

# Scope

**W6NWG**
**Palomar Amateur Radio Club Inc.**
**POST OFFICE BOX 1603, VISTA, CALIFORNIA 92085-0530**


W6NWG/R 146.73(-), 449.425(-), 145.05(Pkt); KA6UAI/R 147.13(+)(Patch)  
 WD6HFR/R 224.90(-); WA6IPD/R 146.175(+)(Patch)

VOL XXVI, NO. 1 FEBRUARY 1936 to JANUARY 1991

President :	Stan Rohrer	W 9 F Q N	Valley Center 749-0276
Vice Pres :	Jack Hanthorn	K I 6 J M	Vista 598-0420
Secretary :	Nash Williams	W 6 H C D	Bonsall 728-3574
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Editor :	Stan Rohrer(temp)	W 9 F Q N	Valley Center 749-0276
Membership:	Jo Ashley	K B 6 N M K	Escondido 741-2560

JANUARY 2nd meeting(1st Wed) is at Lincoln Middle School Cafeteria in Vista. I-5 or I-15 to Rd.78, Escondido Ave(Sunset) ramp,north on Esc.Ave. after 2nd light between Eucalyptus and E.Vista Way. Talk in 146.730 or 7.13.

## HAM CALENDAR

Jan 1 Tue - New Officers Start  
 Jan 2 Wed - PARC Club Meeting  
 Jan 12 Sat - PARC VE Test, AA6DM  
 Jan 19 Sat - EARS DFing,ck 146.88  
 Jan 22 Tue - Deadline for SCOPE  
 Feb 16-17 - ARRL Int.DX Cont. CW  
 Mar 2-3 - ARRL Int.DX Cont.SSB  
 (Send calendar items to W9FQN)

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## NEXT CLUB MEETING

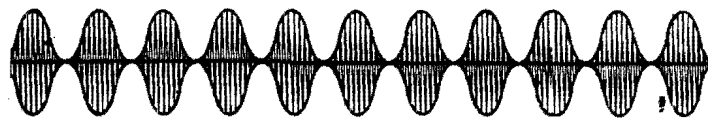
Our next club meeting will be JANUARY 2nd at 7:30pm in the Lincoln Middle School on Escondido Avenue in Vista. The program will be on AMTOR, and presented by Don Huff, W6JL, of Poway. AMTOR is similar to Radio Teletype (RTTY) except that it has ways of making the copy more accurate under conditions of fading and interference. Some amateurs think it is better than packet on HF (3-30MHz).

SHOW AND TELL- Why don't YOU consider bringing something for SHOW and TELL, new HT, portable computer, something homemade, etc. or share some new information with us. Don't forget the FOR SALE TABLE!

## LAST CLUB MEETING

Attending were 50 members and 11 guests who enjoyed the coffee and Christmas goodies. Art-KB6YHZ did a great job on the coffee and Kieko was


**Speed-X Straight Keys**



there with more goodies. Kieko also crochet some Christmas tree booties which she sold and donated the profits to the club. Thanks Kieko (Kay-ko). Now if we just could get you up to 5 wpm!

The program consisted of the election of officers and longer introductions which proved to be quite interesting; from tall tales of the spark-gap days to wanting a license for cruising the Pacific were told. For some reason or another I can just imagine hearing the arc of Sam-W6YYV's transmitter from half a block away and smelling the ozone! Those days must have been exciting.

#### WANT to BE a HAM?

(or Dial-a-Ham)

If you are interested in amateur radio or have a friend who is interested, contact one of the ELMERS listed below who is nearest to you for more information on Ham Radio:

BONSALL: Nash Williams: W6HCD: 728-3574  
CARDIFF: Duane Stedman: WB6R: 753-4821  
CARLSBAD: Eleanore Call: N6QJE: 729-0850  
Chula Vista: Bety Mahoney: KB6DGR: 420-2277  
DEL MAR: Gerry Sanford: KC6BJM: 755-5244  
ESCONDIDO: Jo Ashley: KB6NMK: 741-2560  
ENCINITAS: Dave Copley: WA6HQM: 753-2605  
FALLBROOK: Art Rideout: WA6IPD: 728-6834  
La MESA: Roger Jaffe: N6UUW: 697-6025  
LAKE SIDE: Mac McBride: WB6GXR: 561-2211  
LEUCADIA: Bud Lincoln: KB6VX: 436-9983  
Lin Vista: Paul Williams: KB5MU: 571-8585  
MIRA MESA: Ron Earl: W6TXK: 566-1959  
OCEANSIDE: Lloyd Hunt: W6TFB: 757-9374  
PAUMA-PALA: Mark Ross: KC6CZO: 742-1539  
Point Lom: Mick McDaniel: W6FGE: 222-3912  
POWAY: Mark Schlessinger: N6NNI: 748-8391  
RAMONA: Vernon Leming: AA6UU: 789-3070  
Rancho Pen: John Tentor: W6OLQ: 672-3891  
Rancho S. Fe: Ron Wilhelmy: WI6B: 756-3133  
S.D.: Dennis Vernacchia: N6KI: 271-6079  
San MARCOS: Rusty Massie: AA6OM: 747-5872  
San MARCOS: Floyd Harvey: W6JSP: 741-8391  
Solana Be: Lou Broadbent: N6CKQ: 755-9179  
VALLEY Ctr: Stan Rohrer: W9FQN: 749-0276  
VISTA: Jack Hanthorn: KI6JM: 598-0420

Ron-W6TXK sometimes conducts classes in the MIRA MESA area so

contact him for the latest information on new classes.

POINT LOMA NOVICE INSTRUCTION and TESTING: contact Mick McDaniel, W6FGE and friends, 222-3912.

The club has some code tapes available if beginners find some of the "starter" packages a little too expensive, but they still need a test booklet. We also have some IBM compatible disks of a great code program available at club meetings. If you have a good code program, please make up a disk with it and several other programs for us to get new hams started. The club will exchange disks with you. We need programs for Apple and C-64's. We presently have programs for IBM and Radio Shack Mod III & IV.

One of our members from Fallbrook, Ray-KK6CA, has consented to make up special code tapes for those wanting special types of practice material. Please bring in your blank cassettes and be prepared to tell Ray what type of practice you want.

For those club members who borrowed code disks from W9FQN or KB5MU, we would like to have you make copies of the disks and return them to us at the next meeting so that we can make the disks available to other members and prospective amateurs. Thanks.

#### CONSULTING EXPERTS (found on 146.730)


W9FQN : Mexican license; Nicads  
WD6FWE: C-64 computers > Commodore  
WA6HQM: 10 meter 10-10 Club Infor  
WB6IQB: Heathkit; Motorola; Rpters  
N6KI : Swapmeets; Used Equip. \$\$  
W6INI : ARRL; ARES; Fire Patrols  
N6IZW : Microwave; Test Equipment  
KB6MCU: Interference; Filters; ATV  
KB5MU : Pkt; Satellite; Computers  
KB6NMK: Direction Finding info.  
W6OLQ : Ping Pong; Badges; HP Plot  
AA6OM : VE Testing; Tests/Helpers  
KC6PEN: Ham Help NetThur.Eve; Tubes  
KI6RF : Mobile noise filtering  
N6TEP : U.S. Coast Guard Auxiliary  
AA6TR : Sailing / Boating Antennas  
N6UUW : Radio Controlled Airplanes

N6RVO : National Traffic System  
 WQ6V : Cable TV problems; Coins  
 ND6W : Test Equipment, Programming


Check ad sections for professional help on radio repair; N6GZI, KC6PEN, and HR0. If you would like to have your call added to the list, contact W9FQN with your speciality area.

## EXECUTIVE MEETING

The Executive Committee, consist-



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N6GZI  
Edward Ross

ing of the officers of the Club and the Chairmen of its committees, meets at 7:30 p.m. on 2nd Thursday after the club meeting at the home of various of its members. You are welcome to attend these meetings. Contact any executive member for additional information on executive committee meetings.

There was no December meeting.

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ADS HELP SUPPORT THE "SCOPE"

de EL PRESIDENTE #12

One of the big problems with clubs is in obtaining good officers and in keeping them after they are trained for their jobs. Ron Wilhelmy-WI6B has been our treasure for the past five years and has done an excellent job of keeping our finances in proper order and keeping the officers informed of the current status of our monies. Ron, I have really enjoyed working with you and have appreciated your comments and suggestions during executive committee meetings. You have also helped the club in other ways: VE program, and as Trustee for W6NWB giving us Extra class privileges.

We hope that after a rest that you will be back in the harness in some other club position of leadership.

This is the start of my seventh and last year as president of PARC and I have already started my "count down." Before coming to California I

was an advisor to a high school station in Elkhart, Indiana, K6IXB, for 15 years, served as president of the Elkhart Red Cross ARC for a few years and also served as the Emergency Communicator for Elkhart Co. for about 10 years. I really enjoyed the amateur radio relationships that I developed at the high school club and many of my "kids" drop in to see me from time to time after 20-35 years. K9IXB (great CW call) always placed high in Field Days relative to other high school stations and this is probably why I have always had a great interest in PARC's FD efforts.

After coming to California I sort of dropped out of amateur radio until Ed-N6GZI got me working on the 70' tower installation at the repeater site in 1984. I attended PARC meetings for years and no one knew my name or my call which makes me wonder about the amount of talent lurking in the club just waiting to be discovered.

I have always been interested in building things so the past six years have been quite interesting and even though I will be stepping down I don't expect to "drop out" of club activities.

73. Stan W9FQN

## NEWSLETTER HELPER S

- November 1990 -

Computer Labels Bill Whipple N6COU  
Ads, Art, Members Jo Ashley ... KB6NMK  
Ad billing \$\$\$ John Tentor . W6OLQ  
Folding, Labels, Jack Hanthorn KI6JM  
Mail/ZIP/Forms Stan Rohrer . W9FQN

Without these people life would certainly be difficult (de W9FQN).

## SPECIAL

### RECOGNITION OF =>

Jo-KB6NMK for taking over the 40th Annual Christmas Parade in Escondido when Harry-WA6Y00 became ill. Those participating from PARC were: Ellen-N6UWW; Steve-N6UIA; Jo-KB6NMK; Mark-KC6CZO; Bernice-N6WQR; Al-N6GNB; Mickey-N6BWJ; Jerry-N6TCB; Chuck-N6TJT; Susan-N6QDB; Barbara-KA6FPS; Phil-KC6OEI; Don-N6TRB; and Terry-N6UZH. Others were: N6KVP, KB6DQO, WA6IQY, WA6IHH, N6CLO, KI6SG, N6KVO, WA6ILH, WB6PKK, N6ATQ, and W6MNH. Communications were on the EARS repeater, 146.88, and simplex.

- BK -

Paul-KZ6X for bringing his trailer to the ARRL 10m contest at the Field

Day site. It was greatly appreciated by all who used it when they were not operating in the Taco Wagon where the station was located.

- BK -

Don-AA6WS for the nice comments on the PARC application blank.

- BK -

Skip-N6YAX for letting us know what blocked the repeater for two hours 10-05-90. It happens to the best of us sometimes.

- BK -

Larry Ruegseger-WA6UTQ for supervising the obtaining of more batteries for club use. These units will give us over 3,300 Ahr of additional storage capacity and the price was acceptable. Trickle charge is about 3.5 amps or \$4.00/mo on the electric bill.

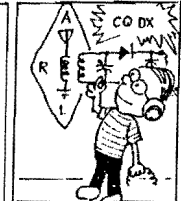
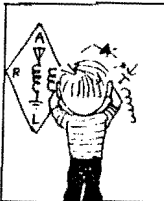
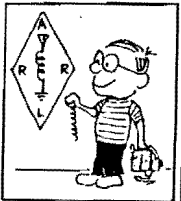
- BK -

Enjoyed the comments and Show-n-Tell at the December meeting by: Sam-Burdett-N6YYV (police radio operator-35wpm, spark-gap days, licensed 1926, etc), John-N6URW (portable quad which grows and grows, and grows), Phil-KC6OEI (request for PARC participation in giving blood as a group in January), Harve-KD6QK (80-40 simple bawn), and Alan-WA3HHC (realistic sounding diesel train). Thanks for making the meeting more interesting.


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by Rich Regent, K9GDF





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ADS HELP SUPPORT THE "SCOPE"

REPEATERS, etc.

TECHNICAL: John Quivinen.....WB6IQS

- - TRUSTEES - -

W6NWG/R: Ron Wilhelmy.....WI6B->  
145.05(s)pkt, 146.730(-), 449.425(-)



# 2-WAY RADIO

KA6UAI/R: Erik Thompson, 147.130(+)  
 WA6IPD/R: Art Rideout, 146.175(+)  
 WD6HFR/R: Ron Berger-NE6T, 224.900(-)

The Packet repeater, W6NWG, has been operating as a digipeater since it was first placed on Palomar Mountain. Starting January 1st (snow permitting), the packet repeater will be changed to a node: W6NWG-1 with mnemonic, PALMAR. We will also have the NET/ROM NODE for a second channel, W6NWG-2. Any suggestions - and help?

Thanks to Paul-KB5MU for helping with the paperwork and to Larry-W6QCA and Betty-KB6DGR for checking mnemonics and making suggestions.

REPEATER RULE#2: Those who do the most work at repeater site use the repeaters the least.

- BK -

WORKPARTY: Nov. 29. Jack-KI6JM, Nash-W6HCD, Art-KB6YHZ, Larry-KC6PEN, and Stan-W9FQN picked up the new 1.680 Ahr cells for the repeater site from the Oceanside area. Each cell weighed 350 pounds for a total of 5,000 pounds of cells. We were allowed to check the cells before picking them up so we picked cells that had a specific gravity of above 1.232 (uncorrected for 70 degrees temperature) and a voltage at or above 1.205v. These cells are "float" cells and their specific gravity and voltage readings are slightly different from normal car batteries and deep cycle batteries.

We had professionals from L.A. move the batteries for us to the site and their big truck barely made it down the dirt road. We used W9FQN's red jeep which has a fork lift on its backside to move the batteries into the new shed. We feel that the batteries will add greatly to our emergency "staying power" during emergencies. A future project is to add an "on site" remotely controlled generator to be used before the batteries get pulled down too low.

Jack and Art were out ahead of Nash and myself on the way to Palomar. I gave them a call on 146.73 trying to find out where they and the truck were located. I about died when their response was that they were half way up Nate Harrison Grade and the truck was bouncing around on the dirt road (loaded with cells). I'm afraid I believed them since they got lost leaving Palomar Mountain on a previous work party and ended up in the Pala Indian Reservation. We started the day at 7:30 am and finished at 6pm.

- BK -

WORKPARTY- Dec. 9. John-WB6IQS, Matt-N6OEI and YL friend, new members Jim-KC6PAS and XYL Diane-KC6PAP, and Stan-W9FQN also showed up to work. John worked inside the repeater building and ran AC to the battery shed for the battery chargers. Stan, Matt, and Jim worked on the new cells connecting them up into batteries of two 1680 Ahr strings of seven cells of 2.05v each resulting in 14.35v (close to most car systems of 13.8v) for each string and 3,360 Ahr total for the battery. Our Motorola repeaters seem to want to quit working around 11v so the extra voltage helps us use the full potential of the battery. Remember that Ahr means Amps X Hours and that you can load the battery with 1A for 3,360 hours (140da), 3.36A for 1,000 hours (42da), 33.6A for 100 hours (4da), or 3,360A for one hour! To put things in perspective, most HT battery packs are rated at 0.5Ahr or our new battery is equal to 6,720 nicad battery packs. Most car batteries are usually 80-100 Ahr.

New battery chargers were connected to each string after we added temporary AC to the shed. One of the batteries received a small crack in its base during moving which resulted in the loss of some sulfuric acid. The acid was siphoned and the case tilted so that it could be "soldered" and epoxied. The acid

was then replaced.



We are trying to treat the 5,000 pounds of batteries with respect by wearing rubber gloves, face masks, and rubber aprons. It sure is hard to work that way especially when you have your nose to the grindstone. We also have a liberal supply of special eye wash and plenty of baking soda. We finished the day at 5:30pm.

- BK -

WORKPARTY- Dec.14. Erik-KA6UAI and Stan-W9FQN when to P.Mt. to change the autopatch antenna from a pole next to the repeater building to a higher spot on the 80' tower to improve reception for Jerry-WB6FMT's autopatch in Vista. Erik installed new crystals (\$80) in the 147.13 machine to cure drifting, replaced a jumper of coax that had water in it, and checked everything for the long winter months. Stan sealed the inside of the battery shed with duct tape, poured 5 gal of distilled water into the battery, put a variac (tnx KK6LX) on the battery chargers to adjust the "float" current to the battery banks to about 1.5A for each string, and checked the repair job on the cracked cell which still leaks slightly. It was a beautiful day on the mountain. There was the smell of fallen leaves, the sun was shining warmly, and you could tell that winter in the mountains was not far off.

- BK -

Our repeaters in the PARC bunker on Palomar Mt. at 5,600' cover 2,000 sq.mi. of S.D.Co. and 150+ miles out to sea. It is club policy that these repeaters are open repeaters FOR CLUB MEMBERS AND OCCASIONAL TRANSIENT USERS. Be FRIENDLY to those that you talk to and invite them to support the club with their membership. You can check their membership in PARC by asking them if they have seen something in the most recent SCOPE.

A U T O P A T C H E S

WA6IPD/R: Art Rideout.....WA6IPD  
FALLBROOK + surrounding towns

KA6UAI/R: Erik Thompson.....KA6UAI  
ENCINITAS + surrounding towns  
\*KA6UAI/R: Jerry Hauser.....WB6FMT  
VISTA + surrounding towns  
\*W6NWX/R: Dennis Vernacchia....N6KI  
SAN DIEGO + surrounding towns

The WB6FMT (Jerry Houser) autopatch on KA6UAI will probably go on line January 15th. Note that it has a different access code to enter the patch. Also there is a good possibility that many of the Carlsbad and Oceanside prefixes listed under WB6FMT will not be available even though listed since they are already covered by KA6UAI. A final listing will be given in the February SCOPE. The rule at present is that you should use the KA6UAI patch for all those numbers you have been usually calling and the WB6FMT patch for new numbers in Vista. San Marcos, Escondido, Valley Center, Bonsall, and Fallbrook. If you are in range of the WA6IPD in Fallbrook, we would rather have you use that patch rather than the WB6FMT patch in Vista.

