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- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

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224.9: The 220 Club of SD has been notified that their repeater in our block building must be reduced in size. It is taking up to 4-times the space of the Americas United 224.38 repeater sitting next to it. The deadline is July 31st, 1995, or they will be charged 4-times the rent! (Board action 09-15-94 -Ed) PARC needs a iron tube several feet in diameter (to be filled with cement) and several feet long as a counter balance for

porta-pottie. How about a QRP rig? Just imagine, you could get into our repeaters "full quieting" with only low power! =SK=

Your repeater site chairman, W9FQN, continues to be amazed at how club members look out for the club's needs for the repeater site and are able to find donated items for us: 80' tower (Bob-WA6QQQ), 16 tons of cement (John-WB6MEI), metal building (Mike-AB6QT), batteries (WA6UTQ), metal building (Mike-KC6VHI), and all of the others who have donated smaller items to the operation of the site. Your looking out for PARC is greatly appreciated. It helps PARC and our Emergency Service commitment to the San Diego area.

PARC is still looking for fencing for protection of the tower. In the last few months we have noted that several houses in the immediate area have been sold and there are little kids in these families so we need to protect "them" from "us." We are also looking for someone that would be able to supervise the modification of the club's 3.5KW generator over to LP gas. This generator uses a battery for a "self start" feature and PARC would be able to turn it on and control it from any spot in SDCo by radio.

We are also looking for someone or a group who would be interested in working on a remote DFing (direction finding) unit or a remote "finger printing" of stuck transmitters or jammer transmitters. We also now have a new group that is interested in Earthquake Location finding. =SK=

WB6FMT AUTOPATCHES W9FQN

#1 Autopatch patch protector had a high pitch beeping the first week in September which showed up on almost all autopatches run through VISTA. The problem was traced to a low battery indicator in the patch protector. Replacing the battery did away with the beeping. The beep did not interfere with the autopatches being run.

#2's control computer went into "never-never" land the first week in September and all attempts at normal control failed. It should be working properly at this time and has been modified to accept many prefixes which are also in the patch #3 area. Remember, every phone number can be accessed by at least ONE (many by 2) of our patches so if you have a problem in #2, then try #3 and vice versa.

#3 has been expanded to accept even more prefixes so that it now covers many of the same prefixes as covered by patch #2.

----- U.S. Postal Service -----

STATEMENT OF OWNERSHIP, MAN., & CIR.

1A. S C O P E

1B. # 0 7 6 5 3 0

2. 09 - 15 - 94

3. Monthly (12 issues/yr)

4. PARC Inc., 30311 Circle R Lane
Valley Center CA 92082-4806

5. PARC Inc., 30311 Circle R Lane
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2. Returned

G. TOTAL

Editor: Stan Rohrer, W9FQN

Signed: *Stan E. Rohrer*

***** EARL-W6YYV ILL:

Pacemaker implant at Kaiser Hospital and doing well.

***** HAM STAMP PINS:

Replica of ham postage stamp, \$5.

Contact an officer at the next meeting.



- N E W S -

Contributions should arrive by the 20th of the month.

Tournament Of Roses Radio Amateurs (TORRA) is looking for amateurs to help with the Rose Bowl Parade. 1st meeting is Saturday October 1 at 1pm. Call Cliff-KB6IA at 213-257-3293 in Pasadena or for info contact Ellen-N6UWW yesterday.

(Dave-WD8LOY ALL@USA) I have transcribed the Novice Question Pool into grade two braille. Now, the Technician Pool is available also. For further info call me at 214-235-9821. de Larry-WA6UTQ

Ellen-N6UWW and Kitty-N6KVN, on the spur of the moment, borrowed Jo-KB6NMK's DFing antenna and entered the SWDIVCON T-hunt Sunday afternoon after the main activities of the convention. Kitty drove while Ellen worked the 4-el direction finding quad. THEY CAME IN 4TH and just missed 3rd being passed at the last minute by KE6VK, Paul, who was using a doppler unit. Craig, N6ATQ, was the 7th hunter to find the hidden transmitter. The hunt lead them off of I-8 into the Sunrise Highway and Pine Valley area on Kitchen Creek road (It is our understanding that the antenna came in 2nd last T-hunt!). =SK=

Joel-KM6XA passed his EXTRA CLASS. He says, "if I can do it, anybody can!" =SK=

Ellen-N6UWW passed her GENERAL CODE test at the SWDIVCON and now has her General Class License. =SK= USGS8B, 1-800-358-2663, N-8-1 F.D., 1200b -de Ellen-N6UWW.

=SK= The widow of Guglielmo Marconi died July 15, 1994, at age 94. de ARRL LETTER.

Be sure to look at your FCC license expiration date after any changes. As of 6-8-94 it is not an automatic 10-year term. -de FCC.

CQ magazine will celebrate 50 years of publishing in 1995 with a special January anniversary issue. de ARRL.

***** WORKPARTY OCT 9:
Painting, cleanup, grounding, etc.

FORESAIL

Yawl Ketch On?

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=

PARC #1, Hundreds of feet of 1.12" 3-stranded rope with each strand composed of 18-strands for a total of 54 strands. This is the type of rope you would like to get stranded with! Would make great tow rope for cars, trucks, barges, rope to tie up the kids with or that extra large dog (KB6NMK needs some), rope to tie up drifting oil tankers, etc. Keep your kids at home!: Stan W9FQN 749 0276 VC.

PARC #2, PARC is selling their maritime fleet! Rough water cruiser WITH TRAILER, winch(s), wench(s), 50cal, lights, ores, etc. See to appreciate. Bring lifesaver(s) & ur own amo, cheap! OBO & BYOB: Stan W9FQN 749 0276 V.C.

PARC #3, SIEMENS electronic RTTY w/screen, chad punch/read, keyboard, stand, etc. Must take home to appreciate: Stan W9FQN 749 0276 VC

(09-13) Collins S-Line 75S3 \$250, 32S3 & pwr suply \$300 (winged emblem, gud condx, cables, manuals): Pete K6JQE 755 4838 S.Beach.

(09-13) ICOM IC-24AT 2m/70cm HT w/encode decode PL, 200mah bat w/charger, 1200mah bat \$300 or trade HF xcvr?; G6-144B in box never used 2m/gain ant \$80: Mike WB6CSH POB 2831 Fort Bragg CA 95437.

(09-12) TS-820 HF xcvr \$350: Glenn WB6BOD 748 4783.

(09-10) Kenwood 120 M/Mie, cables ex cond \$325; Atlas 210X W/HB AC, mic, mobile rack w/cables, gud starter rig \$210; Commodore C-64 & printer ok for RTTY-CW or packet, both \$125: Larry W7HKI 439 5855 Ocsd.

(09-10) Kenwood TS-940S xcvr w/auto tuner 2-CW filters mint non-smoker \$1150; ICOM IC-28A 2m 25w xcvr \$225: Duane AA6EE 789 3674

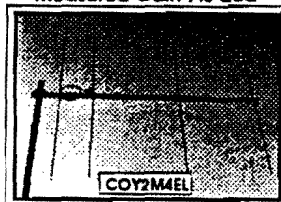
Ramona.

(08-16) SWR & Pwr meter STRUTHERS DIRECTIONAL w/case 2-30MHz 144-470MHz 70-470MHz \$130: Lief KE6BZP 223 4983 SD.

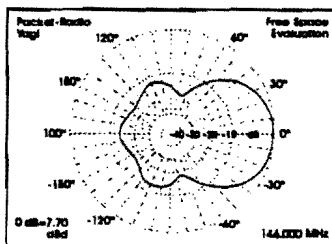
Swiech
communication
systems

Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBS



H-Plane beamwidth 60 deg
Bandwidth 144.5-147.5 MHz
SWR < 1.7 at Band Edge
Impedance 50 ohm
Silver Plated Teflon SO-239
Maximum Power 500 Watts
Chemfilm Treatment On Brackets
Balanced Matching System
Two Part RTV Potting
Black Delrin Insulators



(619) 748-2286
Gene Swiech, WB9COY

(08-11) YAESU FT5200 144-440 dual band 3mo old 10hrs cost \$700 need larger readout, exchange for 2400 or other mobile (45-50w) + cash; C-64 computer, 1541DD, printer (great for Packet); will demo YAESU FL2100B linear 10-80 + WARC 572B's \$400: Larry W7HKI 439 5855 Ocsd.

(08-10) RTTY machine KSR-35

all SS gears de police dept: Allen 739 1405 Esc. (Info thru Walt Huckabay W6JRQ-1916).

(08-19) ICOM 47H 45w mobile \$100: Tim NM7V 753 3567 Encinitas.

(7-6) Kenwood TS-130S, PS30, AT130 & desk mike w/stand gud condx: Dee N6ELP 753 5647 Encinitas.

(7-6) large selection tubes, sockets pwr supplies, xfmr's, xtals, spkrs, hardware, coils, pots, etc. All priced to move: Lee W6TDC 724 7460 Vista.

(7-5) IBM XT Computer & TNC Gud shape \$125: Tim N6ZUC 735 9125 Esc, also packet 145.07 ESN N6ZUC.

(7-5) 15AH 12v VASA sealed batteries \$5ea: John Sharp 740 5107.

(6-21) ICOM AC bat.chg BC-30 \$25 OBO; Benchner Iambic paddle \$40 OBO; MFJ delux elect keyer MFJ-407B \$40 OBO; Motorola speaker \$5: Curtis N6XXU 727 9254 Vista.

(6-20) C-64 + Packrat best offer; 286 comp + mono + 1M HD \$200; Robot Slow Scan w/camera \$50: Ron AA7GL 549 4207 SD.

(6-13) YAESU FT-890AT w/CW flit \$975; YAESU FT-530 dualband HT + 800MHz \$350, Delux remote headphones MH-29 \$75, FNB-26 HT battery \$50, charger NC-28B \$20, & charger NC-18B \$20; Astron RS-35M 12v DC pwr supply \$130: Abe KC6UQA 432 8222 Esc.

(5-12) PK-232MBX packet data controller (#49679) ex con swbox man 1991 not used four 1.5yrs \$200: Joe N6RVO 433 6885 Ocsd.

HIGHWAY ELECTRONICS: parts, (new/old) military. Ask 4N1ck, 967-7225 2 C if open (10-3pm), 305 Wisconsin Ave, Ocsd

***** WANTED *****
"The White Cliffs of Dover"

PARC IS LOOKING FOR THE FOLLOWING ITEMS (old?) FOR THE REPEATER SITE: 30-50' of fencing for tower protection, large & small hammer, axe, small wood saw, paint brushes, crowbar, small scissors, & old garden hoses. We always seem to need some of these items when we don't bring them to the site - W9FQN.

PARC is looking for hanging folders: legal and/or 11" standard. Prefer Pendalflex which will be used to store PARC club documents, technical notes, and equipment diagrams and instruction manuals - WB6IQS 727 3876.

(09-19) ICOM PS-740 or PS-35 power supply: Dennis N6KI 271 6079 SD.

(09-10) ROBOT 800 + keyboard; HAL Tele-reader for RTTY + keyboard; Kenwood 130's Acc., SP120 spker, VFO 120, HS5 Headphones, MC50 mic w/cables & manuals for next I.O.T.A expo; Kenwood 144-220 HT(5+) or mobile (40+); mobile antennas all bands; mobile & base linear (Kenwood?) 922L or ?; Drake MN2000 tuner; small mobile pwr wattmeter/I.O.T.A.: Larry W7HKI 439 5855 Ocsd.

(09-09) WANTED GOOD WOMAN WHO can cook, work 30wpm, Bench test equipment and manage a pile-up. Must have Alpha and Antenna Farm. Please send photo of Antenna Farm! Mike, 8501 Western Dr, Houston, TX 77055-2322 de AA6EE & AMATEUR RADIO TRADER Aug '94.

(09-07) HEATH/SCHLUMBERGER frequency counter for spare parts, Mod SM-110A, SM-110B, or SM-110C: Bob WA6QQQ 723 2700da Flbrk.

(08-20) XCVR for 6m all mode: Alan N6AMR 434 5656 Carlsbad.

(08-16) Schematic &/or service Man. 4 MPI Printmate 350 printer: Dan W2LUK 592 9901 Poway.

(6-10) Hard disk drive for Zenith laptop ZWL-184-97 and manual for ZWL-0200-02: Mike AB6QT 742 1573 P.Mt.

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

REPEATER SITE WORK PARTIES, IF HELD, ARE USUALLY SCHEDULED THE SUNDAY IMMEDIATELY FOLLOWING THE CLUB MEETING ..and as needed. We meet at MOTHER'S KITCHEN on PMT at 10:30am. Please bring a lunch, drinking water, & 5-10gal of water for our little tree seedlings."

NEXT WORK PARTY OCTOBER 9th.

SCHEDULED: grounding, tower work, heliastax runs, painting, site work, repeater modifications,

security work, brushing, etc. Contact W9FQN for info: 749-0276.

#31(8-9) CHUCK-KE6CDJ and STAN-W9FQN painted the inside of the new trailer white and while it still needs more work, the trailer is ready to be taken to the repeater site sometime within a week as long as it is not a Saturday or Sunday when the motorcycles race up and down the Palomar Mountain grade.

#32(8-9) MIKE-AB6QT visited the site and replaced several controller chips which were improperly programed by the designer. This should clear up the problem which we have been having under certain circumstances that forces the Morse code "P" to be sent out when in fact there has been no power outages. From now on the "P" will mean that AC power is now off OR HAS BEEN OFF sometime earlier. The "P" must then be turned off by a control operator ..oops, the "P" is still with us under certain conditions.

#33(9-7) ART-KC6UQH, CHUCK-KE6CDJ, and STAN-W9FQN took the Boy Scout donated 20' trailer to the repeater site without problems except that Stan was somewhat disturbed when Art, who was pulling the trailer with his xyz in 3rd gear, pulled away from his Nissan 4x4 in 3rd gear with his foot shoved to the cooling fan! They just don't make them like they used to.

We will now be able to move LOTS of items out of the repeater buildings to the trailer plus we will have a workbench area or a place for a ham station in the trailer ..if we don't cover it up with junk.

(9-10) Stan-W9FQN visited the Mira Mesa autopatch and re-programmed the computer and then did the same for the La Mesa autopatch. The La Mesa autopatch computer would not accept ALL of the prefixes and so several prefixes were shifted from the La Mesa to the Mira Mesa patch.

#34(9-11) Another beautiful day on the mountain. We couldn't

interest anyone on painting so none of the buildings received their second coat of paint.

A lot of work was done: 1) picked up limbs, brush, and leaves from around several sides of the buildings, 2) a spot was prepared for the new metal (partly underground) building (6.5'x6'), 3) the trailer was jockeyed into position and put on blocks with the wheels removed, 4) untangled some of the heliastax runs, and 5) attached the first 3" flat lightning straps to one of the heliastax runs before leaving the tower (many more need to be done during the next workparty).

We had a good crew and a lot of thanks and credit also goes to: Zac and Dennis, "J"-KD6PBH, Bill-KE6??? , Dave-KD6OBG, & Dave-KC6YSO for a job well done.

John-WB6IQS and Mike-AB6QT worked on the repeaters checking their frequency, deviation, SWR, etc. Everything checked ok. Mike showed everyone the test box he made for the repeater controllers and demonstrated its use.

Stan-W9FQN took all of the new workers on a tour of the repeater site along with Chris-NONDF who brought along Enrique Nunez who was interested in seeing how an "amateur" repeater site looked like.

Bill-KB6MCU came up to work on the ATV and replace an RF amplifier in the emergency repeater for 147.130. He was assisted by Sybil-W6GCI. They found the the repeater was 2kc off frequency.

George-KK6KD brought along his 224.38 workers, Ruben-KB6JGG, Dan-KD6DKM, and Ramon-XE2TRO who also helped with the site cleanup as well as working on their repeater.

John-KE6JOI came up later in the day and stayed to help with the cleanup and closing of the site.

***** N.ARIZ.COLORADO:
FALL FEST Oct 8&9th, Bullhead City Ariz, prizes, raffle, tailgating, dealer booths, demonstrations, food & refreshments, etc. Contact Fred 619-326-5094.

 NATIONAL TRAFFIC SYSTEM (NTS)

 PARC's SAN DIEGO COUNTY
 TRAFFIC NET (SDCTN), which is
 affiliated with the ARRL NTS and
 with the Military Affiliated Radio
 System (MARS), handles large
 amounts of traffic during the
 evening 8pm SDCTN on 146.730.

Our SDCTN is in need of mes-
 sage handlers who can deliver traf-
 fic throughout SDCo by phone or by
 autopatch. Many of our messages
 come to SDCo through the MARS RTTY
 nets and are then transferred over
 to PARC's evening SDCTN.

Sometimes the MARS message
 load is overwhelming and our SDCTN
 needs help in the delivering of
 these messages from our service men
 and women. The following is a sam-
 ple of messages delivered one
 evening. They were not selected for
 their content. They are listed in
 the order of being received.

#1 SWEETHART LET OMBUDSMEN
 KNOW WHATS GOING ON WITH OUR SONS
 HART SURGERY. OMBUDSMEN ALSO HAS TO
 SEND REDCROSS MESSAGE STATING MY
 PRESENCE AND HARDSHIP ITS GOING TO
 CAUSE BOTH OF US. LOVE YOUR HUSBAND
 ARMANDO.

#2 THANKS FOR THE SWEET LOVING
 MESSAGE. LIFE IS MUCH EASIER
 KNOWING THAT YOURE ALWAYS THERE FOR
 ME. SEND PICTURES PLEASE. I CANT
 AND I WONT STOP LOVING YOU AND OUR
 TWO LOVELY KIDS. MISS YOU.

#3 REGARDLESS OF REDCROSS
 MESSAGE SENT BY DOCTOR, IT WILL NOT
 GUARANTY MY PRESENCE IN OUR SONS
 SURGERY. OMBUDSMEN HAS TO SEND
 MESSAGE TOO. PLEASE TELL SHAWNA, I
 LOVE HER, ROB LOVES AND MISSES YOU.

#4 DONT FEEL DEPRESSED
 ALMIGHTY WILL BE WITH MY THOUGHTS
 WITH YOU ALWAYS ALBERT.

#5 I LOVE YOU DARLING, AND I
 MISS YOU TERRIBLY. OUR TIME
 TOGETHER WAS COMPLETELY FANTASTIC.
 ONCE AGAIN YOU REVITALIZED MY
 ATTITUDE AND RECONFIRMED MY
 PRIORITIES. HOPE YOU ARE HANGING IN
 THERE UNTIL TH NEXT TIME.

#6 AUDREY PLEASE SEND PHYSICAL
 ASAP. ASK BALBOA TO SEND IT TO SHIP
 BY MESSAGE. PLEASE ANSWER ME USING

THE MESSAGE GRAM. I LOVE YOU, BYE.

....and on and on!

Some evenings Charles-N6TEP
 (PARC's SDCTN chairman) and crew
 have to handle 20-30 of these mes-
 sages throughout all of SDCo
 although recently most of the traf-
 fic has been Navy and ends up in
 the San Diego area.

Jennifer A. Thieme
KM6WG

Bookkeeper
Accountant

(619) 599-1134

770 Sycamore Ave. #J-126
Vista, California 92083

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WE NEED OPERATORS TO DELIVER
MESSAGES and we also need people to
 help with the net control duties.

If you can't join the net in
 any way, at least listen in and try
 to help with messages which are

comming to your area of SDCo. We
 are sure that many of you have
 served with our Armed Forces and
 realize the value of communications
 with ones family especially when so
 many of our service men and women
 are young and placed in unfamiliar
 and sometimes dangerous situations.

There are seven NET CONTROLS.
 One for each evening of the week
 and if you have 1-2 evenings a week
 available, we would like to have
 you check into the net. Make sure
 that you get your call on EACH
 evenings roster that you are inter-
 ested in joining since the NC's do
 not share their rosters with each
 other.

Your editor listens in to most
 of the evening SDCTN's but seldom
 checks in except when there is
 traffic within my calling district
 or when there is traffic going to
 some remote part of SDCo that no
 one has spoken for which I can
 deliver by the autopatch.

I probably should check in
 even when there is no traffic that
 I can help deliver since sometimes
 the NC's feel they are the only
 ones on the net with so few check-
 ing into the net.

PARC's SDCTN is one of the
 oldest continous FM traffic nets in
 the USA and has served as a
 training ground for emergency
 traffic handlers in the SDCo area.
 Are you prepared to help with
 EMERGENCY COMMUNICATIONS when the
 "big one" comes? Here is your
 chance to learn what is needed to
 handle traffic and to help the
 public and our service men and
 women. YOU ARE NEEDED!

If you can't check in at least
 one night a week, then try to check
 in on the anniversary of your
 birthday each month. Be patient.
 Our net controls and a few net
 members have handled all of the
 traffic for so long that it might
 take them a while to realize that
 you are out there willing to help.
MAKE YOUR PRESENCE KNOWN!

P.S. There is the possibility
 that PARC's PALBBS packet BBS will
 become involved with the SDCTN
 traffic when it goes into the full

service mode so some of you Packet people can help by picking up some of the traffic listed on the BBS when this happens.