To put it simply. There are two autopatches on KA6UAI/R. One is based in Encinitas (KA6UAI) and the other in Vista (WB6FMT) which is the reason that they need different access codes to "steer" the patch audio from KA6UAI/R to the proper autopatch. They have separate equipment and phone lines at those locations. The only thing they have in common is the repeater (KA6UAI/R) on Palomar Mountain.

The N6KI patch, at the home of Dennis Vernacchia, is slated to be in operation sometime in the early Spring covering 150+ prefixes in the San Diego area. Dennis now has about 30% of the equipment needed for this project. The PARC patches should cover almost all of the county covered by our repeaters with non-toll calls. The autopatch capability is deemed necessary for ro emergencies and for use by the Amateur Radio Emergency Service



(ARES).

(copy for car &amp; home use)

To use the autopatches, announce-&gt;

1) (UR CALL) WITH AUTOPATCH ACCESS  
 2) TT #07(KA6UAI) or 4321(WA6IPD)  
 3) drop ur carrier, then dial number  
 4) talk to your party and end patch  
 #07(KA6UAI), #06(WB6FMT or #06(WA6IPD)  
 6) announce (UR CALL) CLEAR OF PATCH  
 =====  
 KA6UAI: 147.130(-) (107.2) u#07-d#07)  
 (O)side, Cardi(f), (L)ucadia, (D)el Mar  
 E(n)cinitas, (C)arlsbad, San(M)arcos  
 (R)ancho Santa Fe & (S)olana Beach  
 259d 411 431oc433o 434c 436n 438oc  
 439o 471m 481d 591s 632cn720oc721o  
 722o 729oc744m 753fn754 755d 756r  
 757o 759r 792d 793 853 931oc942n  
 943n 944n 966o 967o Emq. only 911

Non-emergency:

CA Highway Patrol (O'side) 757-1675  
 Sheriff's department is 753-5591  
 AAA road service is 753-8917

=====  
 WB6FMT: 147.130(-) (107.2) u#06-d#06)  
 (Escondido), Carls(B)ad, (O)'side,  
 San(M)arcos, (V)ista, Valley(C)enter  
 431ob432e 433o 434o 438o 439o 471m  
 480e 489e 591m 598v 630v 720o 721o  
 722o 723f 724v 726v 727v 728f 729o  
 731f 738e 739e 740e 741e 743e 744e  
 745e 746e 747e 749c 751c 754o 757o  
 758v 931ob940v 941v 945v 966o 967o

Non-emergency:

CA Highway Patrol (O'side) 757-1675  
 Sheriff's assistance is 728-1113  
 AAA road service is 758-5570

=====  
 WA6IPD: 146.175(+) (107.2) u4321-d#)  
 (F)allbrook, (O)'side, Paum(a) Vily  
 (P)endleton, Valley (C)tr, (V)ista  
 430o 433o 434o 439o 598v 630v 720o  
 721o 722o 723f 724v 725p 726v 727v  
 728f 729o 742a 749c 757o 758v 940v  
 941v 945v 966o 967o & 911 Emq

Non-emergency:

CA Highway Patrol (O'side) 757-1675  
 Sheriff's assistance is 728-1113  
 AAA road service is 758-5570

PHONE QUESTION: Can you legally record a phone conversation? "Yes," says the FCC (Rule 64, subpart E) - as long as you let the other party know that you're recording. A beep

every 15 seconds is not necessary. Verbal notification at the beginning of the taped conversation will do just as well. The local utilities commission has final say on the matter.

REMEMBER: 911 emergency calls need to indicate the call is via Ham Radio autopatch. The KA6UAI autopatch will show up on their screen as the "Palomar Amateur Radio Club" but with Erik's address.

DO NOT give out the 3-digit UP DOWN autopatch codes over the air but if needed, feel free to dial the patches up for non-members. These codes will be changed as needed.

## F O R S A I L



If you have an item for sale, bring it to the SALE TABLE at the club meetings, tagged with name, call and minimum price, if any. The Club takes 10% and you go home with \$\$\$. PARC takes no % on the ads below and they are FREE to club members. The month of first being run is indicated by date at the beginning of the ad. PLEASE tell us when the item(s) are sold. Deadline FORSAIL items is the 15th of the month addressed to the editor at his home address.

SWAPMEETS: Dennis-N6KI-price\$;  
 John-WB6IQ6-VHF-UHF-Hardline; Kerry-N6IZW-Microwave; Paul-KB5MU-Pkt-Computers; and Bill-KB6MCU-ATV.

- BK -

(12-3) PARC.V.Tubes, all kinds, checked; Larry-KC6PEN-439-4109.  
 (Larry, you ought to see the pile of PARC tubes that I have at HILLSIDE ELECTRONICS!)

- BK -

(11-20) Telex 34' crankup twr/w Ham II rotator \$400; Fred KB6NRL-727-5429.

- BK -

(11-19) Kenwood TS-711A 2m xcvr, extras \$795; Westcom 2m amp, 15in-90out \$70; Janel 2m preamp \$30; Drake WV-4 Wattmeter \$50; Ten-Tec model 23B 2KW ant tuner \$295; Duane-AA6EE-789-3674-eve.



# The Code

- BK -

(11-19)'91 North American or International Callbook \$23.99 or both \$45.99; '91 ARRL Handbook \$21.99; add 7% tax and \$1.65 1st book & \$.75 additional books; trade-ins '90 callbooks accepted; Check to Duane-AA6EE-16832-Whirlwind-Ramona-CA-92065-789-3674eve.

- BK -

(11-18) ICOM BC-35 rapid charger \$72; BP-8 super 9.6v @ 1200mah pak \$54; CP-1 \$11, CM-4(BP-4) \$13, all unused!; ICOM BP-3 & wall charg (BC-25u) \$34; unused COMM SPEC SS-32-SMP encoder \$25 (good for PL 107.2Hz) \$25; Mike-WB6CSH-leave msg 283-2447.

- BK -

(11-1) IBM Code tape for code practice sessions, free; Stan-W9FQN-749-0276.

- BK -

(10-20) ICOM-781 Xcvr; Telex Tail Twister Rotator \$250; Sure 444 desk mic \$25; Kenwood TS-711A 2M Xcvr; Westcom 2M 90W Amp; Janel 2M Preamp; Drake P/S; B&K mod 1460 10 MHz Oscilloscope \$100; B&K mod 1400 scope calibrator \$150; Heath mod 2232 component tracer \$100; Duane-AA6EE-789-3674.

- BK -

(10-16) 4250 watt electric start portable alternator fueled by gasoline or natural gas. 1984 model, 8hp Tecumseh, dual voltage 240/120 (17.7-35.4A). Minimal run time. Needs new rotor. Pd \$650, sell \$125; Mark-WA6DOC-945-1367.

- BK -

(10-12) Sell or trade Yeasu FT-221 all mode 2m base radio. Yeasu SP-901P phonepatch, stock hand mic, Shure 444 desk mic & CTCSS dip switch \$350; KC6CZO-Mark-742-1539.

- BK -PALOMAR ARC; guy rope for antennas and masts from 260-770-1790 pounds breaking strength (4-8-12c/ft and 3/32-3/16-5/16" inches); HAM POSTAGE STAMP REPLICA PINS, \$5/ea (great for Christmas gifts); Stan-W9FQN-749-0276.

## W A N T E D

(12-11) a member who can send computer code Friday evenings over 146.730.

## Try it! You'll like it!

- BK -

(12-8) the club is looking for member who would be interested in helping to build a 10m beam; 6 elements, 31' boom, and 9db gain. A 9db gain would make a 100 watt transmitter sound like 800 watts ( $9/3=3$ ,  $100+3db = 200$ ,  $+3db = 400$ ,  $+3db = 800$  watts). The beam would be used for contests; Sweepstakes, 10m contest, DX contest, and, of course, Field Day.

- BK -

(11-16) Chuck-KG6CQ is interested in talking with someone who is using a Mack Plus computer on Packet; Carlsbad 720-9852.

- BK -

(9-7) Paul-KZ6X is looking for someone to help a technician with house calls. Time would be 8:30 to 5:30 on Wednesdays and Fridays. Call Paul at North Co. Service Center, 436-2900.

- BK -

(10-29) ICOM IC-22A; Dennis-N6KI-271-6079.

## D O N A T I O N S

If you don't know what to do with it, donate it to the club. Donated items are sometimes used in club projects or are taken to a swap meet for sale with the resulting \$'s going into the club Equipment Fund which pays for equipment used at the repeater site or for Field Day.

## M E M B E R S H I P I N F O

NEW: Richard West-W6IUG(3vr) S.D.; Allen Toth-WA3HHC(2vr) Vista; Don Millsop-KC6OHP-La Mesa, Mat Lunati-N6OEI; Mike Doyle-KC6KCQ Palomar Mountain; Jim-KC6PAS and Diane-KC6PAP Kirkes Palomar Mountain; Philip Blais-N6KXD Penasquitas; Dan (Haar) Rowcliffe-WA6QWU S.D.; Erwin Bernhard-K6ZOO San Marcos, Earl Corriqan-N9KAB, Stewart Miller-N6WSW.

RENEW: Earl-W6YJU; Aubry-W6ODJ; Jim-KF6QH; Olivia-WA6WTZ, John-NW6W.

CHANGED: Sal-N6YZL -> KK6RX.

If ur adr label is PRC9012



(vr/mo). THIS IS UR LAST ISSUE! LX9503 means your amateur license expires March of 1995. If you don't have an LXvmm, contact Jo-KB6NMK and get your records up to date so you don't forget when to have your license renewed. Use the evening traffic net to contact KB6NMK if you don't make meetings.

If your address label reads other than 9107, 9207, or 9307, contact Jo-KB6NMK for the correct amount of dues to get you "back-in-step" WHEN it is time for you to renew.

### PARC VE TESTING

FCC LICENSE EXAMS in N.County are conducted by the PARC VE Team at the Joslyn Sr.Ctr. (behind City Hall) 111 Richmar Ave. San Marcos on the 2nd Sat. of the month at 1000 Hrs. Walk-ins are not accepted.

#5-DECEMBER 8th: 11 applicants, 12 elements, & examinees passed 6 elements = 50% el pass rate. There were two "no shows."

Since August '90: 48 app, 77 el, 48 el passed = 62% el pass rate.

NOVICE->TECH: Larry Bishop (pend), Jan Houser-KC6LRH, Jack Mell-KC6PAW,

and James Pratt KBBKW.

TECH->GEN: Curtis Tavior-N6XXU.

OTHER: Gordon Snow-N7P08 passed element 3B.

EXAM TEAM OCT: Paul Williamson-KB5MU, Mark Moskowitz-AA6TR, Jack Newlove-AA6UQ, Dan Pugh-WA6HYB (code), Jack Hanthorn-KI6JM (reception), and Rusty Massie-AA6OM.

Other SANDARC-VEC exams: 1st Sat.El Cajon, 3rd Normal Heights, 4th Chula Vista, & last Escondido ARS.

This past year the total number of amateur operator licensees grew 6.1% from 464,800 to 493,292. Here is the breakdown by license class as of October 1, 1990:

Extra	52,847	Tech	125,217
Advanced	104,365	Novice	91,705
General	119,158	Total	493,292

Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTO-COPIES) and copies of license(s) and certificate(s) of successful completion, if any, to SANDARC-VEC, PO Box 2446, La Mesa, CA 92044 10 days B4 the test date. Bring ORIGINALS of licenses & certificates. Questions: call SANDARC 465-EXAM.

de A A 6 O M, Rusty Masse



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50% OFF labor to PARC members

PARC member. Repairs by appointment

ADS HELP SUPPORT THE "SCOPE"

### GENERAL NEWS

PARC participated in the ARRL 10m SSB contest 7,8, and 9th of December from the Field Day site in Valley Center using the Taco Wagon's 45' crankup mast and the club's rotatable 4-el 10m beam. The group was able to

make 617 contacts, work 100 sections for a total of 130,000 points which is respectable for the club's first effort. Some 39 DX stations were worked. Among those were: 4U1UN (UN HQ), YW6W, 8P9EM, GD5UG, and VP2EXX. If we do the DX contest in January, it would be an excellent opportunity



for some of our newer members to "work the world" under the watchful eyes of an experienced operator.

Participating were: OPERATORS, Brian-KF6BL & Chris. Paul-KZ6X, Stan-W9FQN, Karl-N6WLX, Jack-KI6JM, Benton-KK6LX, Dennis-N6KI, Scottie-KH6T1, Mark-AA6TR (CW), Nancy-KC6FZN, Curtis-N6XXU, James-KB8KVV, John-N6URW, Joe-N6YMD, Curtis Zinn (duped), Todd-WD6AHV, Earl-KC6KTB, Karl-N6WLX: SUPPORT, Stan-W9FQN, Orlando-N6QVW: VISITORS, Steve-N6UIA, Terry-N6UZH (yum-yum-cake), Ellen-N6UWW, and Richard-KC6PPM. PARC members participating in the event each receive one (1) participation ticket for the drawing at the club picnic in August.

A good time was had by all. KZ6X brought up his trailer for sleeping. KF6BL is probably in Saudi now with the Marines. Karl was chief Hancha for the event and gets credit for coordinating the operation even if he did get a bad cold which limited his participation.

For PARC members who live in areas with antenna restrictions, have equipment problems, or are new to amateur radio, these contests allow you to operate the latest equipment with excellent antennas. We usually start the "in-experienced" out with logging so that you can see how the more experienced operators function. When you feel confident, you can then be assigned a position at the microphone. We need experienced operators for when the BIG ONE COMES!

Anyone interested in operating W6NWG for the CW and/or the Phone DX contest?

- BK -

Phil-KC6DEI is looking for your blood! Around this time of the year the blood banks are hurting for blood and Phil would like to get a group together from PARC to give blood on the 19th of January in Vista. He will try to firm things up at the January meeting but if you can't make it to the meeting, give him a call at 745-7734 (Escondido).

- BK -

SAUDI REPORT: It looks as if



Greg-WB9MII is headed for the sand box and Eric-KB6PO is still headed home aboard the USS Independence. Brian-KF6BL left 12-12-90. Richard Earl-N6777, son of Jerry Earl-KJ6ES, is in Saudi now with an address of:

PFC Gerald Richard Earl  
#564-89-7239  
16th MP BDE  
759th MP BN  
984th MP Co.  
APO 09657-6420



Jerry donated to the club a 40' crank up tower before he left for Vegas this past year. Thanks to Ron Earl-W6TXK, Jerry's brother, for the address.

Brian Donaldson-KB6BL, a Marine from Camp Pendleton, has an address of:

Sgt. R. B. Donaldson  
HQ SVC BN 1st FSSG  
FPO S.F. 96608-5702

Eric Johnson-KB6EPO and the USS Independence should be here for Christmas.

- BK -

## NETS

### 146.73 WEEKLY EVENTS

M->S 2000 S.D.Co Traffic Net  
(except 1st Wed club meeting)  
MON 2100 Microwave Net  
TUE 2100 S.D. Pkt. Voice Net  
WED 2100 Open, suggestions?  
THU 2100 Ham Help Net  
FRI 2100 Code Practice Net  
SAT 1000 Sailboaters check-in  
SUN 0830 ARES Net  
SUN 1000 SSS (Sailboaters Net)  
MON 1930 RACES Net on 147.195

The principle of counting words as sent in messages can be best illustrated by a few examples, as follows:

New York City .... 3 words  
NYC..... 1 word  
Seventy three..... 2 words  
73..... 1 word  
H. O. Townsend.... 3 words  
W1YL/4..... 1 word



Do not waste time in traffic nets arguing about "how to count." We are

only trying to determine that all of the message has been sent or received.

Remember that our evening traffic nets are "training nets" so don't be afraid to handle traffic. The net control is more than willing to help and instruct.

- BK -

**CLUB POLICY:** Groups wishing to conduct nets on the PARC repeaters need to contact club officials before using the repeaters. This is so that we know the name and address of the responsible person and so so we can advise them on the proper use of the repeater. This is usually done 3-4 weeks before the event and approved by the executive committee or the president in consultation with another officer. Almost all requests are approved.

## OTHER NETS

The RADIO AMATEUR COMMUNICATIONS EMERGENCY SERVICE (RACES) NET meets each Monday at 7:30pm on 147.195. Except for net nights, the RACES repeater uses a PL of 114.8 Hz but not for this net. Contact Frank-WB6HFE for info.

## DISCLAIMERS

Meetings at LINCOLN MIDDLE SCHOOL are NOT a function of the Vista Unified School Dist. & are NOT sanctioned by the school Dist. Board of Trustees. See!

Unless specifically stated to be club policy, opinions and statements set forth herein do not necessarily represent club policy. Nor do they necessarily represent the opinions of the authors on other occasions or under different circumstances. The Editor further disclaims any knowledge of anything - real or imaginary. Verily.

You can copy anything out of the SCOPE you want as long as you give credit to THE PALOMAR AMATEUR RADIO CLUB, Inc., and author(s).

## POTPOURRI

Does anyone know anything about RADIO ENGINEERS being a new source of ham radio products? (3941 mt. Brundage Ave., S.D., CA., 565-1319)

- BK -

**CLIP ART:** If any of you have any "clip art" such as we have been using in the SCOPE lately to use up "blank" space, please give it to me at the next meeting - or send it. All items will be considered (W9FQN).

- BK -

Who in the club has held the most call signs. For example, I have held in order: WN9FQN, W9FQN, and XE0FQN. I also held a MARS call but can't remember what it was. We will publish the three longest lists.

- BK -

If you have a business and would like to advertise in the SCOPE, contact Jo-KB6NMK or Stan-W9FQN. Business cards are \$5/issue or \$40/page. Ads do not need to be about amateur radio related items - as you have probably noticed.

- BK -

New photovoltaic cells now convert 31% of the energy in sunlight into electricity: Sandia National Labs in N.M. Older cells operate at 18-20% efficiency.

- BK -

Nearest ICOM repair is 3150 Tremier Dr., Suite 126, Irving, TX 75063. Ph 214-550-7525 and they suggest sending UPS.

- BK -

**OFFICIAL CLUB BADGES:** see John Tentor, W6DLQ, mtgs or 672-3891.

- BK -

**TESTING THE DISABLED:** The administering VEs may require a physician's certification indicating the nature of the disability before determining which, if any, special procedures must be used (FCC Rules Part 97.509(h)). "The Commission's policy is to exempt from the 13 and 20 wpm examinations persons holding a current, or within the renewal grace period, Novice, Technician, General, or Advanced Class operator license who, because of their severe handicaps, cannot pass these



examinations even when the above special accommodation procedures are used (FCC ltr/ARRL 8-10-90 ltr).

- BK -

EARS T-HUNTS: Contact Jo-KB6NMK for latest information. Hunt freq. is 146.565 at 0900 in Escondido or Rancho Bernardo on the 3rd Saturday of the month. Check 146.880 when near Escondido for more info. If you are just getting started, ride along with an "experienced" T-hunter.

- BK -

INTERFERENCE: IGNORE it. Don't give the jammer what he or she craves - notice and attention. Carry on your QSO or sign off or move to simplex, but do NOT acknowledge the crazies. At the same time, try to hear the interfering signal on the input of the repeater and, if possible, determine the direction of the source. You can also move "up one" to 147.130 to complete your contact.

- BK -

JOIN THE ARRL: When joining or rejoining the ARRL, do it via the Club which will receive a modest stipend otherwise going to the ARRL. Make your check payable to the Club and get it, with your membership application, to our Treasurer, Ron-WI6B. NEW ARRL membership applications which include the PARC number (#1703), garner the Club \$5 - and it doesn't cost you a fat farthing more!

- BK -

N 6 K I's A D

(10-12) ICOM 02AT 2m HT w/BP-B battery, leather case, DC chor, spk mic/mic headset \$250; Dennis-N6KI-271-6079.

- BK -

SWAPMEETS: Contact a club member about Saturday swap meets: Santee-1st, Cucamonga-2nd, Chatsworth-3rd, and TRW-last.

- BK -

From the "San Diego County Amateur Directory 1955-56" published by the Coronado Radio Club, the following club stations were listed:

W6HTJ - AZTEC ARC  
K6WEQ - CA NATL GUARD RESERVE  
K6HGA - CHULA VISTA AC  
K6DBS \* CONVAIR ARC  
W6IKV - DANA ARC  
W6IAC - ESCONDIDO H.S.  
K6JCC - GILLESPIE RC  
W6MGJ - HELIX ARC  
K6WDK - H&H BTRY 251ST AAA GRP  
W6CNU - HOOVER HIGH SCHOOL  
W6YZB - KEARNEY HI SCH RDO CLUB  
K6CQZ - LINCOLN HS RDO CLUB  
K6HAI \* NORTH SHORES ARC  
W6NWG \* PALOMAR RC (PARC Inc)  
W6RDF - PT LOMA ARC  
K6HQA - ROHR AR STATION  
W6EVE - ROOSEVELT JR HI SCH  
W6GGK - SAN DIEGO ARC  
W6GER - SOLEDAD ARC  
K6DDU - US COAST GUARD AIR STN  
W6IAB \* US MARINE CORPS  
W6IAE - US MARINE CORPS  
W6HQX - US MARINE CORPS COMM SEC  
W6YDK - US MARINE CORP RECRUIT DPT  
K6NMB - US MARINE CORPS RESERVE  
W6BSD - US NAVAL AMPHIB. BASE  
W6IQD - US NAVAL AUX LANDING FIELD  
W6KXN - US NAVAL COM STN (R)  
W6OLJ - US NAVAL COM STN (T)  
W6ZSC - US NAVAL FAETU PAC CLUB  
W6DCM - US NAVAL FLEET SONAR SCH  
W6ISE - US NAVAL STATION  
W6KWE - US NAVAL TACTICAL AIR CONT  
K6NCB - US NAVAL RESERVE ELEC OFF  
K6NRT - US NAVAL RESERVE SURF BATT

\* Groups still in operation that we know about although I don't know if they still have the listed call sign except for W6NWG and the camp Pendleton station, W6IAB. If you have info on the others, please pass it on to us. What ever happened to the other Marine and US Naval stations? I don't know of ONE high school station and the only Jr High station that I know of is the one at Potter Jr.H.S. with Phil-WF6L being the advisor. Back in Elkhart, Indiana, I was advisor to a high school station, K9IXS, for 15 years. Where are all of the High School Stations in CA?

- 73 W 9 F Q N -



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PARC members

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# PARC APPLICATION

Mail form with \$\$ to PARC, P. O. Box 1603, Vista, CA 92085-0530 or hand to KB6NMK, at club meetings. Dues (including SCOPE) are \$12 a year plus \$9 for each additional licensed family member. Dues are prorated for NEW members: Aug, Sep, Oct \$12; Nov \$9; Dec \$8, Jan \$7, Feb \$6, Mar \$5, Apr \$4, May \$3, Jun \$2, Jul \$1. Old members (1yr) \$12. Consider paying for two or three years at a time. Call, name, and complete address are required. Telephone number may be un-unlisted in roster if requested. Other information requested below may be omitted if you feel uncomfortable providing it to the club. Complete and cut on slashed lion.

Call \_\_\_\_\_ Name \_\_\_\_\_  
 License \_\_\_\_\_ Home \_\_\_\_\_  
 Expires \_\_\_\_\_ Address \_\_\_\_\_  
 License \_\_\_\_\_ 1st 5 \_\_\_\_\_ +4 \_\_\_\_\_  
 Class \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Home \_\_\_\_\_ Home Phone \_\_\_\_\_ Wrk Phone \_\_\_\_\_  
 Old Call \_\_\_\_\_ Phone# \_\_\_\_\_ Confidential yes-no Wrk \_\_\_\_\_ Conf.Y-N \_\_\_\_\_  
 (ie., pg 8L, D6)  
 Year 1st licensed \_\_\_\_\_ Birth date \_\_\_\_\_ Thomas Bro. loc.,pg # \_\_\_\_\_ coord \_\_\_\_\_  
 Names & call of family members in PARC \_\_\_\_\_  
 ARRL \_\_\_ RACES \_\_\_ ARES \_\_\_ Red Flag \_\_\_ Blood donor \_\_\_ Type \_\_\_ Comments: \_\_\_\_\_

//////////////////////////////////// slashed lion //////////////////////////////////////

\*\*\*\*\*  
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 \* Subscription: \$3.00 per year. \*  
 \* - - - - -

\* POSTMASTER: Send changes to: SCOPE, \*  
 \* P. O. Box 1603, Vista, CA. 92085-0530 \*  
 \* \* \* \* \*

SPOT LIGHT ON: Jan 2nd Mtg, B A T T E R Y,  
 Auto-patches (new), for sale, KB6NMK,  
 Saudi report

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# Scope

W6NWG



## Palomar Amateur Radio Club Inc.

POST OFFICE BOX 1603, VISTA, CALIFORNIA 92085-0530

W6NWG/R 146.730(-)

KA6AUI/R 147.130(+)(Patch)(107.2)

W6NWG/R 449.425(-)

WA6IPD/R 146.175(+)(Patch)(107.2)

W6NWG/R 145.050(Pk+)

WD6HFR/R 224.90(-)

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F E B R U A R Y 1 9 3 6 t o F E B R U A R Y 1 9 9 0



President :	Stan Rohrer	W 9 F Q N	Valley Center	749-0276
Vice Pres :	Jack Hanthorn	K I 6 J M	Vista	598-0420
Secretary :	Nash Williams	W 6 H C D	Bonsall	728-3574
Treasurer :	Ron Wilhelmly	W I 6 B	Rancho Santa Fe	756-3133
Editor :	Stan Rohrer(temp)	W 9 F Q N	Valley Center	749-0276
Membership:	Jo Ashley	K B 6 N M K	Escondido	741-2560



F E B R U A R Y 6th meeting(1st Wed) is at Lincoln Middle School Cafeteria in Vista. 1-5 or 1-15 to Rd.78, Escondido Ave(Sunset) ramp, north on Esc.Ave, after 2nd light between Eucalyptus and E.Vista Way. Talk in .730.

### What you should know:

#### H A M C A L E N D A R

Feb 6 Wed - PARC Club Meeting  
Feb 9 Sat - PARC VE Test, AA6OM  
Feb 14 Thu - PARC Club ExecMtg  
Feb 14 Thu - Valentine's Day  
Feb 16 Sat - EARS DFing,ck 146.88  
Feb 16-17 - ARRL Int.DX Cont. CW  
Feb 22 Wed - Deadline for SCOPE  
Mar 2-3 - ARRL Int.DX Cont.SSB  
Mar 30-31 - CQ WW WPX ContestSSB  
May 25-26 - CQ WW WPX Contest CW  
(Send calendar items to W9FQN)

#### C O N T E N T S

Code, Experts, Exec. Meeting .. 2  
Pres. Msg., Special Recognition 3  
W6BL(SK), Ads, Repeaters ..... 4  
Autopatches ..... 5  
Autopatches, FORSAIL ..... 6  
Membership, VE test, Gen News . 7  
Ads, Nets ..... 8  
Potpourri ..... 9  
TS-32 diagram, Ads .....10  
Ads and Application PARC 11 &12

#### N E X T C L U B M E E T I N G

Our next club meeting will be FEBRUARY 6th at 7:30pm in the Lincoln Middle School on Escondido Avenue in Vista. The program will be by one of our club members, Harry Hodges, WA6Y00, who will talk on SSB DXing: Confessions of an Addict. Also where to find and work it. Harry is a North County DXer who has many countries to his credit. Find out what it takes to be a SSB DXer. (for new hams, SSB means voice Single Side Band)

SHOW AND TELL- John-WB6IQS will have his new Allnco dualband HT at the meeting for all to see. Why don't YOU consider bringing something for SHOW and TELL, new HT, portable computer, something homemade, etc. or share some new information with us. Don't forget the FOR SALE TABLE!

#### L A S T C L U B M E E T I N G

Attending were 72 members and 7 guests who enjoyed the coffee and goodies. Art-KB6YHZ supervised the coffee.

### Refreshments

The program consisted of Don Huff-W6JL of Poway giving an excellent talk on AMTOR. Many of our club members are starting to show up at 7pm for eye-ball QSOs before the 7:30 meeting. There is nothing like one-to-one contact for discussions of your amateur radio problems.

W A N T t o B E a H A M ?  
(or Dial-a-Ham)

If you or a friend are interested in becoming an amateur radio operator or in joining the Palomar Amateur Radio Club, please contact one of the ELMERS listed below for more information:

BONSALL:Nash Williams:W6HCD:728-3574  
CARDIFF: Duane Stedman:WB6R:753-4821  
CARLSBAD:EleanoreCall:N6QJE:729-0850

# ICOM

# MONTH

We Support Our Troops:

COME HOME SOON!

DEL MAR:GerrySanford:KC6BJM:755-5244  
 ESCONDIDO: Jo Ashley:KB6NMK:741-2560  
 ENCINITAS:DaveCopley:WA6HQM:753-2605  
 FALLBROOK:ArtRideout:WA6IPD:728-6834  
 La MESA: Roger Jaffe: N6UUW:697-6025  
 LAKESIDE:Mac McBride:WB6GXR:561-2211  
 LEUCADIA: Bud Lincoln:KG6VX:436-9983  
 LinVista:PaulWilliams:KB5MU:571-8585  
 MIRA MESA: Ron Earl: W6TXK:566-1959  
 OCEANSIDE:LarryGugle:KC6PEN:439-4109  
 OCEANSIDE: Lloyd Hunt:W6TFB:757-9374  
 PAUMA-PALA:Mark Ross:KC6CZO:742-1539  
 PointLom:MickMcDaniel:W6FGE:222-3912  
 POWAY:MarkSchlessingerN6NNI:748-8391  
 RAMONA: Vernon Leming:AA6UU:789-3070  
 RanchoPen:John Tentor:W6OLQ:672-3891  
 RanchoS.Fe:RonWilhelmy:W16B:756-3133  
 S.D.:Dennis Vernacchia:N6KI:271-6079  
 SanMARCOS:RustyMassie:AA6OM:747-5872  
 SanMARCOS:FloydHarvey:W6JSP:741-8391  
 SolanaBe:LouBroadbent:N6CKQ:755-9179  
 VALLEYctr:Stan Rohrer:W9FQN:749-0276  
 VISTA: Jack Hanthorn :K16JM:598-0420

PARC members: if your area is not represented above and you would like to serve as an ELMER in your area to get someone started in amateur radio, please contact W9FQN. Your responsibility would be to introduce them to PARC and club meetings, Ham Radio Outlet, Radio Shack Ham "starter" packages, etc., and other local amateurs. You would serve as "their" first local Ham contact. You need not serve as their ELMER unless you want to do so. Your main function is to tell them "where to go."

Ron-W6TXK sometimes conducts classes in the MIRA MESA area so contact him for the latest information on the starting of new classes.

POINT LOMA NOVICE INSTRUCTION and TESTING: contact Mick McDaniel, W6FGE and friends, 222-3912.

The club has some code tapes available if beginners find some of the "starter" packages a little too expensive, but they still need a test booklet. We also have some IBM

compatible disks of a great code program available at club meetings. If you have a good code program, please make up a disk with it and several other programs for us to get new hams started. The club will exchange disks with you. We need programs for Apple and C-64's. We presently have programs for IBM and Radio Shack Mod III & IV.

One of our members from Fallbrook, Ray-KK6CA, has consented to make up special code tapes for those wanting special types of code practice material. Please bring in your blank cassetts and be prepared to tell Ray what type of practice you want.

For those club members who borrowed code disks from W9FQN or KB5MU, we would like to have you make copies of the disks and return them to us at the next meeting so that we can make the disks available to other members and prospective amateurs. Thanks.

- BK -

#### 5.25" CODE and QUESTION DISKS:

	IBM	C-64	Price
Novice	IBM01	COM01	\$14.95
Tech	IBM02	COM02	\$14.95
General	IBM03	COM03	\$14.95
Advanced	IBM04	COM04	\$19.95
Extra	IBM05	COM05	\$19.95
Part 97	IBM97	-----	\$ 9.95

(+ \$2.50 shipping)

73 Magazine, Forest Rd, Hancock, NH 03449.

These disks contain code programs and include updated FCC questions, multiple choice answers, formulas, schematic symbols, diagrams, and simulated VE sample tests.

#### CONSULTING EXPERTS (found on 146.730)

W9FQN : Mexican license; Nicads  
 WD6FWE: C-64 computers > Commodore  
 WA6HQM: 10 meter 10-10 Club Infor  
 WB6IQS: Heathkit; Motorola; Rpters  
 N6KI : Swapmeets; Used Equip. \$\$  
 W6INI : ARRL; ARES; Fire Patrols

N6IZW : Microwave; Test Equipment  
 KB6MCU: Interference; Filters; ATV  
 KB5MU : Pkt; Satellite; Computers  
 KB6NMK: Direction Finding Info.  
 W6OLQ : Ping Pong; Badges; HP Plot  
 AA6OM : VE Testing: Tests/Helpers  
 KC6PEN: Ham Help NetThur.Eve;Tubes  
 K16RF : Mobile noise filtering  
 N6TEP : U.S. Coast Guard Auxiliary  
 AA6TR : Sailing / Boating Antennas  
 N6UUW : Radio Controlled Airplanes  
 N6RVO : National Traffic System  
 WQ6V : Cable TV problems; Coins  
 ND6W : Test Equipment,Programming

Check ad sections for professional help on radio repair: N6GZI, KC6PEN, and HRO. If you would like to have your call added to the list, contact W9FQN with your speciality area.

#### EXECUTIVE MEETING

The Executive Committee, consisting of the officers of the Club and the Chairmen of its committees, meets at 7:30 p.m. on 2nd Thursday after the club meeting at the home of various of its members. You are welcome to attend these meetings. Contact any executive member for additional information on executive committee meetings. The January meeting was at Benton-KK6LX's QTH and we all enjoyed the cookies.

DISCUSSED: finances, programs, autopatches (4), TASMA & WA6IPD/R, non-members using the repeaters and autopatches, SCOPE costs, future links, phone filters (\$200est), etc.

APPROVED: electric stapler (\$30est), 450 filters (\$250est), new autopatch codes, and cards to be sent to more than "transient" users of PARC repeaters.

IN ATTENDANCE: (officers) Stan-W9FQN, Jack-K16JM, Nacho-W6HCD, and Benton-KK6LX; (others) Jo-KB6NMK, Erik-KA6UAI, and Steve-N6UIA.

 Happy Valentine's Day

LARRY E. GUGLE, KC6PEN (619)439-4109  
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----- ADS HELP SUPPORT THE "SCOPE" -----

de EL PRESIDENTE #11 and assorted small items.

Repeaters sometimes seem like a REAL big part of our club in the last 17 years and while we do not intend to de-emphasize their importance it should be noted that the club has supported a good club program each month, increased support of ARRL Field Day, ARRL Sweepstakes, ARRL 10m SSB/CW, and Amateur Radio Emergency Service (ARES) preparedness (antennas, towers, batteries, training, trailers, etc). We want to be known as a "general purpose club." Amateurs join PARC because they like the club atmosphere and activities, or some join just to use the repeaters - and they never attend meetings. If we don't meet your needs, please let us know what WE can do to improve things for you.

A survey of clubs in the S.D. area indicates that many repeater club memberships run from \$15-50 per year (some have initiation fees of \$10+) while our general purpose club membership runs \$12 per year which includes: a club program, emergency programs, contests, Field Day, Picnic, six repeaters with two autopatches (soon to be four), and of course, THE SCOPE. The club owns the following: property on Palomar Mountain, two trailers (half interest in another), five portable crankup towers, repeater equipment,

PARC has been able to survive without increasing dues because of the following: SCOPE ads, repeater site rentals, and donations from club members and local businesses. We hope that each and every one of you will invite the amateurs you talk to to join PARC and its club activities. Repeater users need to be especially careful to extend a welcome hand to those frequent users of our repeaters that you talk to each day to help support the repeaters they are using.

73, Stan W9FQN

**NEWSLETTER HELPERS**  
- December 1990 -

Computer Labels, Bill Whipple N6COU  
Ads, Art, Members, Jo Ashley .. KB6NMK  
Ad billing \$\$\$, John Tentor .. W6OLQ  
Folding/Staples, Jack Hanthorn KI6JM  
Folding/Staples, Lloyd Hunt .. W6TFB  
Folding/Staples, Bill Whipple N6COU  
Labels/Sorting, Benton Caldwell KK6LX  
Mail/ZIP/Forms, Stan Rohrer .. W9FQN

Without these people life would certainly be difficult (de W9FQN).