KI6JM/K6HAV - A G O G O - W9FQN

(10-89)(5yrs) ..KB5MU spoke on Satellites ..friction with SANDRA over our 147.135 and their 147.150 repeater interference ..147.135 moved to 147.13 with TASMA approval ..Jo-KB6NMK described the Vail fire near Riverside Co.

(10-84)(10yrs) ..Nash, W6HCD, talked on Solar Power for residential use. W9FQN announced that the tower was up! SCOPE gave a narrative of the erecting of the tower ..with pictures.

59 COMPLETED ?? STARTING 60

The Palomar Amateur Radio Club Inc. was founded in February of 1936 in Escondido with members meeting in members houses throughout North County. Most of their members were in North County and down along the coast to La Jolla.

February of 1995 marks the end of 59 years of club activity and the starting of our 60th year of existence which makes us probably the biggest-oldest amateur radio club in the world.

This brings up an interesting question. Should the club celebrate the start of their 60th year on February 1995 or wait until the 60th year is completed in February of 1996? There might be reasons to observe both celebrations. What do you think?

S.D.Co.TRAFFIC NET(SDCTN) -KJ6QO

How many of you can imagine being away from family and friends, often for months at a time, with only an occasional and expensive phone call home? Every day your mind wanders as you look at a few wrinkled photo's, wondering if everything is going ok. Then you start to imagine what a burden it is for them, being without you. The wor-

ries on their mind as you spend weeks on end in a far away place, one of a dozen trouble spots around the world. Enter Amateur Radio - A three or four minute MARS call can be a lifesaver, and if you don't agree, tune your HF or SW rig to the MARS frequencies and listen to some ongoing patches. In 1993, I spend six weeks in Somalia and was not only making as many DX contacts as possible, (3200 single op), but made over 400 MARS Phone patches. to watch grown men cry, not from sadness, but from the joy of hearing their families and knowing that things are still ok. You could see and feel the boost in moral. Along with SSB, sending MARS radio grams by CW or RTTY provided another link to the outside world. A 30 word message, even days late, was many times the lift that wives and parents needed to help them cope with separation.

The purpose of this note is not to evoke tears, or to take up space in the SCOPE - it is to try and recruit some additional message handlers for the San Diego County Traffic Net (SDCTN). If you can only handle 1 or 2, I'm sure you will feel the silent appreciation of the recipient, and maybe get some satisfaction in knowing you've brought some light into a dark evening. Remember, Amateur Radio is "our" wonderful hobby; but more importantly it is a public service, and that service is a brilliant tribute to the work of countless Hams around the world. 73, Jeff Herbster KJ6QO.

***** CORRECTION *****
EVAC (2nd/4th) at 1900Hrs on 147.13 is on MONDAY EVENING. Not on Tuesday evening as per Oct. SCOPE.

- P I C N I C -

PARC's picnic at Dixon Lake had 63 names on the sign-in sheet although Barbara-KA6FPS counted over 75 in attendance. Most of those attending participated in seminars on PARC's autopatch system, DFing, hidden transmitter hunting, while others rag chewed, had their rigs tested by Art-

KC6UQH, or checked out John-KC6UQH's portable packet set up ..and others walked down to the lake.

Winners of the prizes given out on the basis of tickets earned through participating in club activities were:

A)BOOKS: David-KC6YSO (donated to Fallbrook HS), Sybil-W6GIC, Anita-KB6YHY, Ken-N6ALA, Mike-AB6QT, Pat-WA6MHZ, Mark-AA6TR, and ??

B)\$CERTIFICATES: \$100-Tim-N6ZUC, \$50-Nash-W6HCD, \$25-Mark-N6NNI, \$25-Bill-KC6YOX, and \$25-??

The two 1994 Callbooks were donated by HRO in Claremont Mesa while the five ARRL books came from our Southwest Division Director, Fried Heyn-WA6WZO.

A great big thanks goes to John-KE6CDH who was picnic chairman, Art-KB6YHZ who was responsible for the coffee and utensils, Art-KC6UQH (testing), and Stan-W9FQN (patch & DFing). Thanks to everyone who brought good food and to those who arranged the serving table. It all was appreciated.

Each member attending received one activity point for the '95 picnic!

M E X I C O HAM/CB N6GNB

A "Mexican" CB license is required and costs \$13/yr at the office of Oscar Revire, Administry of Communication and transportation, #48 Mar De Corter (Lomas Del Por Vinir) in Tijuana with a phone of 011-5266-803626. A CB radio can be confiscated if it is in a vehicle in use or not. The intent is there.

The license must be purchased in person using the proper ID with CASH. It is suggested that when crossing the border, ask the border officer what CB Ch is best to use to keep out of trouble as the local police and government officers use CB for communication. More info next time.

 SCOPE COSTS W9FQN

Effective 12:01am, Oct 2, '94, one section of the Second-Class Mail rates will increase for mail inside SDCo from 8.4c/SCOPE to 8.8c/SCOPE.. There is a reduction in another section for out of SDCo going from 23.7c/SCOPE to 21c/SCOPE. The net effect for the September mailing would have been a saving of \$.65 in the total cost of mailing the SCOPE. It should be noted that the cost of sending SCOPEs outside the county is about three times that of in the county.

Each SCOPE of 12 pages costs 34c. This would result in a yearly cost of \$6.60 for those receiving the SCOPE outside SDCo. The cost for those in SDCo would be \$5.14. It costs PARC \$1.46 more per year per member for those outside of SDCo. All of this does not take into account approximately \$800 of advertising published by the SCOPE each year.

Each year PARC sends out approximately \$200 worth of "free" SCOPEs to prospective members, newsletter exchanges, and requests.

Various ideas have been put forward to reduce SCOPE costs by taking advantage of free printing offers by club members where we only pay paper and ink costs but in the final analysis to change what we are now doing would require a lot of extra effort on the part of many club members who would have to do the work that PARC is now paying for at what we think is the "cheapest" rate in town at COPY WORLD in Escondido: printing, collating of 12 pages, and one staple in the upper left corner.

Advertising is a source of extra revenue which helps pay the cost of the SCOPE. Rates are \$40/pg down to \$5/business size Ad per issue. This used to contribute greatly towards the cost of the SCOPE. A business card Ad used to buy 22 lines of printed space and go out to 200 members. Now that 22 lines goes out to 800 members meaning that each business card Ad used

4,400 lines of advertising space each issue where now each business card Ad must use 17,600 lines with the cost of the Ad remaining \$5. There will come a point when the \$5 business card Ad will ONLY pay for the paper it is printed on with nothing going to PARC to help with the SCOPE.

With the present limit of 12 pages per issue, selling more Ads would probably only reduce the space for club activities.

**REGISTERED
 U.S. PATENT ATTORNEY**

723-0620

Loyal M. Hanson - W9WV
 Fallbrook, California

On the average it costs PARC approximately 13.5c/3-col line to produce each year while the advertiser is paying approximately 23c/3-col line. The difference between these two numbers is the "profit" for selling an Ad for an 800 member club. If our membership goes up to 1,350, then PARC's costs soar to 23c/3-col line and the advertiser is only paying for the paper he is using with nothing left over to reduce SCOPE costs.

1st, we could increase the price of each Ad which might cause advertisers to end their relationship with PARC. 2nd, we could reduce the size of each Ad while still retaining the important advertising information. 3rd, we could reduce the number of pages in the SCOPE from 12 to 10 or 8. 4th, we could do without an issue or

publish one issue covering two months in the Spring. 5th, we could send out 2-4 issues with nothing more than our regular ads and meeting notices. 6th, we can reduce the size of the type by half and use only 6 pages! 7th, or do nothing since we are "surviving" as it is.

Ads help pay for the SCOPE, help club members with the selling of their services or items, and helps club members select someone to do business with that they can trust better than the general public.

At present, your \$12 club dues goes towards the SCOPE and the general operation of the club with very little (if any) going towards the repeater site equipment and Field Day equipment. Dues money is used for insurance, all phone lines, all electricity, maintenance of club property, and supplies.

The repeater site equipment and Field Day equipment are funded thru sales of donated items, 10% sales, rentals, \$-donations, ads, goodie table, etc. and at the end of the year anything left of your dues is added to the equipment fund (nothing this year).

There is no plan on increasing club dues but we are looking at ways of reducing club expenses and increasing club revenue. PARC's venture into the Oceanside Swap Meet did not pan out. It would have added greatly to the club's extra income allowing us push forward on several projects more rapidly.

***** SDCTN FLASH:
 PARC's SDCTN National Traffic Net needs someone to be net control on Wednesday evenings at 8pm. No experience necessary. Lots of On The Job training. PLEASE, WE DO NEED HELP!

**Join other Amateurs - help
 the physically handicapped
 be Licensed Amateurs**



Courage HANDI-HAM System
 Courage Center
 3915 Golden Valley Road
 Golden Valley, Minnesota 55422

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 |

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.

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

NEWSLETTER HELPERS SEP. SCOPE:
 KI6JM, Jack Hanthorn, Folding, Refresh
 N6WQR, Bernice Rosenberg, Folding
 KB6YHZ, . Art Nye, . Folding
 WA6UTQ, . Larry Ruegseger, Folding
 WA6Y00, . Harry Hodges, . Staples
 KB6YHY, . Anita Nye, . Labels
 KB6NMK, . Jo Ashley, . Labels
 KC6WAN, Ralph Powell, Printing, Labels
 Editor: Stan-W9FQN 30311 Circle R Ln
 Valley Center, CA 92082-4806
 749-0276, 11:30am or 9:45pm

*** E L M E R S *** (call for info)
 CARDIFF, . Duane-WB6R, 753.4821
 CARLSBAD, . Ron-KM6MW, 436.6908
 CHULA VISTA, Steve-N6RUV, 422.4415
 ESCONDIDO PresHarry-WA6Y00, 743.4212
 La MESA, . Roger-N6UW, 697.6025
 LAKESIDE, . Mac-WB6GXR, 561.2211
 RAMONA, . Vern-AA6UU, 789.3070
 SAN DIEGO, . Dennis-N6KI, 271.6079
 SAN MARCOS, . Ralph-KC6WAN, 727.7415
 VISTA, . . . Jack-KI6JM, 598.0420
 SAN MARCOS, Rusty-AA6OM, 747.5872
 Prospective amateurs ONLY can call
 1-800-32-NEW-HAM @ the ARRL Hdq
 8am-5pm ET M-F for Ham Info.

----- I N S I D E -----

Pg. 1 Frequencies, Calendar, Next Meeting, PALBBS, AUCTION, etc
 Pg. 2 Board, Last Mtg, Ad
 Pg. 3 Pres.QRM, Membership, HRO Ad
 Pg. 4 Election Information,
 Pg. 5 Repeaters, Ad
 Pg. 6 Patch, Ownership, News,
 Pg. 7 For Sale, Wanted, Ad
 Pg. 8 Work Parties, Ariz/Col FunFest
 Pg. 9 National Traffic System, . Ad
 Pg. 10 AGOGO, 59760, Cor, Picnic, Mexico
 Pg. 11 SCOPE costs, SDCTN Flash, . Ad

SCOPE, US Post Office #076530
 Published by: --- PARC, Inc. ---
 Postmaster: Send changes to SCOPE
 PO Box 73, Vista, CA 92085-0073

Radio Fun

2nd Class
 Postage paid
 at Vista CA
 92085 - 9998

BUY

AUCTION

SELL



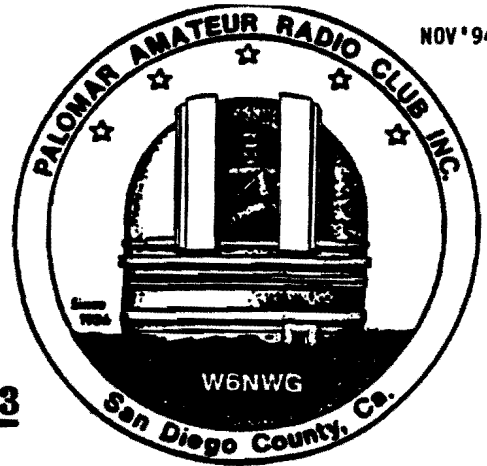
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 Mira Mesa
 La Mesa
 Fallbrook
 Palomar Mountain

Membership Expires
 PRC yy mm
 License Expires
 LX yy mm

Phone Codes
 Deliver To

Scope

W6NWC



Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073

NOVEMBER ***** 1994 ** 58 YEARS OLD

Volume XX, Number 11

Published monthly by PARC, an ARRL Special Service Club. Membership \$12 including \$3 for SCOPE. Outside SDC \$4. Coffee 7pm, Mtg. 7:30pm @ 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 on 146.73

OPEN REPEATERS / CLOSED AUTOPATCHES
PARC PALOMAR MT. REPEATERS (W6NWC):

PARC W6NWC trustee: Ron-WI6B
Autopatches(4): 146.73-, 147.075+*
147.13+*, 449.425-*

PALBBS: 145.070 (W6NWC-3) SYSOP KE6CDH
PACKET: 145.05s; RTTY: 146.700-
SIMPLEX: 145.350s, 145.520s, 446.000s
ATV: 1241.25T(out) / 919.25R(in),
ATV Intercom 146.43s PL 79.7Hz.

COVERING 2000 SQ-MI OF SDCo.
OTHER: 224.380-*KK6KD; 224.9-*WD6HFR
146.175+*WA6IPD; *A11 107.2Hz

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

Nov 2 Wed. CLUB MEETING..EARTHQUAKES

Nomination report

Nov 6 Sun. WORKPARTY REPEATER SITE??

Nov 10 Thu. PARC 7pm Board Meeting

Nov 12 Sat. PARC VE Tests Carlsbad SC

Nov 25 Fri. Deadline 4 SCOPE articles

Nov 29 Tue. SCOPE mailed at Vista PO

Dec CLUB ROSTER IN DECEMBER SCOPE

Dec 2 TASMA Mtg. Carlsbad S.C. 9-12

Dec 7 Wed. CLUB MEETING...CHRISTMAS

Election for 95

Dec 11 Sun. WORKPARTY REPEATER SITE??

NEXT MEETING VP KC6UQH

PLEASE COME EARLY and help set up chairs.

VP Art McBride-KC6UQH has announced that the November club meeting will be a program on Earth-

quakes with a SHOW & TELL about the new earthquake detector to be installed on the 146.73 repeater this winter. We hope the meeting does not "shake" you up too badly.

(S)HOW & (T)ELL: See Art-KC6UQH B4 meeting to reserve time.

- P A L B B S - KD6CDH

As of 10-13, the following have checked into your PALBBS:
K6RTD KE6JOJ N6NZX WA6UTQ KN6IP
W6SKI KE6JGJ N6ZUC KJ6ZD KA5Q W6QCA
KD6ZSH N6ALA WD6AHW KD6AKT N2DCA
K06BX N6YMD AC6V KB7RAG WB6PKK
AB6LY WB6NBU KD6IVF N6UWV KA3YAN
KB6RCT WA6Y00 AC6EA WA6MHZ K06IQ
KN6YS KC6SZM KE6GGP KB5MU AB6OK
KC6MIE. *SK=

It needs to be remembered that PALBBS is a very young BBS and will be growing rapidly as your SYSOP (John-KE6CDH) and my little helpers progress with an orderly instituting of new features. If you can help with some of the monitoring duties or have suggestions, please leave a message for your PAL (John-KD6CDH, SYSOP) on PALBBS.

Remember, we want PALBBS to be your "PAL."

Some of the items suggested for the PALBBS are: listing of Club Officers & Board members, listing of PARC ELMERS, listing of PARC EXPERTS, what to do in SD, Club Calendar, notes to the PARC Board, repeater listings, PARC net schedules, SANDARC club listing, PARC By Laws, SCOPE items, Questions & Answers, PARC affiliated groups, Mexican license info, PARC membership info & meetings, work parties, things the club needs, etc. Let us

know what you are interested in having on PALBBS. If you need a PAL, we are there to help you!

The PARC Board voted at their October Board Meeting that the BBS could have a listing of PARC club members (call, 1st name) but that telephone numbers and addresses would not be listed since many club members do not wish to have their address and telephone number made so public. Each club member will receive a roster in the December SCOPE and can pick up additional complete rosters from the membership chairman if needed at anytime during the year. (Continued p10).

- E A R T H Q U A K E -

The BIG ONE IS COMING!

David Drake, KN6TX, is going to make available to the club an earthquake detector he constructed which will soon be installed on Palomar Mountain with its output probably tied into the 146.73 repeater. He is thinking about designing and constructing the electronics to give us a "pulse" for a certain level of quake disturbance.

When an earthquake occurs the output of the detector will turn on 146.73 and a pre-recorded voice would come on and say "QUAKE ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT.. up to TWENTY" seconds.

Listeners in the San Diego area would then note what number they hear being said as the disturbance passes them. Armed with this information and the location of the reporting station, the net control with a map would be able to almost immediately tell the quakes

direction.

BOARD MEETING (voting):

President : Harry Hodges, WA6Y00
VP-president: Art Mc Bride, KC6UQH
Secretary : Nash Williams, W6HCD
Treasurer : Jennifer Thieme, KM6WG
Board Member: Mike Doyle, AB6QT
SCOPE/etc : Stan Rohrer, W9FQN
Membership : Ralph Powell, KC6WAN
(non-voting)

OTHERS: Sybil-W6GIC-ATV, Ellen-N6UWW
Training/FD/ATV: Bill Smith, KB6MCU
Constitution: Jack Hanthorn-KI6JM
BBS: John-KE6CDH; Bill-WD6AHW

- Absent -

Board Member: Rick Zimmermann, KC6LV
RTechnical : John Kuivinen, WB6IQS
The meeting was at the QTH of
Harry-WA6Y00. Again great brownies,
Harry.

- SECONDS -

DISCUSSED: EquipBa1 \$1232, Gen
\$6966, PrePd \$2795, PO \$160, ATV
\$50 & \$25k income notification;
\$365 de Auction; upcoming meetings;
SCOPE articles; Ads; participation
points; election; membership 780+;
jackets \$35; patch computers; patch
& control moves; 900MHz link;
AlarmsU; TASMA papers (40pg+\$70);
new batteries; new metal Rpt
bunker(s); BBS update; use of
"remotes" on our repeaters; battery
shed and battery problems; TASMA
meeting Dec 3rd Carlsbad Safety
Center 9-12; etc.

APPROVED: 1 pt 4 Ham Radio
Roundup, 2pts for Rptr Site Wrk
Party; SK equipment always sold
free of charge for club members,
others 10%; BBS club roster (CALL +
NAME); W9FQN to sign for batteries
& metal shed; etc.

Contact a board member 4-more
info or C the secretary 4-minutes.

***** LAST MEETING

Attendance figures are:

M=Members G=Guests T=Total
Nov Oct Sep Aug Jul Jun May Apr
M= ? 125 113 112 98 94 ? 105
G= ? 17 15 11 11 13 ? 19
T= ? 142 128 123 109 107 125 124

(Bring or invite a friend)

Thanks to everyone for a great
AUCTION (see pg 10).

ART-KB6YHZ made the coffee and

Sybil-W6GIC supervising the drink
and goodie table ..and members
bringing goodies: N6TCP, KM6PY,
KD6CKT, N6ISC, and WB6GXR.

SEPTEMBER GOODIES: W6GIC,
N6TCB, KM6PY, KE6JOJ, N6ISC, K6Y6K,
KD6PBH, KE6BUE, KD6YJB, & JERRY
JONES.

The goodies were great & U
were rewarded with "1" participa-
tion ticket.

Thanks to:

Lucille Balke, wife of Jerry-
W6YLA who passed away in January,
for the donation of an HT for club
use and for a \$100 check.

James Foster, KD6GEJ, for a
\$25 donation to a PARC's fund.

Chuck-KD6ZSH, Marvin-WB6PKK,
and Tom-KE6HRL for all the Zerox
copies for Rod-AC6V and John-
KE6CDH's packet presentation.

Marvin-WB6PKK for a copy of
"GROUNDS" for Lightning and EMP
Protection and also an information
sheet in the Packet Net X-1J. Your
editor greatly appreciates any
information sent his way on these
subjects.

Ellen-N6UWW for the EARTHQUAKE
information.

Marvin-KD6YJB for some nice
looking address labels and for the
Net Schedule in the September
SCOPE.

Marcel-W6NKB for brining in a
large number of hanging folders
which we will use for storing
information about the repeaters at
the repeater site.

...and to Harry-WA6Y00 for
additional folders which will be
used in the club's file cabinet and
file storage boxes.

Paul-N6ISC for his helping
Ralph-KC6WAN, PARC's membership
chairman, with registration of new
members at club meetings. We hope
everything went well with your
recent operation.

Larry-WA6UTQ for bulletins on
all phases of packet ..especially
on those relating to BBSsystems.

Douglas Brigs-KD6LQY of Real
Time Services in Poway donated a TV
wave form analyzer and vector scope

for use in the ATV repeater
project.

Greg Carlson, N7USR, for
spotting an un-used Zerox copy
machine and to Page Net for
donating it to the club ..now if we
can just get it working. Does
anyone have any experience with
these machines? Its big!

***** ELECTIONS 94-95

Club elections for President,
Vice-president, Secretary,
Treasurer, and two Board members
will be held at the December club
meeting.