**SPECIAL**  
**RECOGNITION OF =>**

♥ Betty Mahoney-KB6DGR, within days of selling her QTH, will be moving to the midwest to be nearer her family. Betty has been a loyal member of the 8pm 146.730 San Diego

County Traffic Net (SDCTN) system for years and has been a great help to me (W9FQN) in seeing to it that what is being sent on the Friday evening code net is what I say it is. She was also responsible for pushing PARC into changing the 146.05 digi over to NET/ROM NODE operation this month. Thanks, Betty, we hope to hear from you from time to time and we wish you the best at your new QTH. You will be missed!

- BK -

Bill Smith-KB6MCU, PARC club member, is the SANDARC interference chairman and he has been running all over San Diego Co. working on interference complaints against amateurs. His last complaint was against a club member in Vista, R.F. Krist-W6KTE, where the complaint was TV and phones. Bill lives in San Diego and has been donating his time, gas, and filters to the cause of resolving these complaints against amateurs.

Stan-W9FQN worked on a previous complaint against W6KTE. W6KTE's station appears clean except for an unsoldered coax connector.

Bill indicates a pattern is forming in more than 50% of the complaints: operation on 20m, tower 50'+ high, 1,000 watts, SSB, unsoldered coax connectors, new housing development where they were the first ones to build, and retired.

**PERSONAL**

- BK -

Received a nice Christmas card from Eleanore-N6QJE addressed to PARC wishing all of her friends "happiness during the holidays and throughout the new year" and thanking all of you "who helped me so much during my LIMITATION from the accident."

- BK -

RECEIVED nice note(s) from: Joseph Silveira-WA1CSO, Larry-KC6PRH who wants to thank Eleanore-N6QJE for the "Elmer's" information, and a nice letter from William Driml-W6NAT who had the following to say --> Ralph & Gang, greetings de Caldwell, Idaho, where the temp is around zero most of the time .. having great time but can't get outside .. ground frozen 3' down .. beams and twrs laying on ground .. 20m inverted V up 25' .. work some DX .. hi to Jack-K16JM, Bob-WA6QQQ, Ralph-K6HAV, and rest of OTs in Vista .. HF skeds with A7-A6 and ETs .. maybe I can stop the war over there (Bill was a

past president of PARC).

- BK -

Larry-W6QCA and Mark-AA6TR for hosting the Sunday morning Sailor's Session (SSS) at 10am. It is a good opportunity to exchange boating information for San Diego County sailors and the nets have been very interesting. They now have in excess of 12 boaters that periodically check into this net with boat lengths running from 23' to 52'.

- BK -

Karl-N6WLX and Chuck-N6TJT for putting up a 10m dipole for Eleanore-N6QJE so she can work DX - and latest reports are having her working the Pacific and Europe.

- BK -

Ed Carry-K6ICG for the donation of a 35' free standing tower with winch which will be used for Field Day or at the repeater site for emergency repeater antenna use. Wally-N6JZB and Dennis-N6KI did the honors of taking everything down and

Stan-W9FQN will move it from N6KI's QTH to Valley Center for painting.


- BK -

Bernice-N6WQR for her recent activity on the evening traffic net representing San Luis Rey and helping with the Escondido Christmas parade. Its good to see that your rigs are starting to work FB (Fine Business, gud(good)) now.

( - Dahdididadidah - )

Nash-W6HCD for articals on earthquakes. It appears as though the Rose Canyon fault has been upgraded to active and could get a hit of 6.8. More on this later.

+++++ SK +++++  
+ B I L L W I L L I A M S +  
+ - W 6 B L L - +  
+ Bill, a long time member of +  
+ PARC passed away the week before +  
+ Christmas. He will be missed by +  
+ all those who knew him. +  
+++++ SK +++++





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----- ADS HELP SUPPORT THE " S C O P E " -----

R E P E A T E R S, etc.

TECHNICAL: John Kuivinen.....WB6IQS  
-- TRUSTEES --

W6NWG/R: Ron Wilhelmy ...W16B->

145.05(s)pkt, 146.730(-), 449.425(-)

KA6UAI/R: Erik Thompson, 147.130(+)

WA6IPD/R: Art Rideout, 146.175(+)

WD6HFR/R: Ron Berger-NE6T, 224.900(-)

All CTCSS(PL) tones are 107.2

We have noticed a very few of our members and some of our guests on the repeaters using 4-letter words in their conversation. The club does not approve of 4-letter words being used on the repeaters so we suggest that if anyone does use language that is not appropriate that you not come back to them or end your QSO immediately. Please do not talk to anyone using bad

language or participate in any improper conversations or operations. If in doubt, don't do it. To participate in these conversations could be signaling your approval of what is being done or said. It is not your job to be a policeman but don't condone it by being a part of the conversation. We really don't have a problem with just a few isolated cases but these





things sometime snowball if they are not stopped immediately. We would like to be noted as operating "family" repeaters. We have a large influx of new members and new hams and we need to set a good example for them.

- BK -

If you originate a call to 911 through a base station, then it is your duty to stick around until the call is completed by the base station to the police. Many times the police ask questions which the base station caller cannot answer and additional information might be needed from you. The base station should probably remind the mobile to "stick around" until the call is completed.

- BK -

WORKPARTY (01-13-91): Paul-KB5MU and Stan-W9FQN made a mad dash to the repeater site to install the new 1.3 NET/ROM NODE chip in the MFJ-1270 packet controller. Paul installed the new chip, and specified the new parameters while Stan worked in the battery shed checking charging currents, voltages and the leaky cell which seemed to have lost no acid since the last visit. In fact we had a higher liquid level than when we left last time! Anyone know why? The NODE now goes by the name of W6NWG-1 or PALMAR (the "o" is missing). The suggestion of PALMAR came from Betty-KB6DGR or Jo-KB6NMK. We also bought a second chip, W6NWG-2, for another project.

At present PARC is "sitting" on 6m, 2m, 450, and 900MHz FM equipment. If any of you have any ideas on the use of this equipment, please contact a club officer.

#### NET/ROM NODE COMMANDS:

To display a list of known destination nodes, use NODES.

To display nodes including hidden nodes, use NODES\*

To display specific routing

information for a particular node, use NODES followed by the callsign or identifier of the node in question (NODES ???). Your answer will be a list of routes with the quality of the route (255 best and 0 worst). ">" designates the route in use.

For example, suppose you want to connect to the WORL1 bulletin board in Santa Cruz (near San Francisco). 1st, establish an uplink, CONNECT PALMAR. 2nd, ask PALMAR for list of NET/ROM NODES for which it has routing information using NODES command which might, ie, pick up SFO-W6AMT. 3rd, issue CONNECT SFO. 4th, then CONNECT WORL1 to get into the bulletin board. 5th, to disconnect, type DISC. You might play around with this and other things and let us know exactly what needs to be said to "get into" interesting places.

If you feel that any of the W6NWG-1 "parameters" need changing, please contact Paul-KB5MU, Stan-W9FQN, or Betty-KB6DGR.

- BK -

REPEATER RULE#3: Those who use the repeaters the most have never seen or worked at repeater site.

- BK -

Our repeaters in the PARC bunker on Palomar Mt. at 5,600' cover 2,000 sq.mi. of S.D.Co. and 140+ miles out to sea. Be FRIENDLY to those that you talk to and INVITE them to support the club with their membership. You can check their membership in PARC by asking them if they have seen something in the most recent SCOPE or by looking at the last club roster.

#### A U T O P A T C H E S

KA6UAI/R: Erik Thompson...#1..KA6UAI  
ENCINITAS + surrounding towns

KA6UAI/R: Jerry Hauser...#2..WB6FMT  
VISTA + surrounding towns

WA6IPD/R: Art Rideout...#4..WA6IPD  
FALLBROOK + surrounding towns

CLUB POLICY: 1) it has always been

club policy that the autopatches are ONLY for club members although you can feel free to "dial up" the SECRET patch code for non-members in an emergency, and 2) these repeaters are OPEN repeaters for Club Members and OCCASIONAL TRANSIENT USERS. We feel that if someone uses the repeaters on a somewhat regular basis, that they should support the repeater operation with their membership as suggested by the ARRL Repeater Directory. At present we have about 60 non-club members using 146.73 and 147.13 who are not club members (some former members) and this represents a loss of funds of about \$720 which could be used for additional repeater operations.

The value of the club's investment on Palomar Mountain is considerable: property (\$30,000); tower, feedlines, and antennas (\$5,000); repeaters (\$6,000); and building (\$2,000) for a total of about \$43,000. This figures out to about \$130 per member and does not take into account the hundreds of hours of donated work, travel expenses, and electricity that is needed to make everything work properly. Certainly \$12 per year (3c/day) is a small amount to pay for such an investment for those who use the repeaters. Some of the NON MEMBERS use that much electricity each day!

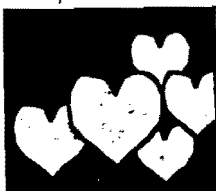
- BK -

KA6UAI/R & WA6IPD/R AUTOPATCH CODE CHANGES: See below. Erik-KA6UAI also advises that the Encinitas autopatch needs to have about 10 seconds to reset before you re-dial.

If you have troubles with the autopatches, please contact a club officer by phone or come to the next meeting for personal instruction.

- BK -

Jerry Houser-WB6FMT has tested his VISTA autopatch on KA6UAI/R and everything seems to be working



normal and will be put on line February 1st. Remember that for ALL autopatches you need to say -

- 1) (your call) access autopatch
- 2) dial access code (see below) and a PL of 107.2Hz
- 3) listen for dial tone
- 4) then dial your phone number
- 5) clear patch with proper code
- 6) (your call) clear of patch with codes below.



**NEW**

=====(ENCINITAS)=====

KA6UAI:147.13(+)(107.2)up\*01-dwn#01)

(O)side,Cardi(f),(L)eucadia,(D)eI Mar

E(n)cinitas, (C)arlsbad, San(M)arcos

(R)ancho Santa Fe & (S)olana Beach

259d 411 431oc433o 434c 436n 438oc

439o 471m 481d 591s 632cn720oc721o

722o 729oc744m 753fn754 755d 756r

757o 759r 792d 793 853 931oc942n

943n 944n 966o 967o Emg. only 911

Non-emergency:

CA Highway Patrol (O'side)757-1675

Sheriff's department is 753-5591

AAA road service is 753-8917

=====(VISTA)=====

WB6FMT:147.13(+)(107.2)up\*02-dwn#02)

(E)scondido, Carls(B)ad,(F)allbrook,

(O)ceanside, San(M)arcos, (V)ista,

Valley (C)enter

431ob432e 433o 434o 438o 439o 471m

480e 489e 591m 598v 630v 720o 721o

722o 723f 724v 726v 727v 728f 729o

731f 738e 739e 740e 741e 743e 744e

745e 746e 747e 749c 751c 754o 757o

758v 931ob940v 941v 945v 966o 967o

Non-emergency:

CA Highway Patrol (O'side)757-1675

Sheriff's assistance is 728-1113

AAA road service is 758-5570

=====(FALLBROOK)=====

WA6IPD:146.175+ (107.2)up\*04-dwn#04)

(F)allbrook, (O)'side, Paum(a) Villy

(P)endleton,Valley (C)enter, (V)ista

430o 433o 434o 439o 598v 630v 720o

721o 722o 723f 724v 725p 726v 727v

728f 729o 742a 749c 757o 758v 940v

941v 945v 966o 967o & 911 Emg

Non-emergency:

CA Highway Patrol (O'side)757-1675

Sheriff's assistance is 728-1113

AAA road service is 758-5570

The KA6UAI patch is averaging per

month 28 day calls, 20 evening calls, and 68 night calls with an average talking time of 90 seconds per call. We would like to keep it below 60 seconds per call!

- BK -

Karl Pagel-N6BVU of TASMA lists the following information about repeaters in Southern California:

Band	Open	Closed
6m	13	8
2m	181	81
220-222	3	98
222-2225	112	74
440-450	31	488
900 MHz	7	23
1.3 GHz	21	65
420-430	504 remote bases	
430-440	21 other systems	
2.3-2.4 Ghz	6 ATV repeaters	

- BK -

PATCH QUESTION: What if I hear someone using the patch without giving his call letters? ANSWER: Feel free to "dump" the call using YOUR call letters with the proper codes and report the incident to a PARC officer if a control operator is not present. The executive committee has also given permission for the dumping of non-member calls except for where the access code was dialed by a club member or in EMERGENCIES. At present, these comments apply ONLY to the KA6UAI/R repeater and NOT to the WA6IPD/R repeater.

- BK -

REMEMBER: 911 emergency calls need to indicate the call is via Ham Radio autopatch. The KA6UAI/R autopatches will show up on their screen with Erik's address or with Jerry-WB6FMT's address. They are not interested in having the police pull up to their houses with "loaded guns!"

- BK -

The KA6UAI/R 10m link is now working only on receive until it gets fixed.

## For Sale—

If you have an item for sale, bring it to the SALE TABLE at the club meetings, tagged with name, call and minimum price, if any. The Club takes 10% and you go home with \$\$\$. PARC takes no % on the ads below and they are FREE to club members. The month of first being run is indicated by date at the beginning of the ad. PLEASE tell us when the item(s) are sold. Deadline FORSALE items is the 15th of the month addressed to the editor at his home address.

SWAPMEETS: Dennis-N6KI, price\$; John-WB6IQS, VHF, UHF, Hardline; Kerry-N6IZW, Microwave; Paul-KB5MU, Pkt, Computers; and Bill-KB6MCU, ATV.

- BK -

(1-11)ARRL Repeater Directory 90-91 edition, unused \$5; ARRL '90 Handbook, \$20; Wilson 1402 6-chan 2w HT, charger, broken duckie (no modulation on xmit), \$50; Heath SB-300 rcvr/w speaker & manual, \$200; Mike-WB6CSH-leave msg 283-2447.

- BK -

(1-8)Heathkit SB-610 monitor scope, \$75; National RBL-2 Low Frequency rcvr, \$75; Dennis-N6KI-271-6079.

- BK -

(1-2)Ten Tec Argosy 5-50 watt xcvr with mike, pwr supply, manual: Reasonable Ron-W16B-756-3133.

- BK -

(12-24)95' TOWER free standing, 4x20', 1x15', removed from Oceanside trailer park, want to recover cost of \$815 to take down or best offer, can deliver, exec. cond.: Chad-N6ZPU-489-8811 Esc.

- BK -

(10-12)ICOM 02AT 2m HT w/BP-8 battery, leather case, DC chgr, spk mic/mic headset \$250; Dennis-N6KI-271-6079.

- BK -

(12-3)PARC Vacuum tubes (checked) of all types: Larry-KC6PEN, 439-4109. Larry is replacing Dennis-N6KI's ad on fire bottles.

- BK -

(11-19) Kenwood TS-711A 2m xcvr, extras \$795; Westcom 2m amp, 151n-90out \$70; Janel 2m preamp \$30; Drake WV-4 Wattmeter \$50; Ten-Tec model 238 2KW ant tuner \$295; Duane-AA6EE-789-3674-eve.

- BK -

(11-19)'91 North American or International Callbook \$23.99 or both \$45.99; '91 ARRL Handbook \$21.99; add 7% tax and \$1.65 1st book & \$.75 additional books; trade-ins '90 callbooks accepted: Check to Duane-AA6EE-16832-Whirlwind-Ramona-CA-92065-789-3674-eve.

- BK -

(11-1) IBM Code tape for code practice sessions, free: Stan-W9FQN-749-0276.

- BK -

(10-20) ICOM-781 Xcvr; Telex Tail Twister Rotator \$250; Sure 444 desk mic \$25; Kenwood TS-711A 2M Xcvr; Westcom 2M 90W Amp; Janel 2M Preamp; Drake P/S; B&K mod 1460 10 MHz Oscilloscope \$100; B&K mod 1400 scope calibrator \$150; Heath mod 2232 component tracer \$100; Duane-AA6EE-789-3674.

- BK -

(10-16) 4250 watt electric start portable alternator fueled by gasoline or natural gas, 1984 model, 8hp Tecumseh, dual voltage 240/120 (17.7-35.4A). Minimal run time. Needs new rotor. Pd \$650, sell \$125; Mark-WA6DOC-945-1367.

- BK -

PALOMAR ARC: guy rope for antennas and masts from 260-770-1790 pounds breaking strength (4-8-12c/ft and 3/32-3/16-5/16" inches); HAM POSTAGE STAMP REPLICA PINS, \$5/ea (great for Christmas gifts): Stan-W9FQN-749-0276.

## Wanted—

(1-22) A group of members to buy some coax in bulk. Come to the Feb. mtg. and contact Mark-N6NNI.

- BK -

(1-11) ICOM 25A/35A/45A/24AT accessories: Mike-WB6CSH-leave msg 283-2447.

- BK -



(1-10) January 1991 Issue of 73 Magazine (my picture is on page 66): Jo-KB6NMK-741-2560-Escondido.

- BK -

(1-5) Curtis LIL' Bugger Keyer, ICOM keyer module EX243, and ICOM IC-22A: Dennis-N6KI-271-6079.

- BK -

(1-2) 2m mobile transceiver: Ray-WA6THC-729-2001

- BK -

(1-2) Heathkit HW-8 QRP rig, will pay premium for quality wiring job: Reasonable Ron-W16B-756-3133.

-BK-

(12-11) a PARC member who can send computer code Friday evenings over 146.730. IBM's work fine for this.

- BK -

(11-16) Chuck-KG6CQ is interested in talking with someone who is using a Mack Plus computer on Packet: Carlsbad 720-9852.

- BK -

(9-7) Paul-KZ6X is looking for someone to help a technician with house calls. Time would be 8:30 to 5:30 on Wednesdays and Fridays. Call Paul at North Co. Service Center, 436-2900.

- BK -

(12-20) A few good men & women to help man the RACES station in San Marcos: Paul-N6ISC-727-8777.

## DONATIONS

If you don't know what to do with it, donate it to the club. Donated items are sometimes used in club projects or are taken to a swap meet for sale with the resulting \$'s going into the club Equipment Fund which pays for equipment used at the repeater site or for Field Day.

## MEMBERSHIP INFO

NEW: Stewart Miller, N6WSW, Carlsbad; Bruce Coy, WB6QLC, San Diego; Leonard Thompson, KB6MWH, Spring Valley; David Rosky, N6CQF, Leucadia; Larry Bishop, KC6PRH, Oceanside; Ray Spangler, WA6THC, Carlsbad; Jess Thleme, N6YRS, Vista; Dick Gearhart, KC6QBD, Oceanside, Danny Tharp, KC6PRW, Vista, and

Terri Norman, KC6PPN, XYL of Matt-KC6NPM, Vista; Joseph Sliveira-WA1CSO, Middletown, RI; Walter Smith-KC6OXZ, Valley Center.

RENEW: Larry-W6QCA (2yr); Aubry-W6ODG (not ODJ as listed last month); John-NW6W; Richard-AA6PN; Peter-N6YMC; Del-WV6Z; Hark-WB6WGT.

NEW CALL: N6YRT, Nicholas Uran, is now KK6TV.

CHANGED: WB6RWF, James Brown is now KK6FX.

SCOPE: Fred & Helen Anderson, SD; Bill Drimi-W6NAT, Caldwell, Idaho.

FCC UPDATE (12-1-90): (A)AA6ZU, (B)KK6TN, (C)-----, & (D)KC6PPF.

If ur adr label is PRC9101 (yr/mo), THIS IS UR LAST ISSUE! LX9503 means ur amateur license expires March of 1995. If u don't have an LXymm, contact Jo-KB6NMK es get ur records up to date so u don't forget when to have ur license renewed. Use the evening traffic net to contact KB6NMK if u don't make meetings.

## PARC V E T E S T I N G

FCC LICENSE EXAMS in N. County are conducted by the PARC VE Team at the Joslyn Sr. Ctr, (behind City Hall) 111 Richmar Ave, San Marcos on the 2nd Sat. of the month at 1000 Hrs. Walk-ins are not accepted.

#6-JANUARY 12th: 16 applicants, 22 elements, & examinees passed 13 elements = 59% ei pass rate. One was not tested because of time constraints.

Since August '90: 64 app, 99 ei, 61 passed = 62% ei pass rate.

NOVICE: Susan Blanford & Vincent Allen.

NOVICE->TECH: Joseph Bainum-NP, Joseph Banando-NP, Tom-KC6NXZ, Steve-KC6MIE, & Sean-NP.

TECH->GEN: Fred-KC6FSW & Larry-KC6PEN.

OTHER: Stewart-N6WSW passed 3B & 4A.

EXAM TEAM DEC: Duane-WB6R (code), Jack-K16JM (reception), Jack-AA6UQ, Steve-N6RUB, Sam-W6YYv, Paul-KB5MU, and Rusty-AA6OM. Thanks for a job "well done."

Other SANDARC-VEC exams: 1st Sat-EI Cajon, 3rd Normal Heights, 4th Chula Vista, & last Escondido ARS.

Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTO-COPIES) and copies of license(s) and certificate(s) of successful completion, if any, to SANDARC-VEC. PO Box 2446, La Mesa, CA 92044 10 days B4 the test date. Bring ORIGINALS of licenses & certificates. Questions: call SANDARC 465-EXAM.

de A A 6 O M, Rusty Masse

## GENERAL NEWS

The Palomar ARC provided communications for the Camp Pendelton Horse Endurance Ride where the horses were required to ride 25 and 50 mile courses with 86 horses (and riders) participating. Jim-KF6QH organized the communications and was assisted by:

Joe-N6RVO (NC) . . . Jo-KB6NMK  
Ellen-N6UWW . . . Olivia-WA6WTZ  
Benton-KK6LX . . . John-KK6MS

Phil-KC6OEI . . . . Bill-WB6YLT  
Carl-N6WLX . . . . Chuck-N6THG  
Earl-N9KAB . . . . Mark-WA6DOC  
Jim-KF6QH . . . . Lloyd-W6TFB

This is the first time in my memory that the repeater has been used officially "for horsing around."

- BK -

Roger-N6UUW reports a billboard on I-8 near 7th St. that says:

---- -...

- BK -

BATTERY ALERT: don't mix alkaline and carbon-zinc batteries. The explosion could blow the end cap off a flashlight.

- BK -

The Queen Mary is back on the air after a year of inactivity (W6RO).

- BK -

Susan-N6QDB can hit the 146.850 repeater on Crestline from her 3rd floor room at Redlands University with her 1.5 watt HT which means she can talk to W9FQN, KA6FPS, and N6YZZ easily.

- BK -

John-WB6IQS, the club's resident repeater technical chairman attended

the IEEE (Institute of Electrical and Electronic Engineers) conference in Washington, D.C. on January 16 and 17 and afterwards toured the Washington area. The conference discussed the FCC test procedures for radio emissions from computers, low power transmitters, receivers and security systems.

- BK -

The record for the most call signs so far is Dennis-N6KI:

WB2JDW (N.J.) EL2/N6KI (Liberia)  
WA7FDJ (AZ) ABBAY (MARS Vietnam)  
WB6LGI (CA) N6KI (CA)

8PGNY (Barbados) ((total = 7))

Mark-KC6CZO is second with:

KC6CZO-Ham WVR-9084-Marine  
NNNOBRZ-Navy MARS KCP4538-CB

- BK -

THE AVERAGE CALIFORNIAN MOVES ABOUT 95 TIMES A WEEK! California definitely has its faults which is why there were over 5,000 earthquakes in the Golden State last year.

THE BIG ONE IS COMING!

## AROUND THE WORLD OR AROUND TOWN FULL-SERVICE TRAVEL PLANNING

LOREEN WILHELMY (N6RAO)  
(619) 756-2388

TRAVEL VISIONS • Encinitas, CA 92024

depth of atmospheric attack on aluminum at various locations

LOCATION	Type Atmosphere	Type Sample	Exposure Time	Depth of Attack Mils	
				Average	Maximum
1 La Jolla, Ca	Seacoast	Test	20 years	4.1	12.0
2 Phoenix, Az	Rural	Test	20 years	0.3	0.6
3 Point Comfort, Tx	Seacoast	Test	4 years	2.0	3.4
4 Freeport, Tx	Seacoast	Test	4 years	1.8	3.7
5 Key West, Fl	Seacoast	Test	20 years	1.4	4.8
6 Copperhill, Tn	Industrial	Test	4 years	1.1	5.1
7 New Kensington, Pa	Industrial	Flashing Fence Clip	25 years	2.1	2.9
8 Altoona, Pa	Industrial	Test	20 years	3.6	9.3
9 State College, Pa	Rural	Test	20 years	1.2	2.9
10 Sandy Hook, N.J	Seacoast	Test	20 years	2.6	6.2
11 New York City, N.Y	Industrial	Test	20 years	2.8	7.4

The map shows how a few of the many locations tested correspond to the weathering curves above.



ADS HELP SUPPORT THE "SCOPE"

## NETS

### 146.73 WEEKLY EVENTS

M->S 2000 S.D.Co Traffic Net  
(except 1st Wed club meeting)  
MON 2100 Microwave Net  
TUE 2100 S.D. Pkt. Voice Net  
WED 2100 Open, suggestions?

THU 2100 Ham Help Net  
FRI 2100 Code Practice Net  
SAT 1000 Sailboaters check-in  
SUN 0830 ARES Net  
SUN 1000 SSS (Sailboaters Net)  
MON 1930 RACES Net on 147.195

The 2000Hr evening TRAFFIC NETS

are training nets where net controls and net members receive training in the conducting of emergency nets by handling routine traffic.

NET CONTROLS (NCs) need to remember that these are training nets and that they should not treat



new members harshly when a new member makes mistakes - and mistakes will be made. Traffic should be handed out by NCs with the idea of training as many net members as possible. Do not always give the traffic to the first one that checks into the net. You might keep a record of who has passed traffic. New net members who do not get the opportunity to pass traffic will soon drop out of the net. NCs should encourage new members to try handling their net from time to time so that we have a reservoir of potential net controls (need to be a PARC member for NC).

NCs should remember that as we place more of the autopatches into use that traffic can possibly be delivered using an autopatch connection. NCs are not perfect and they from time to time commit errors which will need to be corrected.

New net members need to remember that these nets are training nets and that they will receive helpful suggestions from the net control from time to time.

Traffic handling is a volunteer effort by volunteers and we will lose potential members if we are not diplomatic in our suggestions.

- BK -

Henry-WBOCQ and Larry-KC6PEN are pushing the simplex frequency of 146.535 for emergency and rag-chewing in the San Luis Rey valley. They claim to have 17 amateurs in the area and Henry monitors all day EVERY Friday. The club has never had a "club simplex" frequency and this frequency might be worth our consideration as a club frequency.

#### OTHER NETS

The RADIO AMATEUR COMMUNICATIONS EMERGENCY SERVICE (RACES) NET meets each Monday at 7:30pm on 147.195. Except for net nights, the RACES repeater uses a PL of 114.8 Hz but

not for this net. Contact Frank-WB6HFE for info.

#### DISCLAIMERS

Meetings at LINCOLN MIDDLE SCHOOL are NOT a function of the Vista Unified School Dist. & are NOT sanctioned by the school Dist. Board of Trustees. See!

Unless specifically stated to be club policy, opinions and statements set forth herein do not necessarily represent club policy. Nor do they necessarily represent the opinions of the authors on other occasions or under different circumstances. The Editor further disclaims any knowledge of anything - real or imaginary. Verily.

You can copy anything out of the SCOPE you want as long as you give credit to THE PALOMAR AMATEUR RADIO CLUB, Inc., and author(s).

#### POTPOURRI

Whether you like it or not, NO CODE amateur licensing is here. It has been approved by the FCC, and I (AA6OM) will try to answer the questions you might have. The "magic" date is February 14, 1991, and there is only one license class affected, which is Technician. There will be no change to the Novice class, its privileges, or its testing procedures.

The requirements for the Technician class have merely dropped the five word per minute test. You must now pass just the element 2 (Novice written) and element 3A (Technician written). After passing these two tests, you will receive a Technician license. This license will give you all present Technician privileges above 30 MHz, so you will be able to operate on all of the "repeater type" bands; however, you will not have operating privileges below 30 MHz. If, after receiving your post February 14, 1991 Technician license, you wish to gain these HF privileges, you must pass the five wpm test at a VE test site. The VE's will issue you a CSCE

(certificate of successful completion) which will authorize you to operate on these lower HF bands. The CSCE will be your only authorization to operate HF, (you will not receive any additional license), and it will be done on the honor system. Apparently they feel that if you are able to use code, you won't mind coming in to prove it at the testing site.

Questions in the two written tests (2, 3A) that must be passed are unchanged from the present tests. They will continue to test knowledge of operation and procedures in all bands. Of course with these changes, we will no longer require you to pass the code portion first, and we will allow you to take the two tests at different times and at different test sites. 73, Rusty Massie, AA6OM, PARC's VE Chairman.

- BK -

The January 1991 CA packet listing of network nodes, KA-style nodes, or digipeaters can be obtained from KJ6YT @ KB6GFT or from Robb Topolski-KJ6YT, 1525 Calle Sacramento #D, San Clemente, CA 92672, for \$1.75. The list is 20 pages long! (Txn Larry-WA6QCA) The FLYING SAMARITANS are looking for eye glasses for their Tecate Eye Clinic each month. If you have any old glasses or can locate a supply of them from friends, please bring them to the next meeting and give them to Nacho-W6HCD or Stan-W9FQN. They are also looking for any kind of doctor, nurse, pharmacist, audiologists, dentists, optomologists, hygienists, Spanish translators, etc. to help at Flying Samaritan Clinics in Testerazo, Tecate, Rancho Rosarito, San Felipe, and others too numerous to mention.

- BK -

If you have a business and would like to advertise in the SCOPE, contact Jo-KB6NMK or Stan-W9FQN. Business cards are \$5/issue or \$40/page. Ads do not need to be about amateur radio related items - as you have probably noticed.



JOIN THE ARRL: When joining or rejoining the ARRL, do it via the Club which will receive a modest stipend otherwise going to the ARRL. Make your check payable to the Club and get it, with your membership application, to our Treasurer, Ron-W16B. NEW ARRL membership applications which include the PARC number (#1703), garner the Club \$5 - and it doesn't cost you a fat farthing more!

- BK -

SWAPMEETS: Contact a club member about Saturday swap meets: Santee-1st, Cucamonga-2nd, Chatsworth-3rd, and TRW-last.

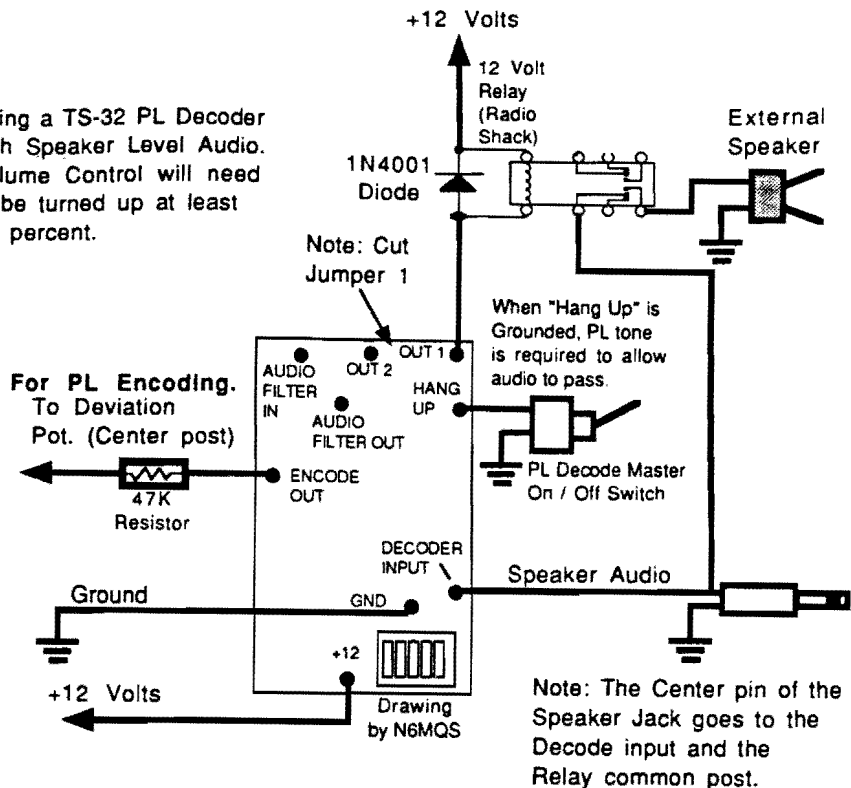
- BK -

- 73 W 9 F Q N -

The TS-32 ---->>  
Decoder/Encoder can be used to listen only to 146.730 AND can be used to generate a PL tone of 107.2Hz. Ask HRO about these units.

## TS-32 Hookup PL Decoder

Using a TS-32 PL Decoder with Speaker Level Audio. Volume Control will need to be turned up at least 40 percent.



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(415) 342-5757  
Rich. WAGWYB, Mgr  
5 mi. south of SFO on 101

OAKLAND, CA 94606  
2210 Livingston St.  
(415) 534-5757  
Rich. WAGWYB, Mgr  
I-880 at 23rd Ave. ramp

SALEM, NH 03079  
224 N. Broadway  
(603) 888-3750  
(800) 444-0047  
Paul. NW1U, Mgr.  
Exit 1, I-93, 28 mi. no. of Boston

VAN NUYS, CA 91411  
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(818) 988-2212  
Al. K6YRA, Mgr.  
San Diego Fwy at Victory Blvd

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Larry. WD4AGW, Mgr.  
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Tom. KM6K, Mgr.  
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# PARC APPLICATION

Mail form with \$\$ to PARC, P. O. Box 1603, Vista, CA 92085-0530 or hand to Jo-KB6NMK, at club meetings. Dues (Including SCOPE) are \$12 a year plus \$9 for each additional licensed family member. Dues are prorated for NEW members: Aug, Sep, Oct \$12; Nov \$9; Dec \$8, Jan \$7, Feb \$6, Mar \$5, Apr \$4, May \$3, Jun \$2, Jul \$1. Old members (1yr) \$12. Consider paying for two or three years at a time. Call, name, and complete address are required. Telephone number may be un-unlisted in roster if requested. Other information requested below may be omitted if you feel uncomfortable providing it to the club. Complete and cut on slashed line.

Call \_\_\_\_\_ Name \_\_\_\_\_  
 License \_\_\_\_\_ Home \_\_\_\_\_  
 Expires \_\_\_\_\_ Address \_\_\_\_\_  
 License \_\_\_\_\_ 1st 5 \_\_\_\_\_ +4 \_\_\_\_\_  
 Class \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ - \_\_\_\_\_  
 Old Calls \_\_\_\_\_ Home Phone # \_\_\_\_\_ Work Phone # \_\_\_\_\_  
 (ie., pg 8L, D6)  
 Year 1st licensed \_\_\_\_\_ Birth date \_\_\_\_\_ Thomas Brothers location, page # \_\_\_\_\_ coord \_\_\_\_\_  
 Names & call of family members in PARC \_\_\_\_\_  
 ARRL \_\_\_\_\_ RACES \_\_\_\_\_ ARES \_\_\_\_\_ Red Flag \_\_\_\_\_ Blood donor \_\_\_\_\_ Type \_\_\_\_\_ Comments: \_\_\_\_\_



//////////////////////////////////// slashed line //////////////////////////////////////

\*\*\*\*\*  
 \* SCOPE, USPS 076530, published monthly by \*  
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SPOT LIGHT ON:

Next meeting, Autopatch changes, TS-32

**ICOM**

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**is here!**

**SPECIAL PRICING**

**ALL MONTH LONG!**

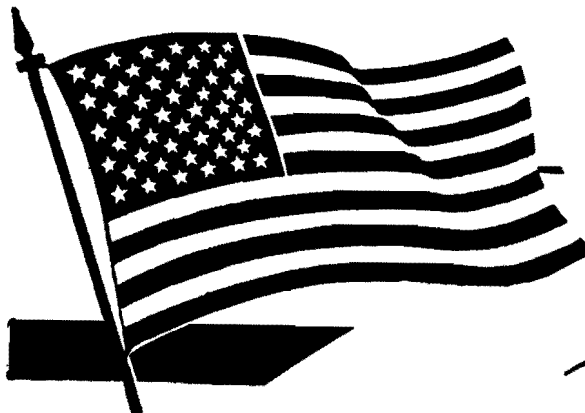
**ICOM**

**DAYS**

**at each**

**store...**

February is  
**ICOM MONTH**  
 at HRO -  
 with a special  
**ICOM DAY**  
 at each of  
 our stores:



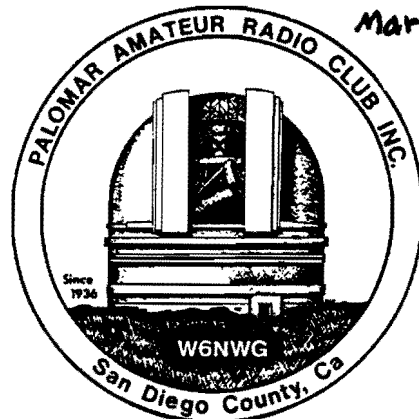
**Happy Valentine's Day !**

# Scope

W6NWG

**Palomar Amateur Radio Club Inc.**

**POST OFFICE BOX 1603, VISTA, CALIFORNIA 92085-0530**



Mar 91

W6NWG/R => 146.730(-), 449.425(-), . . . . . 145.050(Pkt)(NET/ROM NODE), . . . . . Club 146.535(s)/446.000(s)  
KA6UAI/R 147.130(+)(Patch)(10m Link) . . . . . WA6IPD/R 146.175(+)(Patch) . . . . . 220 Club WD6HFR/R 224.900(-)

V O L X X V I , N O . 3

M A R C H 1 9 9 1

5 5 y e a r s

M A R C H 6th meeting(1st Wed) is at Lincoln Middle School Cafeteria in Vista. I-5 or I-15 to Rd.78, Escondido Ave(Sunset) ramp, north on Esc.Ave, after 2nd light between Eucalyptus and E.Vista Way. Talk in .730.