At the November club meeting
the nomination committee composed
of Nash-W6HCD (Ch), Jo-KB6NMK and
Ellen-N6UWW will present their
recommended slate of officers. The
individuals they are recommending
have all indicated a willingness to
serve in their nominated positions.

The president will then
provide an opportunity for
"nominations from the floor."
Individuals nominating other club
members from the floor should have
the PRIOR "approval" of the person
they are nominating.

After all nominations are
recorded, those nominated will be
placed on the ballot for the
December election.

Where more than one person is
running for an office, opportunity
will be given at the December club
meeting to state their
qualifications.

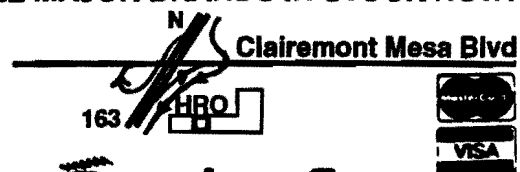
***** KI6JM/K6HAV - A G O G O - W9FQN

(11-89)(5yrs) Club auction
..Claude Kirpatrick W6DWE SK ..Ray-
N6EQB and Mark-KC6COD up-graded to
advanced (now AA6TR) ..K0JPK/R
interference problems on 146.73 in
Industrial Hills (intersection
605/60 in LA) ..W6NWG was 3rd in
the nation in 5A (we started our
move up the ladder to #1 -Ed).

***** - HUMOR ? - *****
GOVERNMENT ECONOMIST VIRUS:
Nothings works, but all your diag-
nostic software says everything is
fine.



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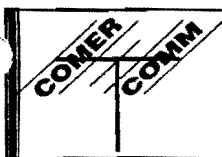
RADWARE GETTING CLOSER...

The RADWARE Card has officially passed the test for FCC certification!
We should have full approval very soon now.

By the time you read this, the RADWARE Bulletin Board should be up and running. Call modem number 599-0185 to download these files:

- RADWARE Demonstration Program
- Preliminary Operations Manual for RADWARE
- Latest RADWARE delivery information.

Feel free to chat with the SYSOP, asking any questions you might have about RADWARE or COMER.

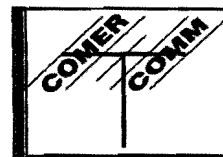


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2598 Fortune Way - Suite I

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PRESIDENTIAL QRM WA6Y00

A tip of the hat to all those who were involved in the Club's annual auction. Our VP Art McBride put together a great team and many visitors expressed amazement as to how smoothly things went. Steve, W6CDU did his usual outstanding job as auctioneer. Jennifer, KM6WG, Jo, KB6NMK, and Terri, N6UZH, handled the paper work and didn't get home until midnight. And to all the others who volunteered to help set up the tables, moved the items around as the auction progressed, and otherwise contributed: Many Thanks!

At our November meeting, in addition to the program on earthquakes, the nominating committee will present its slate of officers for 1995. Nominations will also be accepted from the floor. Please try and attend this very important meeting.

Finally, as you are well aware, we amateur radio operators exist to provide a public service. In recognition of this the Congress of the United States passed a joint House-Senate resolution (October 7, 1994) which recognizes our efforts in the public's behalf. The resolution requests all governments, Federal, State, and Local to provide reasonable accommodations to facilitate Amateur Radio. Let's continue to provide that service: Join ARES, RACES, EVAC, and step forward when asked to volunteer.

73, Harry WA6Y00.

MEMBERSHIP 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. =SK=

Many thanks to Paul Lackey-N6ISC for his invaluable help at club meetings assisting me with my membership duties on meeting nights.

I will have a new club roster ready for the December SCOPE.

Club membership is 780 (10-13-94) and climbing. The prediction for the end of the club year (July 31st) is 850. If everyone signs up one new club member every five years (thats not asking too much?), we could end the year with a membership of over 950! Guess that means some of you will have to sign up several to make up for those who are "too busy" to help with getting new members.

The size of the PARC is not so important as the ability to serve larger numbers of hams in the San Diego Co. area. We might also see if we can get the attendance at club meetings up over 150!

ARE YOU A GUD AMBASADOR FOR PARC ON THE AIR AND IN PERSON?

(new/renewed members)

2yrs= Zane-K6WK Bob-KE6JGM
Geo-KK6KD Ramon-XE2TRO Salvador-XE2UGF
Howard-NN8P Bob-WA6GYG Rita-N6FSQ
V.L.-KE6DFD Joe-N6ELW Craig-KE6IEW
Glenn-KI6GC

1yr= Ken-KE6JNB Wayne-WD6AHX
Charlie-W6RGR Mark-NL7IY Duane-KE6BZK
Vern-NOCP5 Mary-NOEUV Mike-WB6CSH
Logan-KC6UZF David-KN6TX KJ-WA1TW
Mark-KD6WQK Chris-KC6SZM Remy Lehot
Brian Magone Chris-KE6KNM Sabrina-KE6KTC
Chris-KE6KNM Jim-WD6GIV Evelyn-KX60
Gerry Bobian Mike-KE6KNL Bill Harding
Gordon-KN6RG Pete-K6JQE Leroy-W6CGY
Terri-N6UZH Rod-KM6SM Walt-KJ6SK
Chuck-W6IRM ChasJr-K6ERW Martine-KC6YEU
KC6WMI KC6WYS Peter-N6YMC Richard Leake-N6MGG
Russ-N2BV John-WB6SML Glen-KE6DFB
Leon-WA5BNH Hoover-KD6IAX Gerald-Bobian
Doug-KD6LZM Lou-KE6LZS Bob-KE6DMC
Steve-KE6LZL Mike-KE6LBZ Bob-AB6NC
Billy-N9YMJ Cnythia-KD6TBY Kristen-Peterson
Jack-KN60Q Terry-Smithwick Mike-Ryan
Ron-AA7GL Greg-N7USR Steve-KD6SPB
Joel-KN6ZO Larry-N6VDZ John-KE6LCV
Julia-AB6ZH Stelly-KE6DSM Ray-KN6JC
Debbie-KD6MVC

NEW CALL: Pete Singer => KE6LME;
Eric-KC6CLM => K06IQ; Raford Henry => KE6CJS.

73, Ralph 727-7415

EDITOR



Your editor uses "xyz" when he is typing along at 50wpm to indicate that he is not sure of a fact or designation of an item or person. The plan is to return after the section is finished and do a word search for all "xyz's" which are then corrected with the information needed. Unfortunately, the last few SCOPEs had several articles where the "xyz's" were not re-checked ..and they "slipped" through and were printed. Everyone should know that Art's truck is not an xyz but a POWERFUL '68 FORD with a '72 360cuin V8 and a 411 rear end (the truck) that loaded pulling a trailer can still pull away from your editor's Nissan unloaded truck with his xyz in the fan.

AG60s come from previous Club Newsletters which are provided to us by some of the older hams in the club. JACK-KI6JM and RALPH-K6HAV (now in Salt Lake City) have and are working on word descriptions of each Newsletter. STAN-W9FQM also provides some of the AG60s and edits the rest of them. =SK=

Your editor welcomes short articles from the membership although it would be nice to know what you are thinking of before you send it in although that is not necessary.

It would be nice to receive little notes at club meetings or in the mail with items of general interest about club members for the NEWS section. Of course LETTERS to the EDITOR are always welcome ..and usually printed.

Thank you!

Art, KC6UQH and Mario, KE6JOJ did a great job talking to a bunch of fifth graders from Painted Rock Elementary School on the Palomar repeater last week. It is very hard to keep a conversation going when you get one word answers to all your questions. The kids really were excited about it though. Thanks a bunch guys - Ellen & Jo.

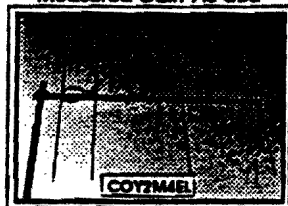
Ad sizes and prices

A8 1/2" h x 7 1/2" w\$40
B4 1/4" h x 7 1/2" w\$20
C6 1/4" h x 2 5/16" w\$10
D3 1/8" h x 2 5/16" w\$5

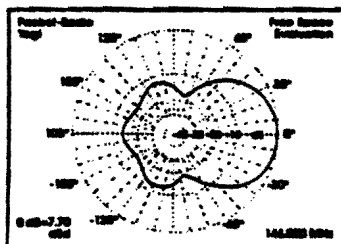
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Black Delrin Insulators



(619) 748-2286
Gene Swiech, WB9COY

**REGISTERED
U.S. PATENT ATTORNEY**

723-0620

Loyal M. Hanson - W9WV
Fallbrook, California

WB6IQS REPEATERS W9FQN

TASMA, the 2m coordination body for So. Cal. will hold a meeting at the Carlsbad Safety Center in Carlsbad, Saturday December 3rd, from 9am-12p. If you have never attended a TASMA meeting recently (or not at all), we suggest that you do so this time to see what PARC has to contend with in keeping its repeaters coordinated and in good standing.

There has been some talk of adding an HF station to the repeater site with dipoles and a 3-band beam. We used to have a 10m rig linked to 147.13. Anyone interested in this? (W9FQN).

PARC's Technical Committee and Repeater Controllers will meet at W9FQN's QTH towards the end of January or the beginning of February at 1:00pm to discuss control codes and repeater projects for 1995. The meeting is by invitation only but club members may have their input by 1) attending the January 12th board meeting, 2) writing a letter to Stan-W9FQN or John-WB6IQS, or by 3) talking to a board member or Technical Committee member (John-WB6IQS Stan-W9FQN Art-KC6UQH Larry-AB6LY Mike-AB6QT Ron-WI6B Tim-N6ZUC Jerry-WB6FMT Paul-KB5MU Bill-KB6MCU Mike-KD6VHI John-KE6CDH George-KK6KD David-KC6YSO Bill-KC6YOX Harry-WA6Y00). As in the past, we will invite several observers to the meeting. =SK=

The PARC Board has decreed that you can receive another activity point if a new club member writes down your call letters on their application form as a sponsor! =SK=

PARC member, Bob-WA6QQQ, who is a broadcast engineer, measured the PL frequency on the output of the 146.73 repeater at 106.86Hz (should be 107.2Hz) or 0.34Hz in error. The 146.73 frequency was measured at 146.730004MHz for an error of only 4Hz. Looks like 146.73 in "on the money." =SK=

When setting the deviation of FM transmitters for repeater opera-

tion, TASMA, the Two Meter Spectrum Management Association, wants FM deviations set to 4.2KHz or below even though the FCC indicates 5KHz is the maximum allowed. Repeaters, mobile rigs, and HT's should not be set for more than 4.5KHz deviation but as close to 4.2KHz as possible. With 20kc channel spacing we could get away with more but with the 15kc spacing in Southern California we must observe deviations less than 4.2KHz. =SK=

TASMA required all repeater operators to turn in new sets of paperwork for ALL REPEATERS: old coordination papers, and equipment specifications (xmtr, rcvr, heliax, antenna, DB gains, DB losses, area coverage maps, usage, etc). They also wanted \$10 registration for each repeater. PARC had to register (again) four 2-meter repeaters (.7, .73, .075, & .13). By the time PARC was finished, W9FQN had to turn in 40 pages of registration material and spent about \$90 in fees and copy costs..all to confirm what we already have! =SK=

145.05: Everything normal..if we only knew what that meant!

145.07: PALBBS is up and running.

146.7: looking into modification to Packet. SDCTN RTTY traffic will be handled on 146.73 during the hour that SDCTN conducts the traffic net if this change is made.

146.73: Earthquake detector to be connected to this repeater.

147.075: Normal. Will be replaced by Bill-KB6MCU's emergency repeater sometime in November for modifications.

147.13: Still operating on the emergency repeater. Original repeater should be back up sometime in November after modifications and installing a new controller.

224.38 (Americas United): intermittent Heliax line replaced by 9913 coax line already on the tower. Will change back to Heliax in the Spring.

224.9: SD2206p will start work on a new repeater which is smaller in size (takes up space of 4 PARC repeaters).

449.425: Periodically "howls".
Problem being investigated.

ATV: C ATV article p10.

919.25R: Input Normal.

1241.25T: Output Normal

WB6FMT AUTOPATCHES W9FQN

The TIME LADY has been removed from the MMSA and LMSA patches and by the time you read this, it will probably have been removed from the VSTA patch. =SK=

It was reported that a 911 call "timed out" during a bike ride problem 10-9-94.

The autopatch electronics was re-designed so that 911 calls would have "unlimited" time to complete the 911 call although a 911 call WILL TIMEOUT if you are not making transmissions which is required by the FCC. If you are shunted off to another police or fire department phone number, you MUST make a transmission every 100 seconds. That transmission can take the form of: 1)announcing your callsign, and saying "I have a 911 emergency autopatch" each 100 seconds of non-activity, 2)announcing your callsign each 100 seconds, or 3)simply by KERCHUNKING the repeater (pressing your push-to-talk switch for one second) each 100 seconds. All of these transmissions will extend the timeout timers another 100 seconds from the END of your last transmission. PARC is looking into another automatic method of doing the same thing but it might not be a legal way of taking care of the problem.

In this 2nd generation of the autopatch system, we assumed that you might be talking for more than 100 seconds to emergency personnel so the design was altered to allow the timeout timers to be resent at the end of each of your transmissions resulting in "unlimited" time to complete the 911 call as long as you say something each 100 seconds. We were not thinking that your 911 call would be tossed around from department to department without your making a transmission during that 100+ seconds.

There is an FCC required TIMER WHICH WILL "GET YOU" (turn off) IF YOU ARE LONGER THAN 100+ SECONDS WITHOUT A TRANSMISSION!

TO MAKE YOUR 911 CALLS WITH UNLIMITED TIME AVAILABLE, THE REPEATER MUST RECEIVE FROM YOU A TRANSMISSION (OR A KERCHUNK) BEFORE 100 SECONDS OF "YOUR" INACTIVITY IS COMPLETED TO KEEP FROM GETTING CAUGHT BY ONE OF THE TIMEOUT TIMERS. This is being said several ways so we hope that you get the idea!

It needs to be remembered that PARC has to deal with all sorts of timers (6+). The FCC states that you must have provisions for automatic shutoff in case you loose control of your repeater or link which means that there are timers on the repeater you are using, several on the autopatch system at Palomar Mountain, and several at each entry point into the phone system: VSTA, MMSA, and LMSA. It is very easy to run into timer problems.

What probably killed the 911 VSTA emergency call was inactivity by the 911 calling station resulting in the VSTA (or MMSA/LMSA) connection closing down the connection to the phone line since that timer thought that the Ham making the call had "fallen" into a deep dark pit since the timer had not "heard" recently (within the last 100 seconds) from the Ham making the 911 call.

The 100+ seconds timer was chosen because if something happened to a normal autopatch being made, that a re-dial would not find TWO autopatch transmitters up and running (the one "left hanging" and the new one) at the same time.

Life is not simple. You fix one problem and another related problem is now able to show up.

RULE: YOU MUST MAKE A TRANSMISSION AT LEAST ONCE EACH 100+ SECONDS TO ALLOW UNLIMITED TALK TIME ON 911 CALLS. =SK=

#1 patch is being moved to a new location in November but will remain in the Vista area. Moving date is expected to be November

20th or 27th.

#2 patch seems to be normal after a few problems in early September when several prefixes suddenly disappeared as we added several new prefixes assigned to San Diego Co. Expanded coverage of the San Diego City area has been added.

#3 patch normal but with expanded San Diego City coverage.

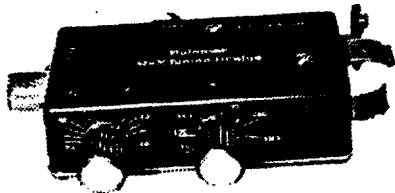
Expanded coverage in patches #2/#3 means that they have been programmed to cover many overlapping areas so if you are calling a number "in the blind" without your PREFIX SHEET you will have a greater chance of getting through on your first attempt with an unknown prefix. If you are calling in the San Diego area and fail in #2(#3), then try #3(#2) or vice-versa.

Jerry-WB6FMT and Stan-W9FQN are looking into new inexpensive computers for controlling the prefixes allowed by each section with the VSTA patch being the test area sometime in November. The new computers would probably allow patches #2 and #3 to call many more areas in common to these two phone sites. =SK=

KI6JM/K6HAV - A G O G O - W9FQN

(11-84)(10yrs) ..Jack, W6RXX, gave an illustrated talk about radio control models ..voted \$500 donation by SANDARC. to Handi-Hams ..membership cards were available from KA6FPS. N6GZI now heads the Interference Committee. ..W9FQN authorized to spend up to \$200 for antenna hardware for the new tower. Vern Baumgartner, W6HW, voted an honorary member of the Club for donation of \$600 worth of Heliex and connectors. SCOPE gave the history of the tower, formerly used by radio station KPRI atop the PRC building near Balboa and Genesee. Bob Gonsett, WA6QQQ, was instrumental in getting the tower donated to the Club. A call sign roster listed 180 club members. (We are now 4 times larger 10yrs later -Ed).

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Poop Decks R-4 ??

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/co1. line (35spaces). =SK=

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

PARC #1, Hundreds of feet of 1.12" 3-stranded rope with each strand composed of 18-strands for a total of 54 strands. This is the type of rope you would like to get stranded with! Would make great tow rope for cars, trucks, barges, rope to tie up the kids with or that extra large dog (KB6NMK needs some), rope to tie up drifting oil tankers, etc. Keep your kids at home! Support your loco tower: Stan W9FQN 749 0276 VC.

PARC #2, PARC is selling their maritime fleet! Rough water cruiser WITH TRAILER, winch(s), wench(s), 50cal, lights, ores, etc. See to appreciate. FREE SWIMMING LESSONS. Bring lifesaver(s) & ur own amo, cheap! OBO & BYOB: Stan W9FQN 749 0276 V.C.

PARC #3, SIEMENS electronic RTTY w/screen, chad punch/read, keyboard, stand, etc. Must take home to appreciate: Stan W9FQN 749 0276 VC

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

(10-15)Kenwood 2m xcvr (5230?): Ralph 728 4053

(10-10)Kenwood TS-450S xcvr w/AT '93Mod new in box \$1095; Matching PS-53 P/S \$150; AEA MM-3 Memory Keyer \$135; MFJ-202 Noise Bridge new \$40; AEA Ispole 2m vert \$25: Duane AA6EE 789 3674 Ramona.

(09-30)New and used software original disks manuals packaging & some hardware ---MS Access 1.0 w/1.1 upgrade \$45; Polaris PackRat 4.1 \$60; Aldus Pagemaker 4.0 \$75; Aldus Intellidraw 1.0 \$45; Express Publisher DOS \$20; Express Publisher WIN \$25; WinFaxPro 3.0 w/Cover Page Designer \$25; Morefonts w/ATM Fonts (programs) \$10; SmartComFax DOS \$5; Print Shop Companion DOS \$15; New Print Shop

Deluxe WIN \$20; PSF:Write w/American Dict & extra fonts (int) \$10; Hijack for Windows \$15; Money Counts DOS 7.0 & 8.0 \$15; Db1 Disk \$5; Announcements for Windows 1.0 \$10; CP Backup 4 Windows \$10; Quicken for Windows 1.0 \$10; American Heritage Dict DOS \$10; OS2/2.0 4 Windows (disks still sealed/reg) new \$30; OX2/2.0 Full Program New (d.s.s/reg) \$100; Corel Draw 4.0 CD \$140; Corel Graphics CD \$50; Corel Art Show4 CD \$50; Corel Professional Photo CD \$40 (All Corel programs \$200; Hayes Modem External w/soft \$30; Hayes FaxModem External w/soft \$70; MFJ Versa Tuner II w/man \$60; Heathkit vU Phonepatch \$245; Vanco SWR/FS/WATT meter \$10; also VHF crystal 6-chan radio w/xtals (including Navy MARS) \$30: Mark KC6CZO 739 1533 eve/wk ends.

(09-14)Collins S-Line 75S3 \$250, 32S3 & pwr suply \$300 (winged emblem, gud condx, cables, manuals): Pete K6JQE 755 4838 S.Beach.

(09-13)ICOM IC-24AT 2m/70cm HT w/encode decode PL, 200mah bat w/charger, 1200mah bat \$300 or trade HF xcvr?; G6-144B in box never used 2m/gain ant \$80: Mike WB6CSH POB 2831 Fort Bragg CA 95437.

(09-12)TS-820 HF xcvr \$350: Glenn WB6BOD 748 4783.

(09-10)Kenwood 120 M/Mie, cables ex cond \$325; Atlas 210X W/HB AC, mic, mobile rack w/cables, gud starter rig \$210; Commodore C-64 & printer ok for RTTY-CW or packet, both \$125: Larry W7HKI 439 5855 Ocsd.

***** OLD ADS *****

OLD ADS PRINTED ON ODD MONTHS:

(Jan-Mar-May-Jul-Sep-Nov)

(08-19)ICOM 47H 45w mobile \$100: Tim NM7V 753 3567 Encinitas.

(08-16)SWR & Pwr meter STRUTHERS DIRECTIONAL w/case 2-30MHz 144-470MHz 70-470MHz \$130: Lief KE6BZP 223 4983 SD.

(08-11)YAESU FT5200 144-440 dual band 3mo old 10hrs cost \$700 need larger readout, exchange for 2400 or other mobile (45-50w) + cash; C-64 computer, 1541DD,

printer (great for Packet); will demo YAESU FL2100B linear 10-80 + WARC 572B's \$400: Larry W7HKI 439 5855 Ocsd.

(08-10)RTTY machine KSR-35 all SS gears de police dept: Allen 739 1405 Esc. (Info thru Walt Huckabay W6JRQ-1916).

(7-8)Kenwood TS-130S, PS30, AT130 & desk mike w/stand gud condx: Dee N6ELP 753 5647 Encinitas.

(7-7)Large selection tubes, sockets pwr supplies, xfmr's, xtals, spkrs, hardware, coils, pots, etc. All priced to move: Lee W6TDC 724 7460 Vista.

(7-5)15AH 12v VASA sealed batteries \$5ea: John Sharp 740 5107.

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

(6-20)C-64 + Packrat best offer; 286 comp + mono + 1M HD \$200; Robot Slow Scan w/camera \$50: Ron AA76L 549 4207 SD.

(6-13)YAESU FT-890AT w/CW flt \$975; YAESU FT-530 dualband HT + 800MHz \$350, Delux remote headphones MH-29 \$75, FNB-26 HT battery \$50, charger NC-28B \$20, & charger NC-18B \$20; Astron RS-35M 12v DC pwr supply \$130: Abe KC6UQA 432 8222 Esc.

(5-12)PK-232MBX packet data controller (#49679) ex con swbox man., 1991 not used for 1.5yrs \$200: Joe N6RVO 433 6885 Ocsd.

***** W A N T E D *****
"Will you be mine?"

PARC IS LOOKING FOR THE FOLLOWING ITEMS (old?) FOR THE REPEATER SITE: 30-50' of fencing 4 tower protection, large & small hammer, axe, small wood saw, crowbar, small scissors, & old garden hoses. We always seem to need some of these items when we don't bring them to the site -W9FQN.

(10-15)Need diagram of Telex CM-1320 headset with boom mic w/o connector: Nash W6HCD 940 1028 Fallbrook.

(10-12)Collins speaker and Collins power supply: Stan W9FQN

749 0276 VC. for Hugh K4ESQ.

(10-11)IC-2AT + charger: Greg 788 9024 Ramona.

(10-10)ICOM IC-735 xcvr; manuals 4 Kenwood MC-80 mike & for Swan 4-e1 3-bander: Duane AA6EE 789 3674.

(09-19)ICOM PS-740 or PS-35 power supply: Dennis N6KI 271 6079 SD.

(09-10)ROBOT 800 + keyboard; HAL Tele-reader for RTTY + keyboard; Kenwood 130's Acc., SP120 spker, VFO 120, HS5 Headphones, MC50 mic w/cables & manuals for next I.O.T.A expo; Kenwood 144-220 HT(5+) or mobile (40+); mobile antennas all bands; mobile & base linear (Kenwood?) 922L or ?; Drake MN2000 tuner; small mobile pwr wattmeter/I.O.T.A.: Larry W7HKI 439 5855 Ocsd.

(09-07)HEATH/SCHLUMBERGER frequency counter for spare parts, Mod SM-110A, SM-110B, or SM-110C: Bob WA6QQQ 723 2700da Flbrk.

(08-20)XCVR for 6m all mode: Alan N6AMR 434 5656 Carlsbad.

(08-16)Schematic &/or service Man. 4 MPI Printmate 350 printer: Dan W2LUK 592 9901 Poway.

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

REPEATER SITE WORK PARTIES, IF HELD, ARE USUALLY SCHEDULED THE SUNDAY IMMEDIATELY FOLLOWING THE CLUB MEETING ..and as needed. We meet at MOTHER'S KITCHEN on PMt at 10:30am. Please bring a lunch, drinking water, & 5-10gal of water for our little tree seedlings."

NEXT WORK PARTY NOVEMBER 6th ..if the weather is ok.

SCHEDULED: grounding, site work, security work, new building work, brushing, etc. Contact W9FQN for info: 749-0276.

(10-6)#35: It was a Santa Anna day in San Diego Co. but a beautiful day on the mountain.

Dave-KC6YSO cut into 5 or 6 of the Heliac antenna runs and attached 3" ground straps: cut jacket, conductive paste, attach 3" copper strap with two stainless steel clamps, coat of black insulation tape, coax-seal (a gummy

plastic sticky material), more tape, and topped off with a coat of black (tar like which hardens) C cement. We hope this keeps out the moisture.

Art-KC6UQH worked on a control problem and soldered about six 3" copper ground straps coming from Heliac runs leaving the tower to the main grounding system surrounding the site. The job is only about 30% completed but about all we can do this winter season.

Bill-WB6MCU helped with the 224.38 repeater problems and did some work on the ATV repeater.

Several family groups banded together to paint the old block building, an aluminum shed, and the new repeater building an "interesting" color of green: Benton-KK6LX and wife Dorthy, Zac-KE6MQB and father, Dennis-KE6MQC, Larry-N6VDZ and Dorthy-KA6NNB. Larry and Dorthy have only been club members a week and were up at the site working. They will be in the San Diego area for the next several months and then they will travel to Florida to pick up their large sailboat (55' mast) and head for parts unknown.

All 1st time workers were given a tour of the repeater site.

Zac and Dennis also painted the roof of the new building with a special silver tar based paint and they finished painting the block building roof ..and were ground helpers for tower work.

George-KK6KD and Salvador-XE2UGF worked on the 224.38 repeater to again try to find out why the final amplifier was shutting down. Several unsoldered joints were found along with a possible feedline problem. Salvador also helped with the painting of the buildings.

Stan-W9FQN ended up at the top of the tower changing the 224.38 Heliac line, which was intermittent, over to a spare 9913 coax run. Everything now appears normal.

***** - HUMOR ? - *****

MARIO CUOMO VIRUS: It would be a great virus, but it refuses to run.

**Jennifer A. Thieme
KM6WG**

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- T H A N K F U L - AA60M

Thanksgiving day 1993 was a day to be thankful for the communications that only ham radio could provide. This is because cellular phones and other means of communication were not available and would not have been reliable in our remote location.

Thanksgiving tradition for our family has become a ritual spent in our motorhome, surrounded by family and friends at the sand dunes at Glamis, California. Every year Judie, my wife fixes turkey and all the trimmings, and usually my daughters invite a crowd of their teenage friends who are camping in the desert to share our sumptuous feast. Thanksgiving 1993 was a little different because we vividly remembered the previous Thanksgiving day, when we were the first on the scene of a major multi-injury accident in the campground and provided initial and continuing care because no ambulances were available. Our day's activities were a little subdued hoping we wouldn't encounter a repeat incident of the year before.

We bundled up for the cool ride, donning long johns, sweaters and ski jackets. The night was crisp and clear, the air was cool, and the dunes were very rough from a full week of all terrain vehicle travel. The ride over was fun, twisting through the dunes, cresting razorbacks and experiencing the thrill of only being able to see the area illuminated by the lights immediately in front of the buggy.

At the "hill" we parked and watched the mania of twenty to fifty sand toys going up and down the hill all at the same time. With bon fires scattered around the base of the hill and watching the headlights, taillights, and whiplights racing up and down the hill, the area looked more like something out of Star Wars, than common, everyday folks out to have a good weekend. Surrealistic is the best way to describe the feeling of being at

competition hill on a busy night. Somewhere around midnight, we decided that it had been a very long, very tiring day and headed home through the dunes.

Again we twisted and turned through the dunes, crested the razorbacks and snaked through the valleys. The roar of engines attested to the fact that they were not stock. Leaning back, I crested a 150 foot sand wall and came upon a buggy that had broken down so we stopped to lend a hand. The rest of the group had stopped at the bottom of the sand wall, and Nikki drove the buggy down to find out what happened. Just a few minutes later, she rode up to me and said that some people had come by and reported a serious injury accident about 1,000 feet to the north east. As Nikki is first aid trained, and I am an Emergency Medical Technician, we dropped what we were doing and went to see what help we could render.

We found a dune buggy upside down and two people lying on the sand under it. An initial survey of the victims revealed that both had severe fractures of the lower legs, possible head injuries, and were suffering from shock. We were miles from any help, centrally located in the dune area, and easily accessible only by helicopter or dune buggy. I pulled out my handtalker and called "break," break" on the ECRA desert frequency 147.24. My call was immediately answered by a base station. I explained our situation and location as best I knew it. I asked him to call the BLM (Bureau of Land Management) and/or Imperial Valley Sheriff's Office. Throughout this time, I was trying to attend to the medical needs of the victims, and to communicate on the radio. Nikki and I traded off radio and first aid duties several times, especially when they would ask questions that she couldn't answer. Apparently there was much confusion over who to call, as what we really needed was to get the message to the Chilla Ranger Station so they could dispatch

their emergency response dune buggy to the scene for transport. Radio traffic was difficult, partly due to the use of a handitalki to a repeater over 50 miles away and additionally because it didn't seem to work well when I was trying to transmit from my position of rendering aid which was inside the frame of the buggy. I was torn between trying to take blood pressure readings and perform patient care and answering radio questions. Trying to tell them how to contact the right people and trying to describe our location with no land marks began to test my patience. While we had flashlights, everything else was totally black.

I keep the phone number of the ranger station in my watch, but I couldn't seem to push the right buttons and hold the flashlight to successfully get the number and give it to the base operators. At one point, it was suggested that I change to an alternate repeater frequency, but upon learning that it require a PL, I was convinced that I couldn't see well enough to program it in the dark. After what seemed like an hour, but was probably only 15 minutes, it became apparent that assistance would be a long time in coming, and I sent Nikki in our buggy with another buggy back to camp to get my backboard and more medical equipment.

We did learn that the victims had been lying in the sand for about two hours prior to our arrival and were having trouble maintaining adequate body heat. We covered them up with military "poncho liners" and "rescue blankets" that I carry, which seemed to help. I also learned that the second victim was a cancer patient who had been cautioned by her physician not to lose blood.

Almost an hour after our initial call for help, and having dispatched a team of all terrain vehicles to go to the ranger station, we learned that the ranger buggy was in-route and approaching our location. Again we were asked

over the radio for a better location, as they could not find us. We immediately sent additional vehicles to the peaks of surrounding dunes to hail them as they approached. As it turns out, we weren't able to see their emergency lights until they were almost upon us.

Upon arrival, the paramedic did a quick assessment of both patients and confirmed my opinion that we should package and transport victim #2 first. Until now, I had been reluctant to cut open any unnecessary clothing because of the chill factor, but the paramedic asked me to cut the clothing, assess the fracture, and splint it. Upon examining the wound, we found that it was 95% amputated, further confirming our decision to transport first. We promptly splinted and immobilized the victim on a backboard and loaded into the ranger buggy. Since the ranger buggy is only large enough to carry one litter at a time, we would have to wait at least an hour before it could return for victim #1.

We continued to monitor and assist the remaining victim, and eventually Nikki arrived with our backboard. Even by sending two buggies to make the return easier, they had gotten lost and had to go back to Oldsmobile Hill to get their bearings and return to the scene. By the time we got the leg splinted and patient secured to the backboard, we had a reasonably short wait for the return of the ranger buggy, and the second patient was transported without incident.

I'm not sure that I had an opportunity to thank the many hams who assisted us that night, but I would like to take this opportunity to do so now. Unfortunately it was too dark and I was too involved to remember or write down call signs. This incident exemplifies the reason that I got my "ticket" eight years ago, and demonstrates the importance of good communication and going prepared. Without the communications provided by ham

radio, these victims would have spent at least another hour laying in the sand waiting for the ranger buggy to arrive and transport them to the ambulance.

Rusty Massie, AA6OM

(Rusty is head of PARC's 2nd Saturday SANDARC VE Testing Program for the FCC at the Carlsbad Safety Center each month -Ed).

- A U C T I O N -

Loud, silent and otherwise

-- the humor is free --

Another great auction. There were over 142 in attendance. Profit to the club was \$365 as 276 items were offered for sale.

Thanks to Art who masterminded the whole affair and to Steve-WA6CDU for another superb job of auctioneering.

At the registration table handling tags, cards, and money were Jennifer-KM6WG (checks), Ron-WI6B (SOLD tags), Jo-KB6NMK & Terry-N6UZH (registration), and Ellen-N6UWV (recorder).

Runners were Rick-KC9LV, AJ-KB6NML, and John-KE6HZE.

Thanks to everyone for a profitable evening for those participating. Art says "THERE WILL BE DANCING GILS NEXT YEAR!"

V E T E S T I N G AA6OM

SEP.10: 10 2Bs, 24e1 &12Pass.

0->TECH: Karl Anthony, Roger Gurley, Dick Gunderson & Jon Jacob.

OTHER: Joel Reed(4b), Chuck Jaworski(3b), Tony Clark(2), & Hope Hassler(2).

VETEST: KB5MU WB6R WA6HYC KI6JM KE6VX.

OCT.6: 9 2Bs, 15e1 &13Pass.

ADV->EXTRA: Joel-KN6ZO.

TECH/GEN->ADV: Geo Tillery, Greg-WD6DUN.

0->TECH: Tom Lambert, Mike Zietlow & John Proctor.

OTHER: Leonardo-KE6JZO(3b), Roger Gurley(3b), & Frank-KE6IQV(3b).

VETEAM: WA6HYC KI6JM WB64 KE6VX AA6OM.

73, Rusty-AA6OM

***** PALBBS Cont de Pg2 *****

What you would see on your first contact with PALBBS: WELCOME! AS A NEW USER YOU WILL SEE THIS INFORMATION. NEXT TIME YOU CONNECT YOU WILL GO DIRECTLY TO THE BBS COMMAND PROMPT. PLEASE REGISTER AS REQUESTED BELOW. THE HOME BBS YOU GIVE MUST NOT BE A PERSONAL (BUILT INTO A TNC) BBS BUT RATHER A WELL KNOWN FULL SERVICE BBS THAT DOES MAIL FORWARDING. IF YOU HAVEN'T PICKED A HOME BBS YET, YOU ARE WELCOME TO USE THIS ONE. JUST ENTER ITS CALL WITH THE "NH" COMMAND.

THE "N" COMMAND CAN BE USED TO REGISTER YOUR NAME OR QTH. YOU SHOULD ENTER BOTH OF THESE. TO ENTER YOUR NAME TYPE "N YOURNAME". EXAMPLE: "N MIKE". TO ENTER YOU QTH, USE THE COMMAND "NQ YOURQTH". EXAMPLES: "NZ 44026" or "NC 1A2B34".

TO ENTER THE PRIMARY BBS THAT YOU LOOK FOR YOUR MAIL ON USE "NH CALLSIGN". IF MAIL ARRIVES FOR YOU ON THIS BBS IT WILL AUTOMATICALLY BE SENT TO THE CALL YOU GIVE FOR YOUR HOME BBS (ASSUMING THIS SYSTEM KNOWS HOW TO FORWARD THERE!). YOU MAY USE THE CALL OF THIS BBS AS YOUR HOME BBS IF YOU SO DESIRE. GIVEN BBS MUST BE A CALLSIGN NOT AN ALIAS. EXAMPLE: "NH W6NW6".

PLEASE USE THESE COMMANDS TO ENTER THIS INFORMATION NOW IF YOU HAVE NOT ALREADY DONE SO. THANKS!

Some of the commands available on PALBBS are:

| | |
|------------------|-------------------|
| B-Bye | C-Conference |
| D-Download | G-File search |
| H-Help | I-Information |
| J-Calls heard | K-Kill message |
| L-List messages | M-Msg of the day |
| N-Enter name/qth | P-Path to call |
| R-Read msg | S-Send msg |
| T-Talk to SYSOP | U-Current users |
| V-BBS Version | W-List files dir |
| X-Set options | Y-YAPP |
| *-Comment line | ?x-Info abt cmd x |

More next month when we visit with our PAL at KD6CDH's QTH. -SK-

***** - HUMOR ? - *****
FREUDIAN VIRUS: Your computer becomes obsessed with marrying its own motherboard.

ATV NEWS

We've been experimenting with methods to link Santiago Peak with Palomar. We now have facilities for reception of Santiago Peak ATV and satellite transmissions from NASA, including the shuttle flights, in Serra Mesa at the W6GIC master control site. Both Santiago Peak ATV and NASA signals have been successfully routed via a microwave studio transmitter link from Serra Mesa to Palomar during testing.

Our microwave transmitter failed after 14 days of continuous use and has been returned to the manufacturer under warranty service. The manufacturer has informed us that the failure was not unique, and that they are re-engineering the transmitter at no cost to us with an approximate delivery date of mid-December.

Meanwhile, we are continuing to build the Palomar to Santiago trunking and the 70 cm alternate ATV input systems. We have built provisions for an FM ATV input on 919 Mhz. This is in addition to our current 919 AM input. This will be enabled when the manufacturer, Spectrum International, delivers the receiver input filter - approximately in mid-November.

Meanwhile, we are enjoying ATV contacts with amateurs in San Diego, Oceanside, Encinitas, Poway, Valley Center and Escondido, as well as amateurs in the Los Angeles basin.

For those wishing to get on ATV, our club member, Gene Swiech, WB9COY, sells PC Electronics ATV equipment at reasonable prices to club members. Gene's evening phone number is (619) 748-2286. ATV equipment can also be purchased from Henry Radio in Los Angeles.

-Bill Smith, KB6MCU

A DXpedition to Mexico

Marvin, WB6PKK, his wife Sherry, Ellen, N6UWW; Jo, KB6NMK; and Gayle, KM6WF had a fun day south of the border doing communications for the Rosarita to Ensenada Bike Ride (Sept. 24) with the Baja Am. Radio Racing Association (BARRA). We met our fearless leader, Bob Ward, WB6WTE and some of the other hams at Instant One Insurance and collected the paperwork for our temporary XE2/ licenses before crossing the border and caravanning via the free road to La Mission for breakfast. En route, the excitement increased as we saw more and more carloads of cyclists headed for the starting line. Two hours before the start the streets of Rosarita were already packed with anxious riders.

After breakfast we went inland following the route of the ride and Ellen honked her car horn in Morse code as we passed other hams she knew at various rest stops and danger zones. Marvin and Sherry staffed water stop #3 and Ellen, Gayle and Jo were positioned at the "Shrine" a rocky turnout by a hairpin bend on a steep hill. Gayle cleaned up and lit all the candles in the shrine then helped Jo and Ellen put up a shade canopy and picnic table. We put up Ellen's J-pole and used her 50 watt mobile to get our signal out of the canyon to the next station, as well as each carrying our ht's in case we had to run to assist a cyclist. Luckily we had no accidents at our location. Our first problem was a young lady with a flat tire, her companion had her equipment and was ahead of her. We kept her out by the road and yelled at the other cyclists as they went by to ask if anyone could fix a flat. Pretty soon a "hardbody" in lycra stopped and found and patched the hole for her. She offered to buy him a beer at the after ride party in Ensenada and they went off down the road together with Gayle shouting after them "Invite us to the wedding!" By this time we had several more people changing inner tubes and fixing flats and one guy with his pedal in his hand - the shaft had broken off and even going down hill it's hard to ride a bike with only one pedal. We had a nice picnic and plenty of cold drinks and stayed on site till released by net control when we proceeded to Ensenada to meet Marvin and Sherry for margaritas.

Then it was back north to El Pescadero where Harry and Marlene Enmark put on a fabulous Mexican feast (complete with margaritas poured from a 5 gallon jug) at their vacation home for all the hams that helped. On the way home we stopped at Renee's for socializing and some dancing. There one of the hams bought all the women roses. By the time we reached the border Gayle was sound asleep, someone in the car in front of us paid a street vender for some roses which he delivered to us for Gayle to 'put in her gaping mouth'. Bet she had some explaining to do when she came home with two bunches of roses!

All in all, we had a great day. BARRA's next event is Nov 10-12th, the Baja 1000 off road race. Anyone interested can contact Ellen or Marvin or Bob Ward, WB6WTE, PO Box 290519 Phelan, CA 92329-0519 or Packet WB6WTE@W6JBT.#SOCA.CA.USA.NA

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 |

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.

***** OCT. SCOPE FOLD/STAPLE *****
Editor: Stan-W9FQN 30311 Circle R Ln
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KB6YHZ, . Art Nye, . Folding
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SAN DIEGO, . Dennis-N6KI, 271.6079
SAN MARCOS, (VE) Rusty-AA6OM, 747.5872
VISTA, . . . Jack-KI6JM, 598.0420

Prospective amateurs ONLY can call
1-800-32-NEW-HAM @ the ARRL Hdq
8am-5pm ET M-F for Ham Info.