## What you should know:

### H A M C A L E N D A R

Mar 2-3 - ARRL Int.DX Cont.SSB  
Mar 6 Wed - PARC Club Meeting  
Mar 14 Thu - PARC Executive Mtg.  
Mar 16 Sat - EARS DFing,ck 146.88  
Mar 16-17 - S.Cycling Assoc.Race  
Mar 21 Thu - Deadline for SCOPE  
Mar 30-31 - CQ WW WPX ContestSSB  
May 25-26 - CQ WW WPX Contest CW  
(Send calendar items to W9FQN)

### C O N T E N T S

Experts, Exec.Mtg,Pres.Msg. . . 2  
Recognition,Ads:GZI/NMK, Rpters 3  
Autopatches . . . . . 4  
FOR SALE, WANTED . . . . . 5  
VE testing, Ads: RAO/GI . . . . 6  
Nets, Potpourri . . . . . 7  
PARC Call Sign listing . . . . 8  
Adds: HRO, Pal.Eng,Fishing Hole 9  
PARC Application, . . . . .10

### L A S T C L U B M E E T I N G

The February 6th program consisted of a very humorous and informative talk on DXing by club member Harry Hodges-WA6Y00. Many of our club members are starting to show up at 7pm for eye-ball QSOs before the 7:30 meeting. There is nothing like one-to-one contact for discussions of your amateur radio problems. If you are new to the club, don't be afraid to introduce

yourself to one of these groups. One of the best ways of making friends is to ask someone a question.

Attending were 72 members and 7 guests who enjoyed the coffee and goodies. Art-KB6YHZ supervised the coffee and Kieko took care of the refreshment table. If you haven't brought in any cookies or other goodies lately, try to remember to do so sometime soon. The refreshment "kitty" usually takes care of incidentals and rental of the building so your contributions are appreciated.

### N E X T C L U B M E E T I N G

Our next club meeting will be March 6th at 7:30pm in the Lincoln Middle School on Escondido Avenue in Vista. The program will be on interference and how to reduce it: telephone, computer, television, etc. Bill Smith-KB6MCU who gave us an excellent program on amateur television will be presenting our March program.

SHOW AND TELL will feature John-WB6IQS's Alinco 2m/450 DJ-560 HT and anything else that members bring in to show-and-tell. W9FQN and W6HCD also have DJ-560s and KA6FPS has a

new Alinco DR-590 which should increase usage of the club's 449.425(-) repeater (PL 1072.).

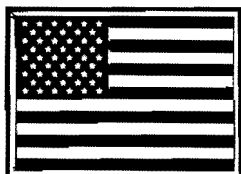
### W A N T t o B E a H A M ?

## What you should do:

If you or a friend are interested in becoming an amateur radio operator or in joining the Palomar Amateur Radio Club, please contact one of the ELMERS listed here for more information:

Stan Rohrer-W9FQN . . . President  
VALLEY CENTER: 749-0276  
Jack Hanthorn-KI6JM . V-President  
VISTA . . . 598-0420  
Nash Williams-W6HCD . . Secretary  
BONSALL . . . 728-3574  
Benton Caldwell-KK6LX . Treasurer  
CARLSBAD . . . 729-5161  
Stan Rohrer-W9FQN . . Editor(temp)  
VALLEY CENTER: 749-0276  
Jo Ashley-KB6NMK . . . Membership  
ESCONDIDO . . 741-2560  
CARDIFF: Duane Stedman:WB6R:753-4821  
CARLSBAD:EleanoreCall:N6QJE:729-0850  
DEL MAR:GerrySanford:KC6BJM:755-5244  
ENCINITAS:DaveCopley:WA6HQM:753-2605  
FALLBROOK:ArtRideout:WA6IPD:728-6834  
La MESA: Roger Jaffe: N6UUW:697-6025  
LAKESIDE:Mac McBride:WB6GXR:561-2211  
LEUCADIA: Bud Lincoln:KG6VX:436-9983  
LinVista:PaulWilliams:KB5MU:571-8585  
MIRA MESA: Ron Earl: W6TXK:566-1959

SCOPE-MAR'91



CLUB MTG WED 6th, 1930Hr, LINCOLN MID.SCHOOL



SUN for BAGHDAD

Pg 1

OCEANSIDE: Lloyd Hunt:W6TFB:757-9374  
PAUMA-PALA:Mark Ross:KC6CZ0:742-1539  
PointLom:MickMcDaniel:W6FGE:222-3912  
POWAY:MarkSchlessingerN6NNI:748-8391  
RAMONA: Vernon Leming:AA6UU:789-3070  
RanchoPen:John Tentor:W6OLQ:672-3891  
RanchoS.Fe:RonWilhelmy:WI6B:756-3133  
S.D.:Dennis Vernacchia:N6KI:271-6079  
SanMARCOS:RustyMassie:AA6OM:747-5872  
SanMARCOS:FloydHarvey:W6JSP:741-8391  
SolanaBe:LouBroadbent:N6CKQ:755-9179

Ron-W6TXK sometimes conducts classes in the MIRA MESA area so contact him for the latest information on the starting of new classes.

POINT LOMA NOVICE INSTRUCTION and TESTING: contact Mick McDaniel, W6FGE and friends, 222-3912.

#### C O N S U L T I N G E X P E R T S (found on 146.730)

WB6FMT: Autopatches and 450 Equip.  
W9FQN: Mexican license; Nicads  
WD6FWE: C-64 computers > Commodore  
WA6HQM: 10 meter 10-10 Club Infor  
WB6IQS: Heathkit; Motorola; Rpters  
N6KI: Swapmeets; Used Equip. \$\$  
W6INI: ARRL; ARES; Fire Patrols  
N6IZW: Microwave; Test Equipment  
KB6MCU: Interference; Filters; ATV  
FCC, Antennas (HF/VHF/UHF), towers  
KB5MU: Pkt; Satellite; Computers  
KB6NMK: Direction Finding info.  
W6OLQ: Ping Pong; Badges; HP Plot  
AA6OM: VE Testing: Tests/Helpers  
KI6RF: Mobile noise filtering  
N6TEP: U.S. Coast Guard Auxiliary  
AA6TR: Sailing / Boating Antennas  
N6UUW: Radio Controlled Airplanes  
N6RVO: National Traffic System  
WQ6V: Cable TV problems; Coins  
ND6W: Test Equipment, Programming

Check ad sections for professional help on radio repair: N6GZI (antennas), and HRO. If you would like to have your call added to the list, contact W9FQN with your speciality area.

#### E X E C U T I V E M E E T I N G

DISCUSSED: insurance, finance, autopatches, rent and agreements, SCOPE, batteries and control circuits.

APPROVED: 449.425 repeater Pled and KK6LX to check into various terms of our insurance contract.

IN ATTENDANCE: (officers) Stan-W9FQN, Mash-W6HCD, and Benton-KK6LX; (others) John-WB6IQS & Steve-N6UIA. KI6JM was ill and KB6NMK is in school. The February meeting was at Benton-KK6LX's QTH and we all enjoyed the cookies and coffee. The March meeting will be at WB6IQS's house in Vista.

#### de EL P R E S I D E N T E #10

I put the newsletter (SCOPE) together bit by bit throughout the month whenever I have a few minutes to sit down at the computer. Lately I have been having problems with my printers and how I handle files but I hope that those problems will be solved by the end of this month and that most of the repeating errors will be corrected.

The club really needs to thank Jerry-WB6FMT and Eric-KA6UAI for the work that they and PARC have been doing on the emergency autopatches. We hope that these patches will be of service to the club during mobile times and emergencies. We now cover most of North County. The autopatches are CLOSED and only for use by club members although you can feel free to BRING UP a patch for a non-member if it is an emergency. Control codes are not to be given out to non-members. See REPEATERS for more information on autopatches. These restrictions are being placed on the autopatches because we want to keep control over how they are being used - being a club member and receiving the SCOPE helps to educate you on their proper use.

Users of the autopatches need to remember that the primary purpose of the autopatches is to help in the reporting of accidents, advisories to fire and police departments, and to allow communication in emergency situations: fire, earthquakes, crashes, etc. The FCC frowns upon

their being used in an attempt to avoid a toll call or for business. PARC members should use only the autopatch which is based in their calling area: Encinitas, Vista, and Fallbrook.

It needs to be remembered that many of our members use the 2m and 450 repeaters to further their other amateur radio interests: packet, microwave, code, antennas, sailing, mobile and family communication, etc. Our 2m repeaters help keep our club members in contact with each other and provide for a easy exchange of amateur radio related ideas.

The club spent over \$1,000 on non-repeater club related activities last year (mostly Field Day and Emergency items) and we are trying to keep a happy balance between our members' interests. If you feel that we have been falling down someplace, be sure to contact a club officer and express your concerns. WE DO LISTEN!

73, Stan W9FQN

#### N E W S L E T T E R H E L P E R S - January 1990 -

Computer Labels, Bill Whipple N6COU  
Ads, Art, Members, Jo Ashley .. KB6NMK  
Ad billing \$\$\$, John Tentor . W6OLQ  
Folding/Staples, Jack Hanthorn KI6JM  
Folding/Staples, Lloyd Hunt .. W6TFB  
Folding/Staples, Bill Whipple N6COU

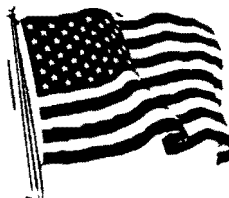
also Roster and label printing  
Sorting/Labels, BentonCaldwell KK6LX  
Mail/ZIP/Forms, Stan Rohrer . W9FQN  
Without these people life would certainly be difficult (de W9FQN).

#### R E C O G N I T I O N of

Larry-KC6PEN for the work he did on a control system for the repeater site and his acting as a net control of the Thursday evening HAM HELP NET before shipping out to 29 Palms.

- - CORRECTION - -

In the SK notice last month, Jack




Williams-W6BLL was inadvertently entered as B111 because of the way it was turned in to the editor (BLL). Jack was one of the original founders of the Palomar Amateur Radio Club back in 1936 when the club first started meeting in


Escondido. Another founder of the club was Mel Bacon-W6NWG who used to use the great phonetics of "this is W6NWG, 'nuthin works good,' in Oceanside with miles and miles of beautiful white sand." In those days there used to be plenty of sand

on the Strand. PARC has been using "NOTHING WORKS GOOD" for years during Field Day each June and we always seem to get a great response from its use.

## Support Operation Desert Storm




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



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----- ADS HELP SUPPORT THE " S C O P E " -----

REPEATERS, etc.

TECHNICAL: John Kuivinen....WB6IQS  
- - TRUSTEES - -

W6NWG/R: Ron Wilhelmy ...WI6B->  
145.05(s)pkt,146.730(-),449.425(-)  
KA6UAI/R: Erik Thompson, 147.130(+)  
WA6IPD/R: Art Rideout, 146.175(+)  
WD6HFR/R: Ron Berger-NE6T,224.900(-)  
All CTCSS(PL) tones are 107.2

The recent issue of the ARRL repeater directory has quite a few errors/additions that need to be made to our repeaters which should be obvious from the SCOPE's masthead. Also with the permission of WA6IPD and the KA6UAI, their repeaters are to be listed under the "sponsor" heading as the PALOMAR ARC rather than being left blank.

- BK -

Because of interference on Palomar Mountain which has not been located it was decided to place the 449.425 repeater on PL (107.2). John-WB6IQS will take care of this on his next trip to the mountain.

**Canada** - BK - **Britain**



SCOPE-MAR'91

Jerry-WB6FMT is looking for a hilltop in the Vista/San Marcos area to put his 450 repeater on. Contact WB6FMT or W9FQN if you know of such a place.

- BK -

Art's WA6IPD/R repeater is now coordinated (at last). Using a timer, four days of usage (29, 20, 19, 24 minutes) averaged 23 minutes per day. Art attended the last TASMA meeting and reported that they are pushing to require all repeaters to be entered with a PL (tone entry, for PARC 107.2Hz) AND to put a PL tone on their OUTPUT - like our 146.73 machine has been doing for years. We would prefer that they require PL entry to all repeaters and that they not enforce it unless there is a problem with another system. As soon as there is a complaint, the PL would have to be engaged. This would allow some repeaters with no interference problems to operate without PL a little longer. We believe that ALL repeaters should have a PL tone on their output at all times. AGAIN, don't buy a new 2m rig without PL

ENCODE and DECODE. A diagram of one was in last months SCOPE.

- BK -

WORKPARTY (02-03-91): John-WB6IQS went to the mountain, checked the new batteries and their charging circuits, checked some 450 problems, and the 146.730 machine problems. At the output of the duplexers he measured .5 micro-volts sensitivity and a transmitter output of 20 watts. Reflected power was .25 watts. Looks as if we will have to check the hardline for problems when the weather gets warmer. Steve-N6UIA who has property on Palomar Mountain dropped in and helped John with some of the work being done.

WORKPARTY (02-13-91): Stan-W9FQN and Norio Aoshima, a Japanese University student staying with the Rohrsers, used the Red Jeep with a forklift to move two telephone poles and tree trunks at the repeater site to form a boundary along the back edge of the property where locals were using part of the site as a driveway. They also cut an alternate path through the brush

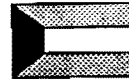
**Saudi Arabia**

**United States**

**Kuwait**

**France**

**Italy**



with machetes for the neighbors to use. We also found two patches of snow.

- BK -

REPEATER RULE #4: Repeaters and their antennas always fail when there is two feet of drifted snow on the ground and the temperature is below zero (we have observed icicles 8-12 inches long - hanging at 90 degrees from the tower!).

- BK -

Our repeaters in the PARC bunker on Palomar Mt. at 5,600' cover 2,000 sq.mi. of S.D.Co. and 140+ miles out to sea. Be FRIENDLY to those that you talk to and INVITE them to support the club with their membership. You can check their membership in PARC by asking them if they have seen something in the most recent SCOPE or by looking at page 8 in this SCOPE.



#### A U T O P A T C H E S

KA6UAI/R: Erik Thompson...#1..KA6UAI  
ENCINITAS + surrounding towns

KA6UAI/R: Jerry Hauser...#2..WB6FMT  
VISTA + surrounding towns

WA6IPD/R: Art Rideout...#4..WA6IPD  
FALLBROOK + surrounding towns

A recent 30 minute phone conversation with the Director of Enforcement for the FCC in San Diego, Jerry Friedman, indicates that amateurs need to be especially careful in their use of autopatches. Amateurs are not to use the patches to AVOID MAKING A TOLL CALL.

Walking out of your office and calling on the autopatch to tell your wife you are coming home now is a NO NO! You should have called on the office phone long distance giving her that information. It would appear that the above call would have been ok if it did not involve a long distance charge from your place of work. The test is, "are you using amateur radio to avoid a phone charge?"

Iraq



SCOPE-MAR'91

Calling on the autopatch to tell her that you are hung up in traffic on I-15 and will be late coming home is ok since it is a call that would not normally have been made but with the advent of commercial car phones one wonders what the future holds in this area. Calling home on your HT while taking a "health" walk is FB (fine business).

One wonders what the feeling would be about our "sail boaters" using the autopatch. I guess if you had no means of making a commercial call from your boat, autopatch use could be justified. It would not be justified if you were just several minutes from the dock where commercial phones are available.

EACH call should be checked to see that it passes the following tests:

- 1) ARE YOU TRYING TO AVOID A TOLL?
- 2) ARE YOU CONDUCTING BUSINESS?

EACH call must meet BOTH of the above two tests.

The first one is usually obvious but the second one is more difficult. We most often think of it as conducting business calls related to OUR own business but it can be applied to other areas as well. Calling up and ordering a pizza is a NO NO. Asking someone to pick up something for our business is a NO NO. Calling up the office and telling them that you are going to be late for work is probably a NO NO. Contacting a towing service for yourself or someone else along the highway is ok provided that you do not have a commercial radiotelephone in the car with you.

Remember that our autopatches were installed to help us with EMERGENCY traffic and to provide communications during DISASTERS when no other form of communications is available. Sometimes "blocks" of telephone exchange(s) become separated in emergencies and our

system, we hope, will still function and allow emergency units to communicate. The last such case was the fire north of Escondido which cut off the Valley Center exchange from the world for over 24 hours. Previous to that Palomar Mountain was cut off for almost 10 days without phone service when the mountain burned. We do hope that our members will use the autopatches from time to time so that we know that they are working properly and that YOU KNOW HOW TO USE THEM. You need to remember that you and the FCC will be applying the above TWO rules to each call.

The FCC sometimes moves with lightning speed. If a TV transmitting tower does not have the proper lights, I understand that EVERYONE on the tower (including amateurs) can be fined even though it is not their tower and they are on the tower free. It is our understanding that an amateur radio bulletin board recently was fined \$300 for having a file listing a NO NO telephone number and all digipeaters repeating the bulleting board received FCC citations - WOW! Fortunately the FCC has TOO many other things to do than breathing down amateurs necks but if someone monitoring the amateur operation complains to the FCC, then the FCC could strike rapidly!

- BK -

If you have troubles with any of the autopatches or need the codes, please contact W9FQN by phone (not autopatch) or come to the next meeting for personal instruction. So far we have observed proper autopatch use with only a few minor problems involving amateurs using the wrong control codes.