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| Palomar Mountain | | | | | |
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SCOPE-DEC 94

CLUB MTG MED DEC. 7th, 1930 Hr., CARLSBAD SAFETY CENTER, CARLSBAD

Pg. 1

| | | | | | | | | | | | | | | | | | | | |
|---|---|--|---|---|--|---|--|--|---|--|--|---|---|---|--|---|--|---|---|
| WB0BMY
.NOCPS
.NOEVV
.NODFX
.NONSU
.WBOYCO
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789-9706
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458-1620
722-5394
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92065
92065
92106
92106
92057
02840 | KE6AFI
WD6AHW
WD6AHX
WB6AKM
KD6AKT
.N6ALA
.N6AMD | CINDY B.
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ESCONDIDO | 83350
92028
92008
92122
92057
92027
92025 | WB6CJH
KE6CJS
AB6CK.
.N6CKQ
KD6CKR
KD6CKT
WH6CMS | STEVE
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741-7360
480-1838
755-9179
675-9624
673-8715
466-0997 | SAN DIEGO
ESCONDIDO
ESCONDIDO
SOLANA BEAC
SAN DIEGO
SAN DIEGO
LEMON GROVE | 92103
92027
92025
92075
92128
92128
91945 | KD6EBY
KE6ECA
KD6ECD
KD6ECE
KE6EDC
KE6EDR
KE6EDS | DAVID A.
DONALD
BARBARA
BETH
OSCAR
LARRY
LARRY | 749-2907
223-0283
742-1573
742-1573
967-1336
967-1336 | VALLEY CENT
SAN DIEGO
PALOMAR MOU
PALOMAR MOU
POWAY
OCEANSIDE
OCEANSIDE | 92082
92106
92060
92060
92064
92054
92054 |
| WB1DSJ
WAT1WN
KUI1Y
WATZEN
WB2A.
.N2BV.
.N2DCA | BOB
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794-5880
945-6511
469-7357
634-1620
566-8520
630-2800 | SAN DIEGO
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VISTA
SAN DIEGO
SAN DIEGO
SAN DIEGO
OCEANSIDE | 92108
92130
92083
92119
92104
92126
92056 | KB6AQS
KE6ARQ
KE6ARW
KD6ASH
KE6ASP
KC6AST
WA6AUK | GEORGE A.
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274-4514
578-8804
459-3126
279-7926
788-1408
749-2969 | SAN DIEGO
SAN DIEGO
SAN DIEGO
LA JOLLA
SAN DIEGO
RAMONA
VALLEY CENT | 92117
92109
92131
92037
92111
92065
92082 | .W6CN.
KH6CN.
KD6CNH
.N6COU
K16CP.
.K6CPF
K6BCPZ | ROBERT
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945-6561
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731-3083 | FALLBROOK
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OCEANSIDE
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FALLBROOK | 92028
92117
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92057
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92028 | AA6EE.
KD6EFQ
KE6EJF
KE6EJG
KE6EKX
KE6EYK
.N6ELP | DUANE
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723-0163
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789-5188
728-6906
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OCEANSIDE
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FALLBROOK
ENCINITAS | 92065
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| WB2DZH
VE2EO.
WA2GMY
.W2LUK
.W2MRM
KB2RVJ
XE2TRO | DAVID S.
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POWAY
SAN DIEGO
SAN DIEGO
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92069
92127
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92107
91911 | WB6AXW
KY6B..
W16B..
.N6BA.
.W6BAW
KE6BBX
KD6BCU | JACK
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592-9306
756-3133
729-2639
941-3283
743-9984
729-2145 | SAN DIEGO
SAN DIEGO
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CARLSBAD
OCEANSIDE
ESCONDIDO
CARLSBAD | 92117
92127
92067
92008
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92008 | KG6CQ.
WB6CQA
KD6CR.
WB6CSH
KE6CSR
KD6CT.
.K6CV. | CHAS D "CHUC"
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224-7103
484-7035 | CARLSBAD
VISTA
ESCONDIDO
FORT BRAGG
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92083
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KE6EMR
KD6ENB
KE6EOT
KE6EPL
KB6EPO
.W6EPW | JOE
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385-4457
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OCEANSIDE
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FALLBROOK
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IMPERIAL BE
SAN DIEGO | 92008
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92107 |
| XE2UGF
WT2Y..
.W3ARJ
.K3DLK
.K3FWT
WA3JHC
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CARLSBAD
SAN DIEGO
SAN DIEGO
VISTA
ESCONDIDO | 91911
92008
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92025 | WB6BCX
KM6BE.
WA6BEJ
KD6BFO
KE6BGI
KE6BH.
KC6BJM | CLIFF
STANLEY
THEODORE "TE"
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438-0540
944-0639
560-6109
433-7018
757-2520
755-5244 | RANCHO LA C
CARLSBAD
ENCINITAS
SAN DIEGO
OCEANSIDE
OCEANSIDE
DEL MAR | 92009
92009
92024
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92014 | AH6CW.
KD6CWI
KE6CJO
KD6CYH
KM6DC.
KD6DCE
KM6DD. | PHILIP R.
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481-5141
632-7726
748-3608
755-2112
792-2838 | SAN DIEGO
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RNCHO ST FE
CARLSBAD
POWAY
SOLANA BEAC
DEL MAR | 92114
92064
92067
92009
92064
92075
92014 | .K6ERW
WA6ESG
WA6EUF
KE6EUM
NH6EW.
.W6EYP
KE6EZZ | CHAS. G.
ED
NICK
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894-2180
945-7391
744-5097
695-9099 | SPRING VALL
VISTA
CARLSBAD
ESCONDIDO
OCEANSIDE
SAN MARCOS
SAN DIEGO | 91977
92083
92009
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92131 |
| .N3OV8
W3P3.
KE3PXX
WA3WOO
KA3ZYN
KA3ZYP
.W4NYU | WEICHYUN
WILLIAM T.
TERRY
JAMES
CARLOS
DON
HOWARD W. | 458-6889
944-0198
726-0595
727-0636
483-4069
490-2332
363-7196 | SAN DIEGO
CARLSBAD
VISTA
SAN MARCOS
SAN DIEGO
SAN DIEGO
LAS VEGAS | 92122
92009
92083
92069
92109
92109
89117 | WD6BKC
WB6BKR
KM6BN.
KD6BR.
WB6BRF
WD6BRX
KE6BSV | WILLIAM BILL
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PAUL V.
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454-4833
278-5345
224-7103
745-8070
757-8381 | RAMONA
LA JOLLA
SAN DIEGO
SAN DIEGO
ENCINITAS
ESCONDIDO
OCEANSIDE | 92065
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92025
92057 | KE6DZF
KE6DEJ
KE6DFA
KE6DFB
KE6DFV
KE6DHP
KD6DKA | ROB
JOHN
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V. L.
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535-1661
758-5820
487-4249
745-1153
721-4412
753-8894 | LA JOLLA
SAN DIEGO
VISTA
SAN DIEGO
ESCONDIDO
OCEANSIDE
CARDIFF | 92037
92122
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92127
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92007 | .N6FDT
KD6FEU
KD6FGG
WD6FGN
KB6FHO
KE6FHS
KE6FIJ | GAY
CHARLES
ARMAND
DONALD
EDYTHE
JOEL
EDWARD | 940-9212
765-0389
757-2182
741-9499
459-1431
728-3589
743-8192 | VISTA
JULIAN
OCEANSIDE
ESCONDIDO
LA JOLLA
FALLBROOK
ESCONDIDO | 92083
92036
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92027
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92027 |
| AB4PG.
W4RVE
KD4UFD
W4UWX
WB4YQU
WA5BNH
KA5ECR | WM. S. "BILL"
STEVE
THOMAS
KEVIN
SAMUEL
LEON
JOHN | 736-8847
534-2495
523-0118
789-7026
726-2003
489-8658
529-3212 | DELAND
LA JOLLA
CHESAPEAKE
RAMONA
VISTA
ESCONDIDO
SAN DIEGO | 32720
92093
23321
92065
92084
92026
92168 | KO6BT.
KE6BUA
KE6BUB
KE6BUE
KE6BWL
KE6BXH
KE6BZH | DUANE
JOHN N
EUGENE
IONA B.
BARBARA
RAMON
RON | 578-4369
753-5860
753-2009
478-0973
749-6191
630-5642
749-6191 | SAN DIEGO
ENCINITAS
LEUCADIA
CHULA VISTA
ESCONDIDO
VISTA
ESCONDIDO | 92131
92024
92024
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92026
92083
92026 | KD6DKI
KD6DKM
KD6DLN
KE6DLO
KE6DMC
KD6DO.
WA6DOC | LEE
DANIEL
STAN
JOSHUA
ROBERT
GENE
MARK | 480-7849
469-8752
528-9764
487-3597
945-1367 | EL CAJON
ESCONDIDO
CHULA VISTA
SPRING VALL
FULLERTON
POWAY
OCEANSIDE | 92019
92027
91910
91977
92631
92064
92057 | KE6FIL
KD6FKH
KD6FKM
KD6FKN
KD6FKP
AC6FM.
.N6FMK | DONNA
DON
JOHN
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BILL | 430-8590
434-1937
658-3510
721-3644
475-4469
486-0655
941-9492 | OCEANSIDE
CARLSBAD
RAMONA
OCEANSIDE
SPRING VALL
POWAY
VISTA | 92054
92008
92065
92054
91977
92064
92084 |
| .NSHTC
.NSMCJ
KB5MJ.
.N5NLV
KA5OL.
.N5OLG
KJ5OQ. | CHARLES E.
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BRUCE | 273-0406
282-5612
571-8585
273-0406
944-7373
931-0902 | LA JOLLA
F
SAN DIEGO
LA JOLLA
FALLBROOK
CARLSBAD
ESCONDIDO | 92037
96674
92117
92037
92028
92009
92027 | KE6BZK
KE6BZM
WD6BZP
KF6C..
KG6CA.
KE6CBE
KE6CBK | DUANE
JUDY
LIEF
BRIAN
RAYMOND
ANDY
EMILY | 465-1173
280-1783
223-4983
739-8133
728-3179
698-6854
753-2009 | SAN DIEGO
SAN DIEGO
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SAN MARCOS
FALLBROOK
SAN DIEGO
ENCINITAS | 92119
92108
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WD6DRA
WD6DRJ
KE6DSH
KE6DSJ
KE6DSM
KE6DUE | PATRICIA
DAVE
DAVID
ERIC
DANNY
STELLY
JIM | 789-1070
452-0224
472-4068
482-9799
674-4374
476-1637
471-9253 | RAMONA
SAN DIEGO
SAN DIEGO
BONITA
SAN DIEGO
CHULA VISTA
SAN MARCOS | 92065
92122
92129
91902
92128
91910
92069 | KAGFPS
KN6FQ.
KD6FQS
KD6FQW
KE6FRV
KE6FRX
.N6FSQ | BARBARA
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RONALD L.
WILLIAM
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RITA | 749-0276
632-9177
273-1986
743-1623
280-0359 | VALLEY CENT
ENCINITAS
SAN DIEGO
SAN DIEGO
ESCONDIDO
SAN DIEGO
VALLEY CENT | 92082
92024
92109
92131
92029
92108
92082 |
| WA5U2M
KA6AAG
KN6AB.
KD6ADI
.N6AFB
KE6AFG
KE6AFH | BOB W.
CHERYL
WM. (BILL)
JASON
BOB
CHARLES
BING | 282-1503
272-3578
756-1579
738-1170
284-0070
549-0652
941-1800 | WICHITA FAL
SAN DIEGO
RANCHO SANT
ESCONDIDO
SAN DIEGO
SAN DIEGO
OCEANSIDE | 76310
92117
92067
92046
92104
92126
92056 | KK6CD.
KE6CDH
KE6CDJ
KE6CDM
KE6CDM
W6CGY
WH6CH. | BRUCE E.
JOHN J
CHUCK
NANCY
PETER
LEROY
MIKE | 489-5769
480-9418
489-1818
489-1818
272-6464
731-5228 | ESCONDIDO
OCEANSIDE
SAN MARCOS
ESCONDIDO
ESCONDIDO
SAN DIEGO
BOULDER CIT | 92029
92057
92069
92046
92046
92117
89005 | KE6DUO
.N6DUR
W6DYZ
.N6DWF
KA6DXH
W6DYY
AC6EA. | JIM
ROBERT G.
JIM
CHARLES
ARTHUR
JOHN B. "JAC"
STEVEN | 433-6021
273-0789
630-4386
942-4294
722-5300
728-7243
430-8590 | OCEANSIDE
SAN DIEGO
VISTA
ENCINITAS
SAN LUIS RE
FALLBROOK
OCEANSIDE | 92054
92117
92084
92024
92068
92028
92054 | KE6FST
W6FTV
W6FWE
.W6FXL
KE6FXM
KD6FY.
KE6FYD | KENNETH
EDWARD L.
DON J.
ALBERT
DEXTER
SCOTT P.
THOMAS H. | 224-3045
728-2729
745-4436
571-1043
487-7005
440-5318 | SAN DIEGO
FALLBROOK
VISTA
ESCONDIDO
SAN DIEGO
SAN DIEGO
EL CAJON | 92106
92028
92083
92025
92124
92128
92021 |

KE6FYE DAVE 447-4834 EL CAJON 92021
 .N6FYJ L.W. 745-0986 ESCONDIDO 92027
 .N6FYK DONALD R. 598-3794 VISTA 92083
 KD6FZQ DIANNE 467-6730 SAN DIEGO 92129
 WD6FZX RAYMOND 274-0808 SAN DIEGO 92109
 WAG6AH GEORGE 697-8149 SAN DIEGO 92119
 KI6GD. GLENN 633-1915 CARLSBAD 92009

.N6GDT NANCY 576-0651 SAN DIEGO 92124
 KD6GFK CHRIS 723-3486 FALBROOK 92028
 .N6GFF JANET 727-4078 VISTA 92084
 KE6GGP ERNIE 746-3901 ESCONDIDO 92027
 WAG6GS JACK 487-5298 SAN DIEGO 92128
 .N6GHD RICHARD 224-9300 SAN DIEGO 92107
 KAG6HE JUDITH 581-2628 SAN DIEGO 92117

WD6GIA JOHANNES 726-5888 OCEANSIDE 92056
 .N6GIC SYBIL 278-4284 SAN DIEGO 92123
 WD6GIV JIM 789-6479 RAMONA 92065
 KD6GLF JAMES 672-8950 SAN DIEGO 92127
 KD6GMJ JEFF 480-6392 SAN DIEGO 92129
 KD6GKJ RUSS 538-2445 SAN DIEGO 92129
 KD6GMS KYLE 433-4620 OCEANSIDE 92056

KF6GN LARRY 679-1240 POWAY 92064
 KD6GNA GERRY 272-3642 SAN DIEGO 92117
 .N6GNB ALBERT U. 741-1840 ESCONDIDO 92027
 KK6GO FORREST E. 224-8948 SAN DIEGO 92106
 WAG6PW NICK 754-2469 OCEANSIDE 92056
 KAG6RG CHUCK 726-2612 VISTA 92084
 KE6GSH JAY 728-6973 FALBROOK 92028

KE6GSI STEVE 759-0630 ENCINITAS 92024
 KE6GSJ SAUL 943-9434 ENCINITAS 92024
 KE6GSK LORIE 744-6257 VISTA 92085
 .N6GVN LYLE C. 756-2331 RANCHO SANT 92067
 KE6GVN LYELL C. 756-2331 RANCHO SANT 92067
 .N6GVN LYELL C. 756-2331 RANCHO SANT 92067
 KE6GWN LAWRENCE 748-0506 SAN DIEGO 92128
 .N6GWN LAWRENCE 748-0506 SAN DIEGO 92128
 KE6GXP STEVEN L. 420-0910 CHULA VISTA 91911

KE6GXQ DOUG 275-3317 SAN DIEGO 92109
 WD6GXR WILLERT 561-2211 LAKESIDE 92040
 KE6GXT RICK 444-4862 EL CAJON 92021
 WAG6YG ROBERT 92084
 .N6GZI ED 297-7758 SAN DIEGO 92116
 .K6HAV RALPH 328-2318 SALT LAKE C 84103
 .W6HC. CHARLES 272-9778 SAN DIEGO 92117

.N6HCD A. NASH 940-1028 BONSALL 92003
 .K6HE. JAMES W. 745-6940 ESCONDIDO 92025
 WD6HFE FRANK B. 757-9365 OCEANSIDE 92057
 WD6HFI PHILLIPP B. 724-4736 VISTA 92084
 WD6HVV MIKE 566-3799 SAN DIEGO 92126
 KE6HJ ALMA J. 753-2542 CARDIFF BY 92007
 KE6HIB ROBERT 945-3626 OCEANSIDE 92056

.N6HLB JOE 757-1272 OCEANSIDE 92054
 .N6HLY CARL LEWIS 487-8272 SAN DIEGO 92129
 KD6HPY BAYARD 263-6672 CHULA VISTA 91913
 WD6HPV MICHAEL 739-9980 ESCONDIDO 92027
 WAG6HM DAVE 753-2605 ENCINITAS 92024
 KE6HRL TOM 741-1364 ESCONDIDO 92025
 KD6HTC GEORGE 944-1962 ENCINITAS 92024

KC6HTZ WILLIAM J. 587-1201 LA JOLLA 92037
 .N6HV. ROBERTS 756-2973 RANCHO SANT 92067
 KD6HVN DONALD 489-5250 SAN MARCOS 92069
 KD6HVO MICHAEL 739-0218 ESCONDIDO 92026
 .N6HW. VERN 93030
 WAGHY8 DANIEL C. 433-4445 OCEANSIDE 92057
 WAGHYC WM. D. "BILL 439-8814 OCEANSIDE 92054

KE6HZC SUSAN 422-7282 CHULA VISTA 91910
 KE6HZC JOHN 281-3924 SAN DIEGO 92116
 KE6HZF DENNIS 422-7282 CHULA VISTA 91910
 .N6IAP JAMES 462-2705 SAN DIEGO 92119
 KD6IAX JOHN 720-0587 OCEANSIDE 92057
 .K6ICG EDWARD 582-7318 SAN DIEGO 92120
 .N6ICH THOMAS F. 433-7600 OCEANSIDE 92057

.N6ICN ROBERT P. 944-9135 ENCINITAS 92024
 .N6IE. FELIX 277-8587 SAN DIEGO 92111
 KE6IEW CRAIG 92106
 .K6IIL EDWARD A. 726-4333 VISTA 92084
 KE6IJG DICK 728-8196 FALBROOK 92028
 KK6IL. JOHN 789-6015 RAMONA 92065
 KE6ILP BILL 753-2378 OLIVENHAIN 92024

KI6IM. VICTOR 753-7972 OLIVENHAIN 92024
 .N6IMI ARTHUR R. 273-1120 SAN DIEGO 92117
 .N6IMN PAT 328-2318 SALT LAKE C 84103
 .N6IOV RUSSELL A. 436-6714 CARLSBAD 92009
 .N6IPI MICHAEL L. 743-9539 ESCONDIDO 92027
 WAGIPF PAUL J. 726-5007 VISTA 92083
 KD6IQ ERIC 981-1927 OCEANSIDE 92056

WB6IQS JOHN 727-3876 VISTA 92083
 AH6IR. RICHARD 727-2484 SAN MARCOS 92069
 .N6IRM CHAS. C "CHUC 722-2201 OCEANSIDE 92054
 .N6ISC PAUL 727-8777 SAN MARCOS 92069
 AB6IU. RICHARD 942-5497 CARLSBAD 92009
 .N6IUG RICHARD O. 566-7089 SAN DIEGO 92131
 KD6IUQ JAMES JR 421-2488 CHULA VISTA 91911

KD6IVF JIM 757-5671 OCEANSIDE 92057
 WAGIWK HERBERT O. 581-2628 SAN DIEGO 92117
 KE6IX. JOHN 222-4269 SAN DIEGO 92107
 .N6IXN JACK 438-4107 CARLSBAD 92009
 KD6IYI MARIA 480-7849 ESCONDIDO 92027
 KD6IYX JOSE ALFREDO 746-7060 ESCONDIDO 92027
 .N6IZW KERRY 462-2220 LA MESA 91942

NC6J. ROBERT A BOB 560-4560 SAN DIEGO 92111
 KG6JA. PETER 729-8408 SAN MARCOS 92079
 .N6JJC. RAY 690-2840 SAN DIEGO 92154
 KE6JDR TIM 583-1604 SAN DIEGO 92115
 KK6JG. JOHNNY 739-0943 ESCONDIDO 92025
 KE6JGG RUBEN 233-5752 SAN DIEGO 92113
 KE6JGJ TODD 292-1545 SAN DIEGO 92124

KE6JGK STEVEN 562-6928 EL CAJON 92021
 KE6JGM ROBERT 433-8943 OCEANSIDE 92057
 .N6JHR SAM J. 487-2502 SAN DIEGO 92128
 KD6JTI CHUCK 789-4792 RAMONA 92065
 KD6JXK ARTHUR "BUD" 654-2699 PRESCOTT 86301
 .N6JLU DONALD I 436-8829 CARLSBAD 92123
 KI6JM. JACK E. 598-0420 VISTA 92084

KE6JNB KENNETH 471-8600 SAN MARCOS 92079
 KE6JOI JOHN 433-4529 OCEANSIDE 92054
 KE6JJO MARIO 731-7496 FALLBROOK 92028
 KD6JPH CALVIN 90808
 KD6JPN E.R. (BOB) 453-5147 SAN DIEGO 92122
 KD6JPO JOHN 746-9255 ESCONDIDO 92025
 KD6JPP DAVE 225-0661 SAN DIEGO 92106

.K6JQE PETE 755-4838 SOLANA BEAC 92075
 KE6JQL CARL B 565-8130 SAN DIEGO 92123
 .N6JRL WALT 722-3248 OCEANSIDE 92054
 .N6JSP FLOYD 741-8391 SAN MARCOS 92069
 WB6JVS HARRY A. 943-0833 CARLSBAD 92008
 WAGJXE DON S. 566-2561 LA COSTA 92009
 KD6JXM JONATHAN 566-2561 SAN DIEGO 92126

KD6JXO FRANK 445-2696 ALPINE 91903
 KD6JXR TOM 561-9545 EL CAJON 92021
 KD6JXW CLINTON 758-3312 VISTA 92084
 KD6JXX WARREN 721-8727 OCEANSIDE 92056
 KD6JYJ RICHARD PAUL 727-6180 VISTA 92085
 KK6K. RUF 284-0794 SAN DIEGO 92105
 WN6K. PAUL E 726-5301 VISTA 92084

KD6KBA MARK 593-8978 EL CAJON 92020
 .N6KBC HARLAN 279-1316 SAN DIEGO 92123
 .N6KC. RICHARD C. 272-2257 SAN DIEGO 92117
 .N6KID. JORGE 425-5011 CHULA VISTA 91911
 KE6KOP NGOC 758-7488 OCEANSIDE 92056
 KD6KHU RICHARD 724-9569 OCEANSIDE 92057
 .N6KI. DENNIS 271-6079 SAN DIEGO 92126

KD6KIR LEON 743-7846 ESCONDIDO 92026
 KD6KLZ DAVID 940-8009 OCEANSIDE 92056
 KE6KKN CHRISTOPHER 693-1139 SAN DIEGO 92126
 KE6KNP CURT 746-6015 ESCONDIDO 92027
 KI6KP. CLINT 721-7372 OCEANSIDE 92056
 KM6KQ. THOMAS (TOM) 753-8894 CARDIFF 92007
 KD6KQJ CONRAD 789-6867 RAMONA 92065

KE6KTC SABRINA 693-1139 SAN DIEGO 92126
 .N6KTE R.F. 941-3555 VISTA 92083
 WB6KUZ ROBERT 538-1548 SAN DIEGO 92129
 .N6KVN MARY K. 745-6287 ESCONDIDO 92025
 .N6KVO MARVIN 745-7196 ESCONDIDO 92025
 .N6KVV DENNIS 745-7196 SAN DIEGO 92124
 KD6KXH RICHARD 584-4743 SAN DIEGO 92110

WAGKZN ROBERT L. 324-2955 CATHEDRAL C 92234
 NU6L. JOSEPH P 749-2699 VALLEY CENT 92082
 WF6L. PHIL 757-7008 OCEANSIDE 92056
 KE6LBZ MICHAEL 746-6227 ESCONDIDO 92025
 .K6LCK RAY 749-2179 VALLEY CTR 92082
 .N6LCT LARRY 724-9996 VISTA 92084
 KE6LCV JOHN 247-0655 SAN DIEGO 92123

KD6LDE MICHAEL 788-1824 RAMONA 92065
 KD6LDI JOHN 729-6060 CARLSBAD 92008
 WB6LEH JAMES P. 855-5811 LAKE HAVASU 86403
 KM6LF. CHAS E "CHUC 729-6019 CARLSBAD 92008
 KE6LGN DIRK 385-0530 OCEANSIDE 92054
 KE6LKE GEOFFREY 436-8829 CARLSBAD 92009
 .N6LKG GARY 586-1548 SAN DIEGO 92126

KE6LME PETER 566-7351 SAN DIEGO 92131
 .K6LNI ART 724-6155 OCEANSIDE 92056
 KD6LPO ARTHUR 272-1958 SAN DIEGO 92109
 KD6LQY DOUGLAS 679-6773 POWAY 92064
 KD6LRA VAN 457-9688 SAN DIEGO 92037
 KE6LSX BILL 740-0241 ESCONDIDO 92029
 KD6LUK MICHAEL 452-4811 CARLSBAD 92008

KD6LUN CATHLEEN 558-1540 SAN DIEGO 92126
 KD6LUO DENNY 729-5161 BONSALL 92003
 KK6LY. BENTON 439-9761 CARLSBAD 92008
 AB6LY. LARRY "SARGE 566-0252 OCEANSIDE 92057
 .K6LYL PHIL C. 423-6442 SAN DIEGO 92126
 KE6LZL STEVEN 423-6442 IMPERIAL BE 91932
 KE6LZM DOUGLAS E 423-6442 SAN DIEGO 92109

KD6LZN RAY 497-5922 CHULA VISTA 91912
 KE6LZS LOU 485-9759 POWAY 92064
 WH6MC. TED 721-6556 OCEANSIDE 92057
 KB6MCU BILL J. 582-2313 SAN DIEGO 92115
 WB6MEI JOHN 560-9549 SAN DIEGO 92123
 .K6MHZ WILLIAM L 746-9873 ESCONDIDO 92027
 WAGMHZ PATRICK 561-0052 EL CAJON 92021

.W6MK. C. MILTON "M 942-8747 CARLSBAD 92009
 KD6MKC JEFF M. 728-8220 FALBROOK 92028
 KD6MKH JOHN 745-9952 ESCONDIDO 92033
 .N6MLO GARY 723-3486 FALBROOK 92028
 .N6MLO JACK 728-7300 FALBROOK 92028
 WAGMOS JOE 729-1401 PALM DESERT 92211
 KE6MQD NEIL 455-5907 SAN DIEGO 92122

KD6MSQ STANLEY A. 433-5458 OCEANSIDE 92057
 KD6MTL ALANSON W. " 944-1276 ENCINITAS 92024
 WAGMUL ARTHUR B. 749-3458 ESCONDIDO 92026
 KD6MVA BILL 698-7162 SAN DIEGO 92114
 .N6MVC DAVID H. 453-2361 SAN DIEGO 92122
 KD6MVC DEBBIE 690-2840 SAN DIEGO 92154
 KCGMVG R. E. 224-6498 SAN DIEGO 92166

KMGMW. RONALD R. 753-9343 CARLSBAD 92009
 KE6MNA VICTOR 485-9727 SAN DIEGO 92127
 KE6MNB THEODORE 485-9727 SAN DIEGO 92127
 KE6MNC LOUIS 723-0884 FALBROOK 92028
 KB6MNH LEONARD C 729-1019 CARLSBAD 92008
 KCGMHJ E. J. 439-7056 OCEANSIDE 92054
 KCGMWR JOHN E. "TED 439-7056 OCEANSIDE 92054

KE6MYA DAVID 455-5907 SAN DIEGO 92122
 KE6MYE TERRY 423-7552 IMPERIAL BE 91932
 KE6MYG FRANK 279-0411 SAN DIEGO 92130
 KD6MYH JAMES 630-5119 OCEANSIDE 92057
 .N6MYN STEPHEN "DIC 630-5119 SANTA YSABE 92070
 .N6MYV GORDON 967-7847 OCEANSIDE 92057
 KJ6NA. TOM 743-4031 ESCONDIDO 92029

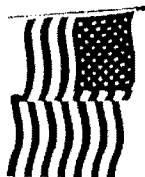
KE6NAP ROGER S. 438-3115 CARLSBAD 92009
 KE6NAQ KARL 591-0522 SAN MARCOS 92069
 .N6NAU BILL 748-6144 POWAY 92064
 .N6NAU TED 748-6144 CARLSBAD 92008
 WB6NBU BOB 693-4955 SAN DIEGO 92131
 AB6NC. BOB 480-0459 ESCONDIDO 92027
 KD6NDH MARTIN 692-5799 SAN DIEGO 92106

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|---|--|--|--|--|---|--|---|--|--|---|--|---|--|---|---|
| KAGNFI
WGNKB
KEGNLX
KGNLNY
KGNMWH
KBNMML
KBNMML | KNOX
MARCEL W.
CLARK
HERMAN W. (WE726-0576)
GARY
JO
A. J. | 743-8921
598-0422
591-0522
726-0576
741-2560
741-2560 | ESCONDIDO
VISTA
SAN MARCOS
VISTA
ESCONDIDO
ESCONDIDO
ESCONDIDO | 92029
92083
92069
92084
92027
92025
92025 | KD6PTZ
K6PUN
W6PVT
KM6PY.
KD6PZE
KC6QBD
KA6QBH | KENITH
DOUGLAS
BOB
WILBERT T. "
JOHN O.
RICHARD L. "D
L.J. | 746-5398
729-0239
749-1001
726-0367
382-7070
270-2892 | ESCONDIDO
CARLSBAD
VALLEY CENT
OCEANSIDE
BEAUMONT
LAS CRUCES
SAN DIEGO | 92027
92008
92082
92057
92223
88011
92117 | KD6SHS
KJ6SK.
W6SKI
W6BSML
W6SMW
KJ6SW.
KM6SN. | BENJAMIN
WALT T.
KENNETH
JOHN
JOHN
RICHARD G.
ROD | 667-0662
758-3276
431-7665
278-9442
756-0312
728-5795
943-7508 | SPRING VALL
VISTA
CARLSBAD
SAN DIEGO
RANCHO SANT
FALLBROOK
ENCINITAS | 91977
92083
92009
92123
92067
92028
92024 | .N6UFA
W6UGG
.N6UIA
W6UKL
.K6UL
AA6UQ.
KC6UQH | KELLY
WELSEY L.
STEVE
RICHARD
MITCHELL Z.
JACK
ART | 436-2197
747-7496
755-3398
274-1434
726-9758
741-8143 | ENCINITAS
VISTA
ESCONDIDO
SOLANA BEAC
SAN DIEGO
VISTA
ESCONDIDO | 92024
92084
92029
92075
92109
92084
92029 |
| WAGNMC
.NGNMI
WAGNPM
KBNRL
KKGNS.
WBGUV
.NGNWR | ROBERT
MARK M.
MICHAEL
FRED
PHILIP
JIM C.
BYRON W. "JA721-9042 | 724-2384
748-8391
272-3578
727-5429
273-0703
748-6546
741-9042 | VISTA
POWAY
SAN DIEGO
SAN MARCOS
SAN DIEGO
POWAY
OCEANSIDE | 92084
92064
92117
92069
92117
92064
92057 | WAG6BO
KB6OC
.W6OCA
W6QDB
.W6QED
KA6OFF
KB6QH. | RICHARD
BOB
LAWRENCE L.
SUSAN J.
DENNIS J.
MATT
ROBERT | 757-3734
634-1343
582-4324
727-1163
455-1728
724-6361
461-0124 | SAN LUIS RE
CARLSBAD
SAN DIEGO
VALLEY CENT
SAN DIEGO
VISTA
SAN DIEGO | 92068
92009
92120
92082
92122
92084
92119 | KD6SPB
.N6SWZ
KD6SKF
W6BSYV
KC6SZM
KD6SZO
KG6T.. | STEVEN
BOB
LARRY
NORMAN
CHRIS
L. R. (BUD)
TOM | 724-4532
741-7081
727-8974
453-2586
943-7870
746-3752
699-8646 | VISTA
ESCONDIDO
VISTA
SAN DIEGO
CARLSBAD
ESCONDIDO
TEMECULA | 92083
92029
92083
92122
92009
92029
92592 | .N6URW
WAGUTQ
AA6UJ.
.K6UV.
.N6UWW
.N6UWX
.N6UWY | JOHN E.
LARRY
VERNON LEE
F. KERNEIL
ELLEN E.
KATIE
LEX | 753-9545
758-5820
789-1070
295-4788
630-0950
484-4903
484-4903 | LEUCADIA
VISTA
RAMONA
SAN DIEGO
VISTA
SAN DIEGO
SAN DIEGO | 92024
92083
92065
92103
92083
92129
92129 |
| KD6NXA
K6GNXZ
K6GNZA
.NGNZX
KX60..
KD60BG
.W60DG | DON F
TOM
MARY
CARL W.
EVELYN
DAVID
AUBREY L. | 694-6544
789-6479
745-4077 | SAN DIEGO
SANTEE
ESCONDIDO
ESCONDIDO
RAMONA
SAN MARCOS
SAN MARCOS | 92130
92072
92027
92030
92065
92069
92069 | KF6QH.
KC6QHT
KC6QIF
.N6QJE
KC6QJR
KD6QK.
.K6QL. | JIM
JEAN
GEORGE
ELEANORE
BARRY L.
HARVEY
DAVE | 726-4022
578-4369
566-8887
729-0850
944-0753
292-7623
748-9661 | VISTA
SAN DIEGO
SAN DIEGO
CARLSBAD
CARLSBAD
SAN DIEGO
POWAY | 92084
92131
92131
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92009
92124
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K6GTAN
W6GTAW
W6GTBA
KD6BTY
.N6TCB
K6GTCL | AUBRA
GREG A.
ALF
R. R. "BOB"
CYNTHIA
JERRY A.
DIANNE | 742-3735
479-2300
941-2428
729-1976
789-5340
743-4212
487-5029 | PAUMA VALLE
SAN YSIDRO
OCEANSIDE
CARLSBAD
RAMONA
ESCONDIDO
POWAY | 92061
92173
92056
92008
92065
92029
92064 | KC6UZF
.N6UZH
.N6UZN
AC6V..
KD6VAN
.N6V8C
KC6VDX | LOGAN T
TERESA "TERR
JOSEPH
RODNEY R.
BOB
GEORGE
BOB | 549-8735
741-2560
426-0697
945-6050
431-5907
758-9078 | SAN DIEGO
POWAY
CHULA VISTA
OCEANSIDE
CARLSBAD
SAN DIEGO
VISTA | 92126
92064
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92126
92084 |
| KD60DJ
KD60OK
KC60HP
KD60JU
KD60JZ
.N60LE
KD60LL | SUSAN
BILL
DON
EDGARDO
ROBERT E.
IVAN
ALAN | 745-9952
698-7887
425-4924
480-6787
561-2852
940-9331 | ESCONDIDO
SAN DIEGO
LA MESA
CHULA VISTA
ESCONDIDO
EL CAJON
OCEANSIDE | 92033
92117
91942
91911
92029
92021
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.K6QOQ.
.N6QOF
WAG6QQ
AB6QT
KE6QV.
.N6QVW | JOHN
JOHN R.
NORMAN H.
BOB
MIKE
CHARLES
ORLANDO | 729-2156
742-8778
721-1653
723-2700
742-1573
433-1258
578-0427 | CARLSBAD
PALOMAR MOU
OCEANSIDE
FALLBROOK
PALOMAR MOU
OCEANSIDE
SAN DIEGO | 92008
92060
92057
92028
92060
92054
92126 | KD6TCP
.W6TDC
.N6TET
.W6TET
IVAN
LLOYD
C W "CHUCK"
RAYMOND G. " | ROB
LEE
CHARLES
IVAN
LLOYD
C W "CHUCK"
RAYMOND G. " | 481-2320
724-7460
471-0439
726-7148
757-9374
272-2166
729-2001 | SAN DIEGO
VISTA
SAN MARCOS
SAN DIEGO
OCEANSIDE
SAN DIEGO
CARLSBAD | 92130
92084
92069
92109
92057
92117
92008 | KC6VDY
.N6VDZ
KC6VDZ
KD6VFF
KD6VHI
KD6VLB
.N6VMY | GREG
LARRY
NIKKI
ALICE
MIKE
BRIAN
MERRILL | 276-4665
581-3864
747-5872
749-2699
749-8888
743-5499 | SAN DIEGO
SAN DIEGO
ESCONDIDO
VALLEY CENT
VALLEY CENT
VISTA
ESCONDIDO | 92117
92106
92026
92082
92082
92085
92025 |
| .W60LO
KA60LZ
AA6OM
KA6OMA
.W60ML
.N60PD
.N60PP | JOHN
JAMES T.
RUSTY
VESTA M.
RICHARD A.
JACK
BILL | 672-3891
434-1391
747-5872
434-1391
672-3871
434-2217
630-9002 | SAN DIEGO
CARLSBAD
ESCONDIDO
CARLSBAD
SUN CITY
CARLSBAD
OCEANSIDE | 92129
92088
92026
92008
92586
92008
92056 | KC6QXU
W6BR..
.N6RAO
.N6RBS
KD6REU
K16RF.
KD6RFJ | JOSEPH P.
DUANE J.
LOREEN
KEN
JAMES
JACK B.
MIKE | 749-8217
753-4821
756-3133
741-0040
444-0973
222-4209
724-0194 | VALLEY CENT
CARDIFF
RANCHO SANT
ESCONDIDO
EL CAJON
SAN DIEGO
OCEANSIDE | 92082
92007
92067
92029
92020
92107
92056 | W6BTHH
.W6THU
W6GTIL
W6BTJN
KH6TL
KD6TLF
KA6TNI | BILL
FLOYD A.
PAUL
BRYAN
WM. S. "SCOTTY"
JOHN T
ANTHONY | 789-4356
242-8961
630-1311
598-6323
727-8836
747-9431
758-3603 | RAMONA
GLENDALE
OCEANSIDE
TEMECULA
VISTA
ESCONDIDO
OCEANSIDE | 92065
91201
92056
92592
92084
92033
92056 | KD6VMZ
KD6VND
KC6VVG
KC6VVS
KC6VVT
KE6VX.
ND6W.. | ANDY
WILLIAM (BIL
ALLAN
CANDIDO
PAT
ROBERT
LOUIS | 753-4918
446-2472
598-5880
589-1425
691-0098
727-0606
437-8351 | CARDIFF
RIDGECREST
VISTA
SAN DIEGO
IMPERIAL BE
VISTA
CORONADO | 92007
93555
92083
92114
91933
92083
92118 |
| KN60Q.
KK60T.
KD60TK
.N60YG
W60YJ
KY6P.
KC6PAR | DENNING
BARRY J.
RODRIGO A
VICTOR
R. E. (ED)
ROBERT
DIANE | 753-2470
724-3551
298-4782
598-8772
453-4563
453-9446
742-1693 | CARDIFF
VISTA
SAN DIEGO
VISTA
SAN DIEGO
SAN DIEGO
PALOMAR MOU | 92007
92084
92103
92083
92122
92122
92060 | KD6RFM
KD6RFO
KD6RFQ
KD6RFR
KN6RG.
VE6RGP
.W6RGR | EMILIO
F. ANN
GERALD A.
JAIME
GORDON
RON
CHARLIE | 724-3353
722-5826
724-0160
433-5433
278-0594
693-1694
464-7890 | OCEANSIDE
OCEANSIDE
OCEANSIDE
OCEANSIDE
SAN DIEGO
SAN DIEGO
SAN DIEGO | 92056
92054
92057
92054
92111
92126
92119 | K6GTQ.
AA6TR.
.N6TUR
K66TV.
KD6TVG
KD6TVL
W6GTWY | WILLIAM H
MARK
LEO F.
NICHOLAS W.
SAMUEL
ADRIAN
ROY | 727-1580
944-0145
941-6756
745-7696
756-3269
941-8928
592-3080 | VISTA
SAN DIEGO
VISTA
ESCONDIDO
RANCHO SANT
VISTA
RAMONA | 92084
92101
92083
92027
92067
92084
92065 | KC6WAN
.N6WEF
.N6WEG
KM6WF.
KM6WG.
W6WGT
.K6WK. | RALPH E
FRANK G.
MARY LEE
GAYLE
JENNIFER
HARLAND "HAR
ZANE | 727-7415
745-2076
745-2076
599-1134
724-2111
586-7418 | SAN MARCOS
ESCONDIDO
ESCONDIDO
POWAY
VISTA
VISTA
SAN DIEGO | 92069
92033
92033
92020
92083
92083
92131 |
| KC6PAS
KD6PBH
KB6PCF
.N6PDZ
.N6PEA
WB6PKK
KB6PLH | JIM
J. S.
MARNI
FRED
MARY
MARVIN
NATHAN | 742-1693
693-0767
272-1409
726-2616
726-2616
747-2223
462-0289 | PALOMAR MOU
SAN DIEGO
SAN DIEGO
VISTA
VISTA
ESCONDIDO
LA MESA | 92060
92196
92117
92083
92083
92026
91942 | .N6RHS
.K6RRP
KC6RSF
KD6RSN
.N6RUV
.N6RVV
.W6RVV | PATRICIA
RAYMOND
MIKE
HERB
STEPHEN R.
JOSEPH F.
WAYNE A. | 753-4821
481-8469
727-4286
789-0450
422-4415
433-6885
724-0777 | CARDIFF
SOLANA BEAC
SAN MARCOS
RAMONA
CHULA VISTA
OCEANSIDE
VISTA | 92007
92075
92069
92065
92010
92057
92084 | KN6TX.
.W6TXK
KC6TAN
K66TYT
KC6TYU
KC6TYV
NG6U.. | DAVID
RONALD C.
BILL
PHILIP R.
GARY
ART
MITCH | 489-5302
566-1959
263-3752
944-7741
726-6636
726-6636
576-0651 | ESCONDIDO
SAN DIEGO
SAN DIEGO
CARLSBAD
VISTA
VISTA
SAN DIEGO | 92027
92131
92105
92009
92084
92084
92124 | KC6WMI
KC6WMI
KC6WPF
.N6WPO
KD6WOK
.N6WQR
KC6WRI | KARELLE
DAVID D.
VIRGINIA
BILL
MARK
BERNICE
JEANNIE | 598-9322
279-7754
566-1025
727-4279
689-9318
433-0711
566-1959 | VISTA
SAN DIEGO
SAN DIEGO
SAN MARCOS
SAN DIEGO
SAN LUIS RE
SAN DIEGO | 92085
92111
92126
92069
92131
92068
92131 |
| WAGPLX
K66PM.
KB6PNE
.K6PP
KA6PPD
.W6PQO
.N6PRC | LAURENCE A.
STANLEY J.
DAVE
GENE
PAUL
STEVE
HENRY W. | 286-2829
583-2053
432-8737
442-3716
726-1657
459-2748
224-5975 | SAN DIEGO
SAN DIEGO
ESCONDIDO
EL CAJON
VISTA
LA JOLLLA
SAN DIEGO | 92120
92120
92027
92020
92084
92037
92107 | KK6RX.
.W6SAC
.N6SAN
.W6SAX
KD6SBN
KD6SFK
KC6SFM | SALVATORE "S
LAWRENCE
GENE
MARSH
ALAIN
TONY
HARVEY O. | 451-1588
455-5907
222-4726
272-1409
267-0819
729-1579
724-4872 | SAN DIEGO
SAN DIEGO
SAN DIEGO
SAN DIEGO
BONITA
CARLSBAD
VISTA | 92128
92122
92106
92117
91902
92008
92085 | KD6UAF
KAGUAT
K6GUAW
KD6UBB
KD6UBC
KB6UCF
KA6UEA | PHIL
ERIK
RIZ
JOHN
KIM
EDWIN
GEORGE | 524-9012
436-5550
429-1638
430-1327
430-1327
471-9701
743-7833 | SAN DIEGO
ENCINITAS
SAN DIEGO
OCEANSIDE
OCEANSIDE
SAN MARCOS
ESCONDIDO | 92135
92024
92154
92054
92054
92069
92025 | KC6WRK
AA6WS.
.N6WSW
.N6WTE
WAGWTZ
AB6WX.
KC6WYS | SCOTT
DONALD G.
STEWART S.
JAMES
OLIVIA
CHRISTOPHER
KRISTELLE | 566-1959
295-8782
438-1668
724-3969
726-4022
598-9322 | SAN DIEGO
SAN DIEGO
CARLSBAD
VISTA
VISTA
ENCINITAS
VISTA | 92131
92103
92009
92083
92084
92024
92085 |