- BK -

Remember that for ALL autopatches you need 107.2Hz and to say -

- - push mic switch - -

- 1) N6YZZ(your call) ACCESS PATCH
- 2) dial proper 3-digit "up" access code->Encinitas/Vista/Fallbrook

**Your Someday  
Is Here!**

EXEC MTG THU 14th 1930Hr, WB6IQS(#1)

Pg 4

## What you should know:

- - let up on mic - -
- 3) listen for dial tone
- - push mic switch - -
- 4) dial 7-digit phone number
- - let up on mic - -
- 5) complete conversation
- 6) N6YZZ(your call) CLEAR PATCH
- 7) dial proper 3-digit "dwn" code
- - let up on mic - -
- for example -

" BK BK...BK "

N6YZZ \*09>749-0276>talk>N6YZZ #09

ACCESS CLEAR

PATCH PATCH

The " " in example above indicates your "push-to-talk" sequence

Codes available at club meetings or from a club officer.

(copy for car & home use)

=====(ENCINITAS)=====

KA6UAI:147.13(+)(107.2)up\*Xx-dwn#Xx)

Oside, Cardif, Leucadia, DelMar

Encinitas, Carlsbad, San Marcos

Rancho Santa Fe and Solana Beach

Emergency 911, Non-emergency:

CA Highway Patrol (O'side)757-1675

Sheriff's department is 753-5591

AAA road service is 753-8917

=====(VISTA)=====

WB6FMT:147.13(+)(107.2)up\*Yy-dwn#Yy)

Escondido, Carlsbad, Fallbrook,

Oceanside, San Marcos, Vista,

Valley Center

Emergency 911, Non-emergency:

CA Highway Patrol (O'side)757-1675

Sheriff's assistance is 728-1113

AAA road service is 758-5570

=====(FALLBROOK)=====

WA6IPD:146.175+ (107.2)up\*Zz-dwn#Zz)

Fallbrook, Oceanside, Pauma Valley

Pendleton, Valley Center, Vista

Emergency 911, Non-emergency:

CA Highway Patrol (O'side)757-1675

Sheriff's assistance is 728-1113

AAA road service is 758-5570

Note that Oceanside is served by all patches. For Oceanside select the WA6IPD/R autopatch when in or near Fallbrook. On KA6UAI/R use the Vista patch (WB6FMT) for Oceanside although it is possible to use the Encinitas KA6UAI patch.

As soon as the new repeater is

available for 146.730 (W6NWG/R) we will probably move the WB6FMT patch over there so that not all of the patch traffic ends up on Erik's KA6UAI/R machine (147.130).

- BK -

We would like to suggest that you load your memories as follows for easy reference:

Transceiver (HT) memories

(without reverse switch)	(with)
#1 146.520s, ARRL Calling freq	#1
#2 146.535s, club simplex	#2
#3 146.130+, input to #3	
#4 146.730-, W6NWG/R	#3
#5 147.130+, 107.2, KA6UAI/R	#4
#6 147.730-, input to #4	
#7 146.175+, 107.2, WA6IPD/R	#5
#8 146.775-, input to #7	

If you have a REVERSE switch, leave out #3, #6, #8, and compress the list. Without a REVERSE switch, this arrangement will allow you to easily check the inputs of the three machines to see if your contact is within simplex range or "your helpful friend" is near you. This arrangement allows you to easily switch between W6NWG/R and KA6UAI/R and also easily check the input of the one you are listening to at the moment. It has been suggested by Henry-WB0YCQ and friends that the 146.535 would be a great CLUB simplex frequency since 146.520 is the ARRL NATIONAL CALLING frequency and should not be used for casual contacts.

If you load (no reverse switch) 146.130+ that if the repeater went off the air in an emergency you could communicate with someone NEAR you just as if you were on the repeater and they probably wouldn't know the repeater was down.

F O R S A I L



(2-16)Crankup twr 45'/6el Wilson beam 10-15-20 + 73HD rotor & cables \$400; 3el hm brew 12m + 73HD rotor 1yr old, 18' mast \$150; mono band 17m + 18' mast & HD73 1yr old \$145;

gud SWAN 500CX w/pwr sup \$150; hm brew 8el Quagi 2m 14' boom \$9: Oscar-726-0459-Vista.

- BK -

(2-15)Nicholas Andree of HIWAY COMPANY, intersection of Wisconsin and Hill streets in Oceanside is back in business and wants to sell off all of his electronic goodies as soon as possible. No reasonable offer will be refused. Nick indicates he will also donate 10% to PARC from items sold to amateurs. Here is your opportunity to really get some good "deals" and help the club too. It would be good to give Nick a call at his home first, 967-7225, to make sure he will be at the store.

- BK -

(2-8)Commodore C-128D computer, Magnavox 876 RGB Monitor new 2-89, lots software \$350; Digicom TNC w/paperwork and disks \$65: Joe-N6RV0-433-6885-Oceanside.

- BK -

(1-24)'91 North American or International CALLBOOK \$24.95, or both \$47.95, add \$1.60 tax/book and 95c shipping/book; send check to Duane-AA6EE-16832-Whirlwind-Ramona-CA-92065-789-3674eves.

- BK -

(1-11)ARRL Repeater Directory 90-91 edition, unused \$5; ARRL '90 Handbook, \$20; Wilson 1402 6-chan 2w HT, charger, broken duckie (no modulation on xmit), \$50; Heath SB-300 rcvr/w speaker & manual, \$200: Mike-WB6CSH-leave msg 283-2447.

- BK -

(1-8)Heathkit SB-610 monitor scope, \$75; National RBL-2 Low Frequency rcvr, \$75: Dennis-N6KI-271-6079.

- BK -

(1-2)Ten Tec Argosy 5-50 watt xcvr with mike, pwr supply, manual: Reasonable Ron-WI6B-756-3133.

- BK -

(12-24)95'TOWER free standing, 4x20', 1x15', removed from Oceanside trailer park, want to recover cost of \$815 to take down or best offer, can deliver, exec. cond.: Chad-N6ZPU-489-8811 Esc.

- BK -

PALOMAR ARC: IBM Code disk for code practice sessions, free disk; guy rope for antennas and masts from 260-770-1790 pounds breaking strength (4-8-12c/ft and 3/32-3/16-5/16" inches); HAM POSTAGE STAMP REPLICA PINS, \$5/ea; Stan-W9FQN-749-0276.

# W A N T E D

(2-9)TV ANT rotator; Kenwood PC-1A: Dennis-N6KI-271-6079.

- BK -

(1-22)A group of members to buy some coax in bulk. Come to the Feb. mtg. and contact Mark-N6NNI.

- BK -

(1-11)ICOM 25A/35A/4SA/24AT accessories: Mike-WB6CSH-leave msg 283-2447.

- BK -

(1-10)January 1991 issue of 73 Magazine (my picture is on page 66): Jo-KB6NMK-741-2560-Escondido.

- BK -

(1-5)Curtis LIL' Bugger Keyer, ICOM keyer module EX243, and ICOM IC-22A: Dennis-N6KI-271-6079.

- BK -

(1-2)2m mobile transceiver: Ray-WA6THC-729-2001

- BK -

(1-2)Heathkit HW-8 QRP rig, will pay premium for quality wiring job: Reasonable Ron-WI6B-756-3133.

-BK-

(12-11)a PARC member who can send computer code Friday evenings over 146.730. IBM's and C-64's work fine for this.

- BK -

(11-16)Chuck-KG6CQ is interested in talking with someone who is using a Mack Plus computer on Packet: Carlsbad 720-9852.

- BK -

(12-20)A few good men & women to help man the RACES station in San Marcos: Paul-N6ISC-727-8777.

## P A R C V E T E S T I N G

FCC LICENSE EXAMS in N.County are conducted by the PARC VE Team at the Joslyn Sr.Ctr, (behind City Hall) 111 Richmar Ave, San Marcos on the 2nd Sat. of the month at 1000 Hrs. Walk-ins are not accepted.

#7-FEBRUARY 12th: 9 applicants,

10 elements, & examinees passed 1 element = 10% e1 pass rate.

Since August'90: 73 app, 109 e1, 62 passed = 57% e1 pass rate.

GEN->ADVANCED: Steve Winterbourne-N6STB.

EXAM TEAM DEC: David Dutcher-AA6KY, Lloyd Hunt-W6TFB, Sam Burdette-W6YYV, Dan Pugh-WA6HYB-code, Jack Hanthorn-KI6JM-reception, Bob Chantrill-KE6VX-reception, and Rusty Massie-AA6OM-director.

Other SANDARC-VEC exams: 1st Sat.E1 Cajon, 3rd Normal Heights, 4th Chula Vista, & last Escondido ARS.

Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTO-COPIES) and copies of license(s) and certificate(s) of successful completion, if any, to SANDARC-VEC. PO Box 2446, La Mesa, CA 92044 10 days B4 the test date. Bring ORIGINALS of licenses & certificates. Questions: call SANDARC 465-EXAM.

de A A 6 O M, Rusty Masse

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## ----- ADS HELP SUPPORT THE " S C O P E " -----

## G E N E R A L N E W S

FLASH - Larry-KC6PEN, a new club member, just received his ORDERS and will be processed in San Diego and shipped to 29 Palms. Larry took over the Thursday evening HAM HELP NET (except for the 1st Thur) and

has been doing some construction on our new control functions at the repeater site. We will miss you Larry (and Kieko) and hope things will cool down so you can come back home soon. Buena suerte amigo.

Larry for the present will not handle PARC's tube chest - more on

this later.

- BK -

THE FACETIOUS NET, late night 147.130, held its VALENTINE dinner at Allie's Restaurant in Encinitas with 32 in attendance. Terry-K3PXX (wife Amy) entertained everyone with feats of magic. The group would





# OPERATION DESERT STORM COMMUNITY SUPPORT BLOOD DRIVE

Mar 91

like to encourage more PARC members and their spouses (or friends) to participate in these social gatherings which turn out to be a lot of fun.

- BK -

SAUDIA ARABIA: Brian Donaldson-KF6BL's address in the January SCOPE should now be corrected to

Sgt. R. B. Donaldson

#224-90-8777

HQ SVC BN 1st FSSG

San Francisco, CA 96608-5702

PFC Gerald Richard Earl

#564-89-7239

16th MP BDE

759th MP BN

984th MP Co.

APO 09657-6420

If you get a chance, drop these two a QSL card or write them a letter. Richard was with the MP's in Panama before being transferred. Brian is presently working in a headquarters unit.

Eric Johnson-KB6EP0 is now in San Diego and it appears as though Mark-AA6TR was the first to contact him on 2m aboard the USS Independence although not until Eric was steaming into the San Diego harbour. Some DX!

- BK -

Dennis-N6KI(9) has now been replaced by R.F. Krist-W6KTE for the most radio call signs:

3D2RK KA5MC 5W1AO FO0RK  
ZL3AFK FO0KTE G5CJL VK2BCE  
PY2ZDH GW5CJL EI2VPF GM5CJL  
W6KTE/CE3-CE7-KH6-VU2-YU2-9N1-0A4-  
VS6-EA4-HS1-(total = 23).

W6KTE also holds CXCC-1 Honor Roll, DXCC eyeball 100, WAZ, WAC, QCWA, OOTC, and SB DXCC - and worked several TV sets and telephones.

- BK -

## N E T S

## 146.73 W E E K L Y E V E N T S

M->S 2000 S.D.Co Traffic Net  
(except 1st Wed club meeting)

MON 2100 Microwave Net

TUE 2100 S.D. Pkt. Voice Net

WED 2100 Open, suggestions?

THU 2100 Ham Help Net

FRI 2100 Code Practice Net

SAT 1000 Sailboaters check-in

SUN 0830 ARES Net

SUN 1000 SSS (Sailboaters Net)

MON 1930 RACES Net on 147.195

With the advent of OPERATION DESERT STORM our evening traffic net has been loaded with MARS (Military Affiliated Radio System) traffic within San Diego County and traffic headed up north (SCNV). We want to thank all net participants and net controls for the great job they are doing.

- BK -

Henry-WB0YCQ and Larry-KC6PEN are pushing the simplex frequency of 146.535 for emergency and rag-chewing in the San Luis Rey valley. They claim to have 17 amateurs in the area and Henry monitors all day EVERY Friday. The club has never had a "club simplex" frequency and this frequency might be worth our consideration as a club frequency. Any comments?

## D I S C L A I M E R S

Meetings at LINCOLN MIDDLE SCHOOL are NOT a function of the Vista Unified School Dist. & are NOT sanctioned by the school Dist. Board of Trustees. See!

Unless specifically stated to be club policy, opinions and statements set forth herein do not necessarily represent club policy even though the president is the temporary Editor. Nor do they necessarily represent the opinions of the authors on other occasions or under different circumstances. The Editor further disclaims any knowledge of anything - real or imaginary. Verily.

You can copy anything out of the SCOPE you want as long as you give credit to THE PALOMAR AMATEUR RADIO CLUB, Inc., and author(s).

## P O T P O U R R I

Larry-W6HKI with his wife Maxine-W6HKL are new advertisers in the SCOPE. Larry operates "THE FISHING HOLE" and Maxine operates the companion booth where she sells earrings (4/\$1 and up). Larry gives PARC members a 10% reduction in price if they have their badge on and he now says he will also give 10% to the club. If you haven't been to an Oceanside swap meet lately, you might consider a visit sometime soon. Its a great place to take visiting guests from other parts of the USA. Larry and Maxine are at No3, Row 14, spaces 1&2.

- BK -

OVERHEARD on 146.73

Art-WH6BLZ - where can I buy an American Flag?

Mark-AA6TR - what color?

John-WB6IQS telling someone about how the Poles sent a combat force to the Gulf - but that the Mexican government didn't know what to do with them. At the last club meeting John was showing a picture of a mobile SCUD launcher.

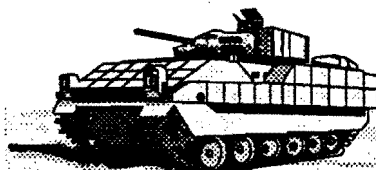
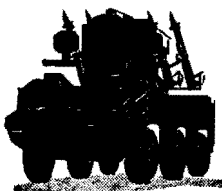
Nic Musil, N60YG, really does some nice printing with his computer and printer. He has a nice colored QSL card which he made up using his equipment.

- BK -

The FLYING SAMARITANS are looking for eye glasses for their Tecate Eye Clinic each month. If you have any old glasses or can locate a supply of them from friends, please bring them to the next meeting and give them to Nacho-W6HCD or Stan-W9FQN. They are also looking for any kind of doctor, nurse, pharmacist, audiologists, dentists, optomologists, hygienists, Spanish translators, etc. to help at Flying Samaritan Clinics in Testerazo, Tecate, Rancho Rosarito, San Felipe, and others to humorous to mention.

- 73 W 9 F Q N -

Write

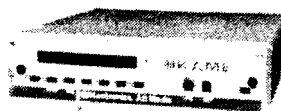


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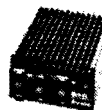
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SOLIDSTATE  
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The original  
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**SWR AND POWER METER**

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## Palomar Engineers

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NO3., ROW 14, SPACE 1&2..

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**ROD  
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COMBO**

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CALLING ALL "FISHING HAMS"  
NATIONAL BRANDS AT DISCOUNT  
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FULL LINE OF TACKLE ITEMS.

LOWEST PRICES IN S.D. COUNTY

EXTRA 10% TO ALL 'HAMS' WEAR

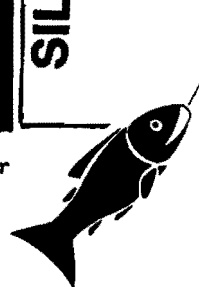
YOUR HAM CALL TO RECEIVE.