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| KD6WZ.
KC6WZ
KZ6X.
KM6XA.
.N6XCC
.W6XE.
AB6XK. | FREDERICK
DALE
PAUL
JOEL
JIM
DAVID T
DAVID | 729-2991
436-2537
689-8423
598-5732
753-0837
495-8640 | CARLSBAD
OCEANSIDE
ENCINITAS
SAN DIEGO
VISTA
ENCINITAS
MISSION VIE | 92008
92052
92024
92126
92083
92024
92691 | KD6YY.
KC6YYT
.W6YVY
.N6YZZ
KW6Z..
NG6Z..
WV6Z.. | ROBERT
ROBERT
SAMUEL EARL
LINDA D
EDWARD
WILLIAM H.
DELMAR E. | 436-1827
744-0141
726-2624
749-0276
592-9306
443-8775
695-9790 | LEUCADIA
SAN MARCOS
OCEANSIDE
VALLEY CENT
SAN DIEGO
LAKESIDE
SAN DIEGO | 92023
92069
92056
92082
92127
92040
92131 | KB7RAG
.N7TTO
.N7USR
NM7V..
WT7W..
.K7WIX
KB7YLF | MIKE
JIM
GREGORY
TIM
JAMES A.
BOB
MARK | 723-0872
278-9575
720-7284
726-3656
729-5519
525-6788 | FALLBROOK
SAN DIEGO
CARLSBAD
ENCINITAS
HEBER SPRIN
CARLSBAD
WALLA WALLA | 92028
92124
92008
92024
72543
92008
99362 | ASSOC
ASSOC
ASSOC
ASSOC
ASSOC
ASSOC
ASSOC | BILL
ANTHONY
GERRY
REMY
ANDREW
JUSTIN
CONSTANCE M | 729-6787
673-8471
694-3823
434-9272
942-1471
729-4349
967-0333 | CARLSBAD
SAN DIEGO
SAN DIEGO
CARLSBAD
ENCINITAS
CARLSBAD
OCEANSIDE | 92008
92128
92117
92008
92024
92008
92054 |
| .N6XXU
.N6XXV
NA6Y..
AB6YA.
K66YB.
WAGYCK
KD6YDI | CURTIS R
CHARLES K.
JOHN
ERIC
GARY A.
WILLIAM W.
ROY L | (S481-5286
940-9212
561-8609
972-8699
488-5863
788-6725 | VISTA
SAN DIEGO
VISTA
LAKESIDE
SAN DIEGO
SAN DIEGO
SANTA YSABE | 92085
92130
92083
92040
92196
92109
92070 | KJ6ZD.
AB6ZH.
WA6ZJC
.N6ZNE
KC6ZNO
KN6ZO.
KC6ZRV | NORBERT
JULIA
JOHN
TERRY D.
VICTOR
JOEL
MARK | 630-5538
476-1637
587-8061
789-4059
672-3350
631-0969
385-4676 | VISTA
CHULA VISTA
SAN DIEGO
RAMONA
SAN DIEGO
OCEANSIDE
OCEANSIDE | 92084
91910
92122
92065
92101
92057
92054 | .N7ZFP
AHB4D
WB8BHE
KD8CA.
WB8EJ
.N8NHY
NN8P.. | LORI
LIONEL "DOC"
TOM
W. "PAT"
STEVEN
JAMES A.
HOWARD W. | 278-9575
744-9431
598-7534
523-1833
430-1368
943-8336 | SAN DIEGO
SAN MARCOS
VISTA
SAN DIEGO
CARDIFF
OCEANSIDE
ENCINITAS | 92124
92069
92083
92166
92007
92057
92024 | ASSOC
ASSOC
ASSOC
ASSOC
ASSOC
ASSOC
ASSOC | BRIAN
DENNIS
ZACHARY
JUDIE
THOMAS
MARK
ROBERT E. | 598-3777
941-6737
941-6737
259-9461
722-8871
724-2595 | VISTA
OCEANSIDE
OCEANSIDE
ESCONDIDO
SAN DIEGO
OCEANSIDE
VISTA | 92084
92056
92056
92026
92121
92057
92083 |
| KD6YDJ
KC6YEU
K16YG.
.K6YGK
KB6YHY
KB6YHZ
KD6YJB | LYLE
MARTINE
FRANK
GEORGE
ANITA M.
ARTHUR PAUL
MARVIN L. | 789-3554
598-9322
747-2526
755-1014
758-0234
758-0234
694-3823 | RAMONA
VISTA
ESCONDIDO
DEL MAR
VISTA
VISTA
SAN DIEGO | 92065
92085
92026
92014
92084
92084
92117 | KD6ZSH
KD6ZSQ
KD6ZSR
KD6ZTJ
.N6ZUC
KC6ZVG
KC6ZVI | CHUCK
MARK
JERRY
DAVID
TIM
JAMES "JAY"
THOMAS C. | 480-0525
720-9228
679-8607
475-6609
735-9125
480-4860
727-1754 | ESCONDIDO
CARLSBAD
POWAY
SAN DIEGO
ESCONDIDO
SAN MARCOS
VISTA | 92027
92008
92064
92114
92027
92069
92084 | .W9AOX
WB9COY
.W9FOW
WA9LFR
KC9LV.
.K9OH.
WB9RKN | DONALD G.
EUGENE M "GE"
STAN
JAMES H.
RICK
BORJE - BILL
ROY H. | 944-0378
748-2286
749-0276
942-5497
743-1514
630-0874
464-2625 | CARLSBAD
POWAY
VALLEY CENT
CARLSBAD
ESCONDIDO
VISTA
SAN DIEGO | 92009
92064
92082
92009
92027
92083
92119 | ASSOC
ASSOC
ASSOC
ASSOC
ASSOC
ASSOC
ASSOC | EDWARD C.
KARLA
LEROY
KRISTEN
MARTIN
W. LEE
CHARLES | 729-7290
929-0603
434-9934
295-0173
598-4833
598-4833
749-3772 | CARLSBAD
CARLSBAD
CARLSBAD
SAN DIEGO
VISTA
VISTA
ESCONDIDO | 92008
92008
92008
92116
92083
92083
92026 |
| KD6YKV
KD6YKX
WB6YLT
.N6YMC
.N6YMD
.N6YMH
WAGYOO | PERRY
JAMES M.
WM. E. "BILL"
PETER
JOE E.
GEORGE
HARRY | 439-7399
480-9473
598-9322
941-6823
728-5914
743-4212 | CAMP PENDLE
RUPERT
SAN MARCOS
VISTA
VISTA
FALLBROOK
ESCONDIDO | 92055
83350
92069
92085
92084
92028
92029 | .N7AMR
WB7BDK
AB7BN
KC7CIF
WB7CZH
.K7DCG
AA7GL. | ALLEN
JAMES
EDWARD
LELAND
JEFFREY H
DENNIS
RON | 434-5656
726-6280
454-7784
223-6068
748-9046
224-0068 | CARLSBAD
SAN DIEGO
YUMA
LAS VEGAS
SAN DIEGO
POWAY
SAN DIEGO | 92008
92173
85365
89122
92137
92064
92131 | .N9RKR
.N9YMJ
ASSOC
ASSOC
ASSOC
ASSOC
ASSOC | DAN
BILLY
JOHN
JERRY
LON
SYDNEY F.
DONALD O | 556-3963
439-6348
726-1449
727-8836 | INDIANAPOLI
FPO
OCEANSIDE
SAN DIEGO
VISTA
VISTA
CAMP PENDLE | 46251
96674
92054
92128
92083
92084
92055 | ASSOC
ASSOC
ASSOC
ASSOC
ASSOC
ASSOC
ASSOC | MICHAEL
AMY
CHARLES(BUD)
D. J.
MARCELLA
TOWER
TOMMY | 724-5037
726-0595
471-6816
746-9207
746-5242
434-8707
727-0254 | VISTA
VISTA
ESCONDIDO
ESCONDIDO
ESCONDIDO
CARLSBAD
VISTA | 92084
92083
92029
92027
92026
92008
92083 |
| KC6YOX
.N6YPC
.N6YRS
KC6YSO
KC6YSP
WAGYUN | WILLIAM G.
JOSEPH B
JESS
DAVID
ANTHONY
ART | 433-4626
562-1868
599-1134
286-4888
429-6322
749-5291 | OCEANSIDE
SAMTEE
VISTA
SAN DIEGO
SANTA CRUZ
ESCONDIDO | 92056
92071
92083
92115
95060
92026 | .W7HKI
NL7IY.
AF7W..
KA7MEM
.K7NA.
WA7OHS | D. LARRY
MARK
GARY
MORRIS
VINCE
JEROME | 439-5855
486-9082
726-2589
721-6248
729-5217
934-1014 | OCEANSIDE
POWAY
VISTA
OCEANSIDE
CARLSBAD
PHOENIX | 92054
92064
92083
92054
92008
85051 | ASSOC
ASSOC
ASSOC
ASSOC
ASSOC
ASSOC | GERALD L
WARREN
JAN
DAVID
WILLIAM
KIM | 438-0347
598-1674
431-5907
630-0186
741-1964 | CARLSBAD
VISTA
CARLSBAD
ESCONDIDO
VISTA
ESCONDIDO | 92009
92083
92009
92027
92083
92027 | ASSOC
ASSOC
ASSOC
ASSOC
ASSOC
ASSOC | JACK
NANCY
VICTOR
PAUL | 789-4356
480-7507
434-6396 | VALLEY CENT
RAMONA
ESCONDIDO
CARLSBAD | 92082
92065
92027
92008 |

BOARD MTG THUR, DEC. 15th, 1900 Hr,s QTH

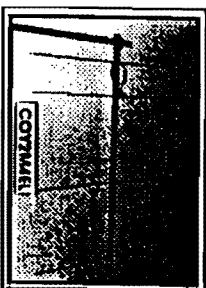
SCOPE-DEC'94



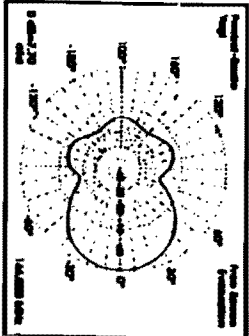
Swich
communication
Systems

Two Meter Yagi
Great for Packet
Radio or FM

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SWR < 1.7 at Band Edge
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Maximum Power 500 Watts
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Two Part RTV Potting
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(619) 748-2286
Gene Swiech, WB9COY

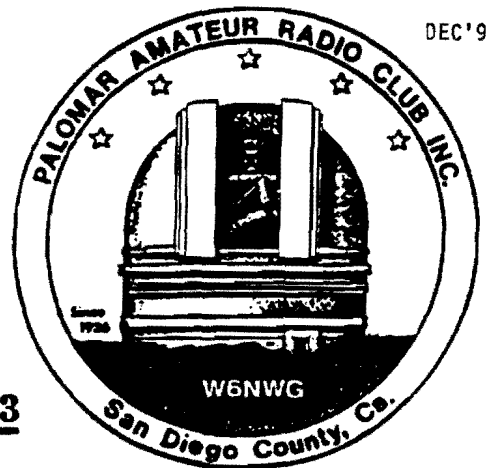
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U.S. PATENT ATTORNEY

723-0620

Loyal M. Hanson - W9WV
Fallbrook, California

Scope

W6NWG



Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073

DECEMBER ***** 1994 ** 58 YEARS OLD

Volume XX, Number 12

Published monthly by PARC, an ARRL Special Service Club. Membership \$12 including \$3 for SCOPE. Outside SDC \$4. Coffee 7pm, Mtg. 7:30pm @ 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 on 146.73

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

PARC W6NWG Trustee: Ron-WI6B
Autopatches(4): 146.73-, 147.075+*
147.13+*, 449.425+*

PALBBS: 145.070 (W6NWG-3) SYSOP KE6CDH
PACKET: 145.05s; 70cm MET; RTTY: 146.7+*
SIMPLEX: 145.350s, 145.520s, 446s
ATV: 1241.25T(out) / 919.25R(in),

ATV Intercom 146.43s PL 79.7Hz.

COVERING 2000 SQ-MI OF SDCo.

OTHER: 224.380-*KK6KD; 224.9-*WD6HFR
146.175+*WA6IPD; * = 107.2Hz

CALENDAR

Dec 1 Thu. Encinitas Christmas Parade
Dec 3 Sat Tasma Mtg Carlsbad SC 8-12a
Dec 4 Sun PALBBS Mtg WB6IQS QTH 1pm
Dec 7 Wed. CLUB CHRISTMAS MEETING
Dec 10 Sat. PARC VE Tests Carlsbad SC
Dec 15 Thu. PARC 7pm Board Meeting
Dec 16 Fri. Deadline 4-SCOPE articles
Dec 20 Tue. SCOPE mailed at Vista PO
Dec 25 Sun. ** CHRISTMAS **

NEXT MEETING Pres. KC6UQH

PLEASE COME EARLY and help set up chairs.

Art McBride-KC6UQH has announced that the December club meeting will be our Christmas Program: election of officers, introductions, and many many interesting SHOW & TELL items.

(S)HOW & (T)ELL: See Art-KC6UQH B4 meeting to reserve time.

RADIO STAMP PINS / POWER SUPPLIES

- PINS -

When PARC had to raise thousands of dollars muy rapido to buy the repeater site on Palomar Mountain, the club bought 1,000 amateur radio stamp pins which are a replica of the 5c (gee, that was long ago!) post office stamp issued the first day from Anchorage, Alaska, on December 15, 1964. PARC has about 100 of these pins left which we are selling for \$5/pin.

These make great Christmas gifts for collectors of pins, friends or family. When these are gone ..there are no more! See Ralph at the back of the room to get your "limited edition" stamp tac pin for your tie, lapel, or hat. We could use the \$500 for several projects the club has in mind such as the new 146.7 "packet repeater" system and PALBBS. =SK=

- POWER SUPPLY -

Ted-KD6AKT, one of PARC's chief scroungers, has obtained a large number of neat looking 30v @ 2A power supplies which can be easily be converted to 13.8v @ 2A. Ted is donating these to the club with the proceeds to be used for the club PALBBS operated by John-KD6CDH. Ted will have the conversion diagrams (3res 1cap, a VR (est\$5)) at the December club meeting. Your editor is looking for 2-3 of the units to use with the family packet setup which will use a 13.8v batteries, HTs, and TNCs. The price is \$5/unit, or \$15 converted.

These should also work great as

an emergency supply for your 2m/70cm base stations when used to charge a 13.8v battery. Your station might use 4-6A on transmit which is more than the 2A supply can provide but the rest comes from the battery. On receive U R powering UR transceiver and charging the battery at the same time. =SK=

ELECTIONS for '95

Club elections for President, VP, Secretary, Treasurer, and two Board members will be held at the December club meeting.

At the November club meeting the nomination committee composed of Nash-W6HCD (Ch), Jo-K9GNMK and Ellen-N6UWV submitted their recommended slate of officers:

Pres. : Art Mc Bride . KC6UQH
V.Pres. : Sybil Allbright . W6GIC
Sec. : David Doan . KC6YSO
Treas. : Jennifer Thleme . KM6WG
Board M.: Mike Doyle . AB6QT
Board M.: Marvin Munster . WB6PKK

At the Nov. club meeting the following were nominated from the floor:

V.Pres : John Crossan . KC6CDH
Board M.: Ken Stubblefield . N6ALA

The following are statements received from nominees:

FOR PRESIDENT - (not contested)

*** ART MCBRIDE, K C 6 U Q H ****

Licensed 1991. Technician Class.
VP of PARC 3yrs. Repeater Tech. of 147.075/147.130 2yrs. PARC program Chairman 3yrs. Picnic Chairman 2yrs. Net Control for the Ham Help and License Theory nets. Participated in PARC Field Day 2yrs. General Radio Telephone License 1962. Tasma

FOR VICE-PRESIDENT - (only one)

*** SYBIL ALLBRIGHT, W 6 G I C ***

Licensed in 1953. Advanced Class. Sec. of SANDRA. Sec. of TASMA Tech Committee. Chair of 1990 SWDiv Convention. Speakers Chairman, 1994 SW Division Convention. Meritorious Service Award'90. Ed SQUELCH TALES. Life Member ARRL & QCWA. Asst. SW Div. Dir. PARC Board Mtgs. 1993-4.

*** JOHN CROSSAN, K C 6 C D H ***

Info not received by deadline.

FOR SECRETARY - (not contested)

*** DAVID DOAN, K C 6 Y S O *****

Licensed 1991. Technician License. PARC 6m Repeater Committee 1994. All of the Repeater Site Work Parties '94. PARC Field Day.

FOR TREASURER - (not contested)

*** JENNIFER THIEME, K M 6 W G ***

Licensed 1991. Advanced Class. PARC Treasurer 3yrs. PARC Field Day 2yrs. Booking business. Registered tax preparer. PARC VE test team.

FOR BOARD MEMBER - (only two)

*** MIKE DOYLE, A B 6 Q T *****

Licensed 1990. Extra Class. Rpt. Tech 146.730/449.425 3yrs. Board member 1yr. Net Control Ham Help. PARC Field Day setup. General Radio Telephone license. Asst. Supervisor at Palomar Observatory. PARC VE Test team. Repeater Site worker for 3yrs. TV repair 17yrs.

*** MARVIN MUNSTER, W B 6 P K K **

Licensed 1964: WB6PKK, TECHNICIAN Electronic Mfg. Engr. Involved in various radio clubs as VP; Tech committee; membership chrnm; Field Day Pkt. Stn. Coordinator. SYSOP for ESCN & SNOG Pkt. Nodes. PARC member 5yr. ARRL, BARN, EARS, SCRA, SOARA, S. Fernando 220group, & BARRA (Mex. Rd Races)

*** KEN STUBBLEFIELD, N 6 A L A **

Licensed 1960: N6ALA, ADVANCED Net Manager of PARC's Computer Net Past VP of the EARS Ham Club in Escondido, past president of two 4x\$ off road clubs, and member at large of a social club. PARC's RTTY board project. I will do my best for the club and its members.

Where more than one person is running for an office, opportunity will be given at the December club meeting for individual statements of three minutes each by those running for an office.

Voting will be by ballot AFTER the individual statements at the December club meeting.

- DEC BOARD MEETING -

BOARD: KC6UQH W6HCD KM6WG WB6IQS W9FQN KC6WAN *AB6QT KC9LV (*ABSENT).

OTHERS: W6GIC KB6MCU N6ALA KM6WF KE6CDH.

The meeting was at the QTH of Stan-W9FQN and refreshments via PRICE CLUB.

- SECONDS -

DISCUSSED: EquipBal \$2480, Gen \$6489, PrePd \$3212, P.O. \$35; election & voting; programs; jacks; SCOPE roster; TASMA; WA6Y00 resignation; VSTA patch move; earthquake detector; site update & new buildings; PALBBS meeting Dec 4 @ WB6IQS QTH; boat & racks @ Y00's; PARC trailer mods; ATV(FM); pwr supply donation for PALBBS; etc.

APPROVED: \$50 moved to ATV group; PARC bills; 3-min talk B4 election, qualifications in SCOPE 8Lines X 35 spaces; WB6IQS & W9FQN to vote PARC's interests at TASMA mtg; etc.

Contact board member 4-info or C Sec. 4-minutes.

LAST MEETING

Nov. Attendance R: 8 guests, 100 members, for a total of 108.

VP Art-KC6UQH announced the resignation of president Harry-WA6Y00 and conducted the rest of the meeting.

David Drake, KN6TX, presented an excellent program on Earth Quakes and explained the construction of a simple detection device with enough sensitivity to detect earthquakes from around the world. David had excellent overheads showing his equipment and graphs of quakes he has detected with a humorous explanation of equipment and graphs.

SHOW & TELL featured another of John-WB6BKR's construction gems, a very low frequency transmitter on 1750kc. Steve-AC6EA brought in a portable VHF military radio 4-us to look at. Ted-KD6AKT distributed handouts on converting a Bell modem over to packet.

ART-KB6YHZ made the coffee and Sybil-W6GIC supervising the drink and goodies ..and members bringing goodies: N7USR, KE6CDH, KM6PY, KM6MW, N6ISC, K6YGG, & KE6BGI.

Goodies were great & U were rewarded with "1" participation ticket.

KI6JM/K6HAV - A G O G O - W9FQN

(12-89)(5yrs) Christmas program & music by Phil-WF6L ..'89 FD report ..club given DFing unit (still unfinished -Ed).

(12-84)(10yrs) ..John, WB6IQS, gave a travelog of his trip to Peruvian archeological sites. N6GZI showed the plaque to be sent to honorary member, W6HW, and read a thank you letter from the Malaysian A.R.T.S. for some transceiver kits donated by the club. ..discussed interference by KØJPK 146.73 repeater. ..cables and hardware for the new tower antennas were made up and ready ..Christmas party with the Escondido ARS at \$13.75 per person, coats and ties. Outgoing Prez N6GZI said goodbye, thanked all for their support and asked them to support Stan, W9FQN, the new incoming president.

Thanks to:

LINEAR CORP for the donation of a lot of computer items: modems, smart terminals, hard drives, 286/386 mother boards with math coprocessors, etc. Some of the items have been given to John-KD6CDH for the PALBBS project. The rest will be brought to the December meeting for sale.

MILT-W6MK for more W5YI reports and DENNIS-N6KI for the NASA publications.



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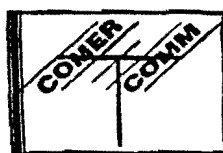
RADWARE

OPEN HOUSE

From December 7th 1994 to January 20th 1995, we will hold an Open House most weekday evenings from 6 PM to 10 PM to allow Hams and short-wave listeners to play with a complete operating RADWARE system. We will have the RADWARE card operating a 486 computer with local bus video. A prototype transmitter amplifier will drive an FL2000B linear amplifier. The antenna is a Cushcraft R7 mounted on the roof of the building in a clear industrial area. Please call beforehand so that we are sure to be open on the evening you would like to attend.

The RADWARE BBS is now up and running call 599 0185 for free RADWARE Demo programs and other info.

PS. We have a surplus of leaded parts that will be on sale during the open night's.



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 PRESIDENTIAL QRM WA6Y00

 Dear Art (Nov2, 1994),

It is for compelling personal reasons that I tender my resignation as President of the Palomar Amateur Radio Club. My resignation takes effect immediately.

I have enjoyed my tenure as President and I hope that my efforts in the Club's behalf contributed in some small measure to its success.

73, Harry WA6Y00.

 PRESIDENT's WAVELENGTH KC6UQH

It is with sincere regret that I accepted Harry's letter of resignation. Harry and I were first elected to the Board of Directors as President and Vice President for the year of 1992. Since then we have served as President and Vice President for almost three years.

For the remainder of Harry's term I will serve both as President and Vice President of P.A.R.C. Officers for the 1995 year are installed at the close of our December General Meeting.

Under Harry's tenure we have seen our Club's membership almost double in size. In 1992 we held our meetings in the cafeteria of Lincoln Middle School in Vista. We out grew the Vista site and we moved to the Carlsbad Safety Center in 1993. We placed First in Field Day in our category (5A) in 1992 and 1993. We have added five new repeaters to our site on Palomar Mountain including an ATV repeater. Our autopatch system is in its second generation and now serves four repeaters. We have a new repeater building that is full and another building ready to fill. We have a cooperative agreement with Challenger Junior High to introduce Amateur Radio to students. We are designated a Full Service Club by the ARRL. We offer license classes. We also conduct VEC testing the second Saturday of each month. We hold 11 different special interest nets on our repeaters. We publish a

12 page news letter each month.

Our accomplishments are the work of many members and we should all be proud of our efforts.

I would like to thank Harry for his guidance and dedication for his almost three years of service to our club.

I will, as President, continue the past appointments made by Harry. I will make a special effort to work closely with the Board of Directors. Our present course has been good for the Club and I will continue that course with some fine tuning and restoration of previous Club activities.

As I have a full time business I will, at the beginning of my term as President, be making some new appointments to assist me with Club activities.

With your help and support we will make 1995 another growth year for our Club. I am open for suggestions from the membership on projects for our Club both new and old as it is our Club and we are dedicated to serving all interests of Amateur Radio.

Future columns will be dedicated to highlighting the activities of the many members who have contributed greatly to our success.

Seasons Greetings to all.

73, Art, KC6UQH

 M E M B E R S H I P 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. =SK=

2yrs= Wes-KE6NLY Ron-KM6MW
 Ken-KA5Q Bill-Assoc Bob-KE6VX
 Ruben-KE6JGG David-WA6AUK Erik-
 KA6UAI Bill-N6FMK

1yr= Dick-KD6KXH Aubrey-W6ODG
 Bob-WA6NNC John-W6BAW Dave-KB2RVJ
 Phil-KD6UAF Ray-KD6LZN Clint-KI6KP
 Dick-KD6KXH Dianne-KC6TCL Jeff-
 WB7CZH Norbert-KJ6ZD Gerry-KC6BJM

Tom-KJ6NA John-WB6MEI Floyd-W6THU
 Joel-KM6XA Mark-N6NNI Duane-AA6EE
 John-N6SMW Dick-KE6IJG Stan-KN6BE
 Carl-KE6JQL Jerry-WA7OHS Bill-K9OH
 Ted-KE6MWB Frank-KE6MYG Willie-
 KE6CSR Leonard-KB6MWH John-KD6PZE
 Jerry-KD6ZSR Gary-AF7M Charles-
 N6DWF Tim-KE6BSV Weichyun-N3OVB
 Stan-KD6DLN Alan-KD6OLL Geoffrey-
 KE6LKE Roy-KD6YDI James-KE6MYH.

NEW CALL: KB6JFA -> AC6EA;
 KE6KNL -> AC6FM; KE6CLM -> K06IQ.

UPGRADES: Bill Harding Assoc->
 KE6NAQ; R. Garley Assoc-> KE6NAN;
 Terry Smithwick Assoc-> KE6MYE;
 Michael Breaux KE6KNL-> AC6FM; Eric
 Tillery KE6CLM-> K06IQ; & Louis
 DiFazio Assoc-> KE6MWG.

CHANGES: Nick KD6JUZ to K06CT;
 Susan KD6JXL to K06BR.

73, Ralph 727-7415

E D I T O R



The page counters at the top of each page indicate a)total pages this year and b)total pages by UR Ed. The Oct. SCOPE needs 10 added to the yearly total because of an error in counting. INSIDE needs 10 added too. Pages 1-4 of this issue are the club's roster. More complete rosters area available from the membership chairman. =SK=

- N E W S -

Contributions by the 20th)

*****Jo-KB6NMK came in first at the November 12th HIDDEN TRANSMITTER hunt conducted by the Romona Outback Amateur Radio Society (ROARS). She arrived at the Fox in 38 minutes and 9 other groups came in after she did ..even beating the doppler scanners! Jo used her mobile rig and a 4 element beam attached to her car door which she rotated by hand.

*****Ted-KD6AKT with his HT packet station is able to work into the east coast and England. For information, contact Ted.

*****New TECH+ licenses will read TECH PLUS under operator privileges. -de ARRL.



FORE SAIL

Tide & Junk wait for no man.

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=

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

PARC #1, Hundreds of feet of 1.12" 3-stranded rope with each strand composed of 18-strands for a total of 54 strands. This is the type of rope you would like to get stranded with! Would make great tow rope for cars, trucks, barges, rope to tie up the kids with or that extra large dog (KB6NMK needs some), rope to tie up drifting oil tankers, etc. Keep your kids at home! Support your loco tower: Stan W9FQN 749 0276 VC.

PARC #2, PARC is selling their maritime fleet! Rough water crusier WITH TRAILER, winch(s), wench(s), 50cal, lights, ores, etc. See to appreciate. FREE SWIMMING LESSONS. Bring lifesaver(s) & ur own amo, cheap! OBO & BYOB: Stan W9FQN 749 0276 V.C.

PARC #3, SIEMENS electronic RTTY w/screen, chad punch/read, keyboard, stand, etc. Must take home to appreciate: Stan W9FQN 749 0276 VC

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

(11-23)Radio Shack HTX-100 10m 20w xcvr w/ant near new \$120; Hustler 4BTV 10-15-20-40m Vertical \$65; 5BTV \$75; MJF-202 Noise Bridge new \$35; Kenwood SW-2100 swr/wattmeter \$75: Duane AA6EE 789 3674 Ramona.

(11-21)Large assortment of PC software (orig disks, manuals & packaging; Windows and DOS; IBM Quietwriter Printer, cut-sheet feed setup only \$40: Mark KC6CZO 739 1533 eve/wk ends.

(10-15)Kenwood 2m xcvr (5230?): Ralph 728 4053

***** OLD ADS *****

OLD ADS PRINTED ON ODD MONTHS:
(Jan-Mar-May-Jul-Sep-Nov)

Old items REPORTED sold: Robot 800, AA6EE ad.

***** WANTED *****

"A larger storage shed"

PARC IS LOOKING FOR THE FOLLOWING ITEMS (old?) FOR THE REPEATER SITE: 30-50' of fencing 4 tower protection, large & small hammer, axe, small wood saw, crowbar, small scissors, & old garden hoses. We always seem to need some of these items when we don't bring them to the site -W9FQN.

(10-22)Vibroplex or McElroy bug (reasonable): Sandy K6HE 745 6940 Escondido.

(10-21)Weller soldering unit TC-201 or similar and one PC Board vice: Nash W6HCD 940 1028 Fallbrook.

(10-15)Need diagram of Telex CM-1320 headset with boom mic w/o connector: Nash W6HCD 940 1028 Fallbrook.

\$

SAVE BIG ON '95 CALLBOOKS
North American or International
(retail \$35) \$26.95; Both \$51.95

| | |
|-------------------------------|---------|
| Buckmaster HamCall CDROM | \$39.95 |
| QRZ! HAM RADIO CDROM (\$30) | \$14.95 |
| '94 Callbooks (N.A. or Int) | \$14.95 |
| '94 ARRL Handbook (\$25) | \$18.95 |
| '95 ARRL Handbook (\$30) | \$28.95 |
| ARRL Antenna Book 17ed (\$30) | \$27.95 |
| ARRL Operating Manual (\$18) | \$13.95 |
| Help for New Hams -ARRL(\$10) | \$ 7.95 |
| Now You're Talking (\$19) | \$15.95 |

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WORK PARTIES W9FQN

Cold weather is upon us and there are no planned major work parties until next Spring.

I want to thank everyone who participated in work parties this year and contributed time and effort to club projects at the repeater site. The repeater site and grounds are looking the best they have ever looked. THANKS! =SK=

(10-13)#36: Mike-AB6QT installed a new chip in the controller so

that it won't "dit-dah-dah-dit" on you at the end of a transmission unless we have lost power sometime. (but it still does -Ed)

(10-20)#37: Mike-KE6VHI, Steve-KD6ZST, and Stan-W9FQN unloaded 24 newly bought cells which will be used to make up 5,040 Ahr of emergency batteries for use at the club's repeater site on Palomar Mountain. The cells measure 10"x14" by 24" high and weigh about 350 pounds each for a total of 8,400 pounds. These batteries will be added to the club's present 3,360 Ahr of emergency power. Paul-KE6GGQ dropped in after work to see if we needed any help.

Five battery strings can provide the club with 20A (@12v) for 420 hours or 17.5 days. The longest outage on Palomar Mountain was for 10days when the mountain burned a few years ago.

One repeater on transmit draws 8-10Amps and less than an Amp on receive only so during REAL emergencies we might need 40A average each 24 hour day which means we would have about 8-9 days of emergency battery power available running all repeaters for long periods each day. "Little Joe-WB6HMY's" donated 1,000 watt generator will be connected into the power system before we run out of power. =SK=

(10-21)#38: Mike-KD6VHI, Chuck-KE6CDJ, & Stan-W9FQN took the newly donated heavy duty aluminum building (7'L x 7'W x 6.5'h) on Mike's 4 wheel trailer to the repeater site and slid it off to the rear of the tower (north side) using Stan's jeep forklift where it will be installed behind the the freezer bldg. Hellax lines from the freezer bldg can easily be moved to the new aluminum building if we decide to move any of our repeaters.

Chuck and Stan installed a chain across the door of the freezer building and distributed food and traps for our little "friends" who love our buildings during the winter months. They also installed weather stripping on the storage trailer. =SK=

(10-26)#39: Jerry-WB6FMT and

Stan-W9FQN reprogrammed the MMSA autopatch after experiencing many problems and Stan drove down to upper SD to re-install the protector with the new prefix programming. =SK=

(10-29)#40: Mike-KD6VHI brought up his tractor (Massey Ferguson 250) to level the ground for the new building (#4). Mike leveled enough ground for several buildings. John-WB6IQS and Stan-W9FQN dug a hole while Mike tarred the part of the building to be buried. When this was completed Mike lifted the 6.5' X 6.5' X 6.5'H aluminum building with his tractor into the hole. It looks great!

John and Stan cleaned up the inside of the previous "new" building (#3) and "organized" the inside of the trailer. They both cut up a lot of tree trimmings to be buried.

Mike dug a deep deep hole in the ground with the tractor and then proceeded to round up all of the cut brush and tree limbs which he pushed into the deep deep hole. Stan cleaned up after the tractor work. Mike and Stan stopped working at 6:10pm with the hole about 80% full. =SK=

(10-30)#41: Mike and Stan again returned to the mountain to finish burying all of the tree trimmings. Several large areas were cleared and leveled so that future work parties will have places to park. Mike cut down a large tree on the incoming road which obstructed trucks with trailers and the local Palomar Mountain fire department. (Tnx Jo-KB6NMK for taking the ARES net for me -Ed).

Mike used to do landscaping for housing developments and really knows how to handle the 250 trailer. Taking such a big tractor plus a 5,000 pound trailer up and down Palomar Mountain is quite a job and the PARC owes Mike a big THANK YOU for what he has done for us the past several days.

Work was completed by 3:30 and we were home an hour later after taking the East Grade road (longer but less steep with a magnificent view of lake Henshaw as you are

descending). =SK=

(11-05)#42: Mike-KD6VHI installed battery connecting jumpers on the club's new batteries (350 lbs, 1680Ahr @ 1.2v) and is attempting to bring them all up to rated specifications by charring them all in series. It appears as though several will need to be charged separately since they are coming up to specifications too slowly (this is normal). Mike hopes to have all batteries up to specs by the end of November.

(11-06)#43: A beautiful day on Palomar Mountain. Chuck-KE6CDJ and Marci cleaned the insides of three buildings, sealed the newest building #4 from the snow, planted the new EARTH QUAKE detector and ran the wires inside building #3. When the electronics are completed, it will be connected to the 146.73 repeater. The unit is the one demonstrated at the November club meetings.

Jorge-KK6KD and Daniel-KD6DKM made adjustments on the 224.38 repeater and found an increase in the SWR to the antenna which needs to be checked out before the weather gets too cold.

Dave-KC6YSO installed more grounding straps, took some pictures of the site with towers, and looked for places to place the antennas for a 6m repeater.

Stan-W9FQN went aloft and stabilized the 224.38 antenna at the 70' level. He also re-taped several heliax connections along with putting coax-seal on the dipole coax installed in a 2m corner reflector.

This was probably the last "advertised" work party until next May when the weather will be warm enough to allow us back on the mountain.

(11-??)#44: Mike-KD6VHI has been working with the 24 new 1,680Ahr cells and has them on charge at his Valley Center QTH. The new batteries are lead calcium and have better discharge characteristics than the 14 previously picked up by the club. Mike will keep them at his QTH until they are installed at the

repeater site early next summer when the club has facilities for housing the new batteries.

(11-19)#45: John-WB6IQS, Bill-KB6MCU, and Stan-W9FQN visited Sybil-W6GIC's workshop where Bill does all of his neat construction. They then picked up a 40' rotatable crankup mast which Stan hauled to John's QTH in Vista for storage. John returned on the 20th and picked up a 4el tri-band beam at the same location along with a 2m isopole antenna.

(11-22)#46: Dave-KD6EBY while checking the 14 batteries (they are fine) noted that inside one of the buildings the temperatures recorded were for the past several weeks:

| | Outside | Inside | Diff |
|----------------|---------|--------|--------|
| Maximum temp | 61.7 | 69.8 | +8.1 |
| Minimum temp | 17.2 | 41.5 | +24.3 |
| Day of reading | 44.4 | 58.1 | (noon) |

Looks as if it is getting cold up on Palomar Mountain!

*****To get into the USGS BB, dial 1-800-358-2663 (N-8-1 F.D.). Upon connection, hit <enter>. A message will pop up saying don't upload but ok to download. "H" asks you to sign in W/name and organization. Put ur name & SELF. Follow the menu and have fun. If you have questions, contact ELLEN-N6UWW. =SK=

*****Jack Willis-KE6BWM has announced that EVAC is starting a new Wing at the Blackington Airport in Valley Center and had their newly constructed EVAC trailer on display there October 9th during an Open House for the new Wing. The airport is 11 miles north of Escondido on I-15 and about 3 miles east on the North side of Old Castle Road. =SK=

*****Your editor would like to print another DXCC/WAS and Worked All California Counties list. Please send in updates (we only have 3 in WACC. AA6TR ..hw abt an update?

*****A recent story about Radio Frequency and its dangers came up with the fact that eating hot dogs being a bigger risk to health than most electromagnetic fields. de ARRL.

*****The FCC has instituted a toll-free phone line at its Gettysburg licensing division for customer service inquiries. Amateurs may call 1-800-322-1117 weekdays between 8 AM and 4:30 PM Eastern Time for direct assistance; at other times callers will be connected to an automated information system with recorded messages on interference complaints, form requests, records and Amateur Radio call sign assignments.

Other messages regard fee information and processing times. A touchtone telephone is required for the automated system (de QST Nov94). =SK=

*****Pat-KD6PZB supervised the 70mi bike TOUR DE NORTH COUNTY '94 with helpers Ellen-N6UWW, Ramon-KE6BXH, Jack-W6MO, Nash-W6HCD, Mike-KE6KNL, Walt-WA6DDQ, Mike-KD6RFJ, Shawn-KE6BGF, and Paul-KD6JXY. At the end of the event they were treated to music, food and a "Tour de N. Co '94" T-shirt.

*****Ed Jankowski-W6KCB has returned to the SD area for several months with his new 70' cruiser which he will take down to Cabo San Lucas around Christmas time. Ed will be remembered for his donation of "long" chunks of Heliak and for a computer program he and his son put on for us before leaving the area.

*****JACK-KI6JM has been trying to get his new packet unit up and working over the past 3-4 months thinking his problem was in the wiring of the connections between the transceiver and the packet unit. LARRY-WA6UTQ at the SCOPE folding and stapling party solved Jack's problem by changing his squelch level. =SK=

*****The FCC recommends that you submit renewal applications 60-90 days before your expiration date. The ARRL is sending its members reminders along with a 610 form and addressed envelope to the FCC. -de FCC/ARRL. (PARC puts your expiration date on your label each month if you gave it to us when you signed up...so check it from time to time -Ed.)

**Jennifer A. Thieme
KM6WG**

**Bookkeeper
Accountant**

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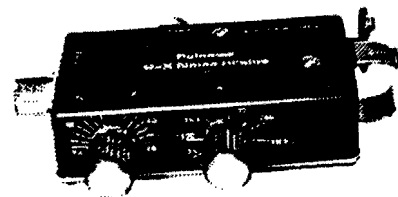
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Board Design**

**J.T. (Tim) Low
N6ZUC**

**Phone or Fax
(619)735-9125**

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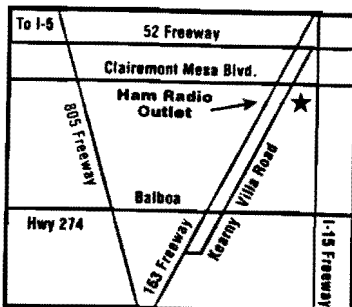
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For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

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