W7HKI "LARRY" & W7HKL MAXINE

PARC members

**SPECIAL OFFER**

**MASTER SHIMANO**

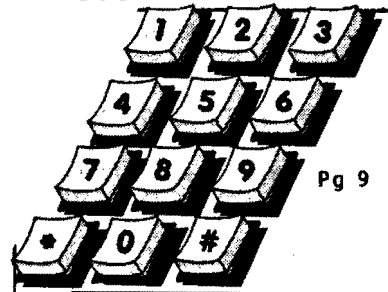


\*\*\*\*\*

0	---	0---	---	50---	---	100---	---	150---	---	200---	---	250---	---	300---	---	350---
1	NO	CPS	KK6	CD	WB6	HFE	K6	LNJ	W6	OML	W6	RWV	WQ6	V	N6	ZRC
2	KBO	DBX	N6	CKQ	WD6	HFI	N6	LTV	N6	OPD	KF6	RX	K6	VGP	N7	AMR
3	WDO	DLW	KH6	CN	WB6	HHV	KC6	LTY	N6	OSR	KK6	RX	AA6	VO	N7	AS
4	NO	EVV	N6	COU	KE6	HI	KK6	LX	W6	OVP	N6	RYZ	KE6	VX	WL7	BLM
5	W0	LAE	K6	CPF	W6	HLB	KC6	LXA	KC6	OXZ	KS6	S	KG6	VX	W7	EAI
6	WBO	YCQ	KG6	CQ	WB6	HMY	KB6	MBL	N6	OYG	W6	SAX	ND6	W	W7	HGS
7	WA1	CSO	N6	CQF	KC6	HPY	KB6	MCU	W6	OYJ	N6	SGQ	NW6	W	W7	HKI
8	KU1	Y	WB6	CSH	WA6	HQM	WB6	MEI	KS6	P	N6	SHB	N6	WEF	KD7	HQ
9	WA1	ZEN	K6	CV	WB6	HSZ	K6	MHG	KC6	PAP	KJ6	SK	N6	WEG	W7	IRE
10	WB2	ICW	KC6	CZO	W6	HTT	WA6	MOS	KC6	PAS	WB6	SML	WB6	WGT	NM7	V
11	W2	MRM	KB6	DGR	W6	HW	KB6	MPZ	KB6	PCF	KJ6	SN	N6	WLX	WR7	W
12	WA3	AAJ	W6	DNX	WA6	HYB	KK6	MS	N6	PDZ	WA6	SVN	W6	WPO	WT7	W
13	W3	ARU	WA6	DOC	WA6	HYC	KC6	MTX	N6	PEA	WM6	T	WB6	WQI	K7	WLX
14	K3	FWT	N6	DSC	K6	HZ	WA6	MUW	KC6	PEN	WB6	TBA	N6	WQR	K7	WMA
15	WA3	HHC	KB6	DSC	KA6	HZF	KB6	MWH	AA6	PN	WB6	TBQ	AA6	WS	AH8	AD
16	WA3	IHV	N6	DUR	K6	ICG	KC6	MWJ	K6	PP	N6	TCB	N6	WSW	WB8	BHE
17	K3	PXX	W6	DVZ	N6	ICH	KC6	MWR	KA6	PPD	W6	TDC	N6	WTE	N9	AKB
18	N4	AWF	WA6	DYV	K6	II	WA6	MYC	KC6	PPN	N6	TEP	WA6	WTZ	W9	AOX
19	KE4	EY	AA6	EE	KK6	IL	N6	MYN	N6	PQQ	W6	TET	WB6	WUI	W9	FQN
20	W4	NYU	KB6	EPO	W6	INI	N6	NAU	KC6	PRH	W6	TFB	N6	WVZ	N9	KAB
21	WB4	YQU	K6	ERW	WA6	INL	WB6	NJY	KC6	PRW	KI6	TG	KD6	WX	WB9	MI
22	KG5	FR	WA6	ESG	N6	INN	W6	NKB	K6	PUN	WA6	THC	KD6	WZ	WB9	RKN
23	N5	HTC	NH6	EW	WB6	IOV	N6	NKF	KC6	QBD	W6	THU	KZ6	X	COUR	RE
24	KB5	MU	W6	EYP	WA6	IPD	KB6	NMK	WA6	QBO	N6	TJT	N6	XYM	HITN	LO
25	N5	NLV	WZ6	F	KC6	IQM	KB6	NML	W6	QCA	KH6	TL	N6	XXP	HOWA	BI
26	KA5	Q	N6	FMK	WB6	IQS	WA6	NNC	N6	QDB	AA6	TR	N6	XXT	POTT	MI
27	WD6	AHV	WB6	FMT	W6	IRM	N6	NNI	KA6	QFF	N6	TRS	N6	XXU	PRAT	JA
28	WD6	AHW	KA6	FPS	N6	ISC	N6	NNP	KB6	QH	N6	TUR	N6	XXV	STOR	TE
29	KB6	AI	W6	FTV	W6	IUG	N6	NNQ	KF6	QH	KK6	TV	N6	YAX	END	
30	N6	AMD	WD6	FWE	W6	IZK	KC6	NPH	N6	QJE	W6	TXK	N6	YEI		
31	KB6	AQS	KK6	FX	W6	IZS	W6	NQZ	WB6	QLC	W6	TZV	KB6	YHY		
32	KC6	AST	W6	FXL	N6	IZW	KC6	NRB	N6	QMI	WD6	U	KB6	YHZ		
33	N6	AT	KD6	FY	NC6	J	KB6	NRL	KC6	QOJ	KA6	UAI	W6	YJU		
34	WI6	B	KC6	GFY	KG6	JA	KC6	NSA	W6	QQA	W6	UAL	W6	YLA		
35	N6	BAD	WA6	GGG	KI6	JM	WB6	NUV	N6	QQF	N6	UCJ	WB6	YLT		
36	W6	BAW	W6	GHD	W6	JRQ	KB6	NUY	WA6	QQQ	WA6	UGG	N6	YMC		
37	WA6	BEJ	KI6	GI	W6	JSP	KB6	NZA	N6	QVA	N6	UIA	N6	YMD		
38	WD6	BEZ	WA6	GID	WB6	JVS	N6	NZX	N6	QVW	N6	UIT	N6	YMH		
39	KE6	BH	N6	GJW	N6	JZB	NE6	O	WA6	QWU	K6	UL	WA6	YOO		
40	KC6	BHE	KB6	GKE	KC6	KCQ	WB6	OBH	KC6	QXU	AA6	UQ	N6	YRS		
41	WB6	BHE	N6	GNB	N6	KI	W6	ODG	WB6	R	N6	URW	N6	YX		
42	W6	BHF	N6	GOS	KC6	KPB	W6	ODU	N6	RAO	WA6	UTQ	W6	YYV		
43	W6	BIH	KA6	GRG	W6	KTE	KC6	OEI	N6	RBS	AA6	UU	N6	YZZ		
44	KC6	BIM	N6	GW	N6	KVY	N6	OEI	N6	RHS	N6	UWU	NG6	Z		
45	KC6	BJM	N6	GWJ	N6	KXD	WA6	OHB	KB6	RIW	K6	UV	WV6	Z		
46	WH6	BLZ	WB6	GXR	AA6	KY	KC6	OHF	N6	RMM	N6	UWG	N6	ZJV		
47	W6	BRF	N6	GZI	WA6	KZN	W6	OLQ	WB6	RTY	N6	UWW	K6	ZOO		
48	WD6	BRX	K6	HAV	WF6	L	KA6	OLZ	N6	RUV	N6	UWX	N6	ZOR		
49	W6	BVU	W6	HC	W6	LCT	AA6	OM	N6	RVO	N6	UWY	N6	ZPT		
50	KK6	CA	W6	HCD	WB6	LEH	KA6	OMA	N6	RWB	N6	UZH	N6	ZPU		
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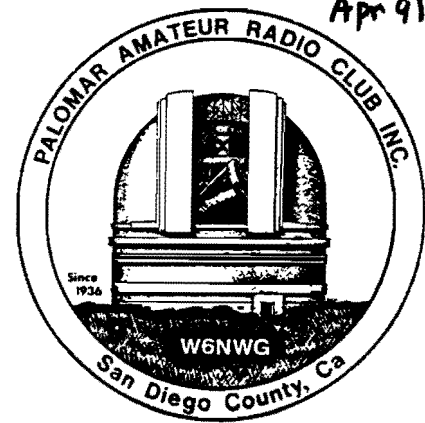
# Palomar ARC





# Scope

W6NWG



## Palomar Amateur Radio Club Inc.

POST OFFICE BOX 1603, VISTA, CALIFORNIA 92085-0530

W6NWG/R => 146.730- 449.425-(107.2) 145.050(Pkt)(NET/ROM NODE) Club 14 (s)/446.000(s)  
KA6UAI/R 147.130+, Patch, Links: 10m & 446.400-, 107.2 WA6IPD/R 146.175+(Patch)(107.2) 220 Club WD6HFR/R 224.900-

V O L X X V I , N O . 4 A P R I L 1 9 9 1 5 5 y e a r s

April 3rd meeting(1st Wed) is at Lincoln Middle School Cafeteria in Vista. I-5 or I-15 to Rd.78, Escondido Ave(Sunset) ramp, north on Esc.Ave, after 2nd light between Eucalyptus and E.Vista Way. Talk in .730.

### What you should know:

#### H A M C A L E N D A R

Mar 30-31 - CQ WW WPX ContestSSB  
Apr 3 Wed - PARC CLub Meeting  
Apr 4 Thu - STS37 Shuttle Launch  
Apr 11 Thu - PARC Executive Mtg.  
Apr 13 Sat - PARC VE Test, AA6OM  
Apr 20 Sat - EARS DFing, ck 146.88  
Apr 22 Mon - EARSauctionEscondido  
May 25-26 - CQ WW WPX Contest CW  
(Send calendar items to W9FQN)

#### C O N T E N T S

ExecMtg, President's Msg . . . 2  
Recognition, SK, Quakes, Ads . 3  
Repeaters, Autopatches . . . . 4  
FORSALE, EARS Auction, Wanted . 5  
Membership, VE Testing, News . 6  
Ads: KI6GI, Palomar Engineers . 7  
Nets . . . . . 8  
Animal Rescue, Potpourri . . . 9  
ARES Info. and application . 10  
Ads: HRO, Fishing Hole, NMK/GZI 11  
PARC Application, . . . . . 12

they "nailed" you for using TOO MUCH POWER and not having a recent copy of Part 97 of the rules and regulations. If you are out jogging or walking with your HT, you had better have a copy of your FCC license with you! Bill, who is also a member of the El Cajon Club, presented to PARC a Field Day engraved trophy for being #1 among the SANDARC clubs in S.D. Co. We were #2 in the United States.

Attending were 74 members and 20 guests who enjoyed the coffee and goodies. Several members were observed not "signing in" but a head count indicated 101 attending which is the second time in the history of the club that we have exceeded 100. Art-KB6YHZ supervised the coffee and Kleko the refreshment table.

#### N E X T C L U B M E E T I N G

Our next club meeting will be April 3rd at 7:30pm in the Lincoln Middle School on Escondido Avenue in Vista. The program will be on wire antennas by Rudy Plak-W6TIK who will display some of the commercial antennas he makes in Escondido.

SHOW AND TELL will feature a portable 6m and 2m beam plus a cheap "J" antenna for your 2m HT. Anyone

else have something of interest?

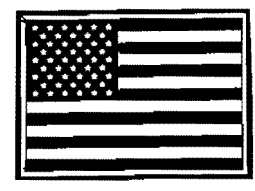
W A N T to B E a H A M ?  
(or Dial-a-Ham)

If you or a friend are interested in becoming an amateur radio operator or in joining the Palomar Amateur Radio Club, please contact one of the ELMERS listed here for more information:

VALLEY CENTER, 749-0276  
StanRohrer-W9FQN, Editor(temp), Pres  
VISTA, 598-0420  
Jack Hanthorn-KI6JM . V-President  
BONSALL, 728-3574  
Nash Williams-W6HCD . . Secretary  
CARLSBAD, 729-5161  
Benton Caldwell-KK6LX . Treasurer  
ESCONDIDO, 741-2560  
Jo Ashley-KB6NMK . . . Membership  
CARDIFF: Duane Stedman-WB6R:753-4821  
CARLSBAD: EleanoreCall: N6QJE:729-0850  
ChulaVista: BetyMahoney-KB6DGR:420-2277  
DEL MAR: GerrySanford: KC6BJM:755-5244  
ENCINITAS: DaveCopley: WA6HQM:753-2605  
FALLBROOK: ArtRideout: WA6IPD:728-6834  
La MESA: Roger Jaffe: N6UWU:697-6025  
LAKESIDE: Mac McBride: WB6GXR:561-2211  
LEUCADIA: Bud Lincoln: KG6VX:436-9983  
LinVista: PaulWilliams: KB5MU:571-8585  
MIRA MESA: Ron Earl: W6TXK:566-1959  
OCEANSIDE: LarryGugle: KC6PEN:439-4109  
OCEANSIDE: Lloyd Hunt: W6TFB:757-9374  
PAUMA-PALA: Mark Ross: KC6CZO:742-1539

#### L A S T C L U B M E E T I N G

The March 6th program consisted of a very informative show-n-tell on various types of interference and how to attack the problems by Bill Smith-KB6MCU. Bill also talked about the recent FCC inspections of amateur stations in S.D. Co. The FCC was requiring an actual radio demonstration contact on HF. Then



PointLom:MickMcDaniel:W6FGE:222-3912  
POWAY:MarkSchlesinger:N6NNI:748-8391  
RAMONA: Vernon Leming:AA6UU:789-3070  
RanchoPen:John Tentor:W6OLQ:672-3891  
RanchoS.Fe:RonWilhelmy:WI6B:756-3133  
S.D.:Dennis Vernacchia:N6KI:271-6079  
SanMARCOS:RustyMassie:AA6OM:747-5872  
SanMARCOS:FloydHarvey:W6JSP:741-8391  
SolanaBe:LouBroadbent:N6CKQ:755-9179

PARC members: if your area is not represented above and you would like to serve as an ELMER in your area to get someone started in amateur radio, please contact W9FQN. Your responsibility would be to introduce them to PARC and club meetings, Ham Radio Outlet, Radio Shack Ham "starter" packages, etc., and other local amateurs. You would serve as "their" first local Ham contact. You need not serve as their ELMER unless you want to do so. Your main function is to tell them "where to go."

Ron-W6TXK sometimes conducts classes in the MIRA MESA area so contact him for the latest information on the starting of his new classes, 566-1959.

POINT LOMA NOVICE INSTRUCTION and TESTING: contact Mick McDaniel, W6FGE and friends, 222-3912.

EL CAJON area is covered by the El Cajon Club with Bill Smith-KB6MCU as the instructor, 582-2313, and EARS in Escondido sometimes conducts classes.

The club has some code tapes available if beginners find some of the "starter" packages a little too expensive, but they still will need a current test booklet. We also have some IBM compatible disks of a great code program available at club meetings. If you have a good code program, please make up a disk with it and several other programs for us to get new hams started. The club will exchange disks with you. We need programs for Apple and C-64's. We presently have programs for IBM

and Radio Shack Mod III & IV.

One of our members from Fallbrook, Ray-KK6CA, has consented to make up special code tapes for those wanting special types of code practice material. Please bring in your blank cassetts and be prepared to tell Ray what type of practice you want.

For those club members who borrowed code disks from W9FQN or KB5MU, we would like to have you make copies of the disks and return them to us at the next meeting so that we can make the disks available to other members and prospective amateurs. Thanks.

- BK -

#### EXECUTIVE MEETING

The Executive Committee, consisting of the officers of the Club and the Chairmen of its committees, meets at 7:30 p.m. on 2nd Thursday after the club meeting at the home of various of its members. You are welcome to attend these meetings. Contact any executive member for additional information on executive committee meetings.

DISCUSSED: appointment of Eleanore-N6QJE as "Care Chairwoman", possible programs for next three months, Novice-Tech training classes, finances, N6OEI request for 900MHz equipment, Larry-KC6PEN appointment as another control operator, DFing of a signal on 146.730, SCOPE problems with ads, SCOPE label additions, stations using the repeaters for relaying their touchtone codes for tone coded squelch which many of the new rigs have with possible solutions to the problem, and phone company regulations which prevent PARC from showing up on the 911 computer screen. After the meeting, John-WB6IQS took us back into his workroom and showed us the new battery charging equipment, control circuits, and the new 146.730 repeater he is working

on.

APPROVED: moving Fri code net to Wed, changing name of Sun. morning ARES net to the PARC Emergency Service net (with ARES info), allowing the new ARES EC's to start up a new ARES net Sunday evening at 2100Hrs (9pm) for ARES members only, re-scheduling of 17th workparty because of bad weather, accepting donations of two slip-up masts and 35' tower, and approving the printing of new contract forms.

IN ATTENDANCE: (officers) Stan-W9FQN, Jack-KI6JM, Nash-W6HCD, and Benton-KK6LX; (others) John-WB6IQS & Steve-N6UIA. The March meeting was at John-WB6IQS's QTH and we all enjoyed the drink and homemade bread. The April meeting will be at WB6IQS(#2), Vista.

de EL PRESIDENTE #9

I am amazed at the distances that quite a few of our members travel to come to our meetings and I noticed that more and more are car pooling, then eating dinner together before the meeting. When we have introductions, look around and see if you can become part of a group coming to meetings. Part of belonging to PARC is the friendship that can be experienced by interacting with other members. Its great to be able to learn from each other. Why not get an "official badge" from John-W6OLQ so we can see who we are talking to?

73, Stan W9FQN

#### NEWSLETTER HELPERS

- March 1991 SCOPE -

Members, Ads-Art, Jo Ashley .. KB6NMK  
Membership Data, Bill Whipple N6COU  
Ad billing \$\$\$, John Tentor . W6OLQ  
Folding/Staples, Jack Hanthorn KI6JM  
also provided QTH & refresments  
Folding/Staples, Bill Whipple N6COU  
also roster and label printing  
Sorting-Labels, BentonCaldwell KK6LX  
Mail/fold . . . Eleanore Call N6QJE  
Printing/Forms, Stan Rohrer . W9FQN

Printed 415 Mailed 385

Without these people life would certainly be difficult (de W9FQN).

# RECOGNITION of

Howard Gates-W4NYU for the donation of a 30' slip-up mast and an 8 element 2m beam. Howard and XYL are moving to Las Vegas soon but will be visiting the SD area (Santee) from time to time. The mast will be used for Field Day (FD) and the beam on a 2m project that is being planned. "Pickup" was by W9FQN and he also picked up the 35' tower, and a 30' slip up mast at Dennis-N6KI's QTH which was donated earlier by Ed-K6ICG. Dennis donated some aluminum tubing towards the 10m beam and says we are going to be NUMBER 1 in Field Day this year so all of these items will help us towards our goal. Thanks to everyone.

- BK -

LARRY E. GUGLE  
Business Lic.#500021, USMC (Ret)

-KC6PEN-

## STCR REPAIR SHOP

Sarge's Two-way Communications  
Repair

25 years communications equipment maintenance experience for the USMC. Specializing in HF & VHF Transceiver & RF power amplifier repairs.

50% OFF labor to PARC members

PARC member

Repairs by appointment

NEW

Eleanore-N6QJE for taking over the chairmanship of the club's Care Committee and for consenting to write up several "interviews" for the SCOPE.

- BK -



Barbara-KA6FPS (mobile) and KC6PEN (base) for reporting a motorcycle accident on I-15 March 6th. New members should be reminded to use BREAK-BREAK as an EMERGENCY break to enter a conversation. A normal break is to just use your call (ie KA6FPS). A BREAK is a little stronger and indicates more urgency than just you call letters. BREAKs are IMMEDIATELY acknowledged and EVERYTHING STOPS with a BREAK-BREAK!

+++++ SK +++++  
+ - W B 6 B H E - +  
+ V A N E S S A H A R V E Y +  
+ Vanessa, wife of Floyd (W6JSP) +  
+ was a long time PARC member and +  
+ member of the Sunday morning ARES+  
+ net. She passed away February 22 +  
+ after a long time illness and she+  
+ will be missed by those of us who+  
+ knew her. +  
+++++ SK +++++

## QUAKES

The ability to forecast quakes is shaky at best and it looks as if we got by the December 2-3 quake alert without a tremor. In China they evacuated Haicheng hours before a 7.3 quake, which leveled the city. There were few deaths because they "read" all the signs correctly. But only a year later a 7.6 quake got past their "system" and destroyed Tangshan, China. About 250,000 died. Earthquakes are like that.

The May 2, 1983, Coalinga earthquake registered 6.5 and seconds later was followed by a 5.0. Their schools suffered damage. WINDOWS: glass not tempered imploded littering the rooms with dagger-shaped pieces of glass, floor tiles and wooden furniture were gouged by flying splinters. LIGHTING FIXTURES: approximately 1,000 fluorescent bulbs fell and broke. CEILINGS: T-bar ceilings came down, and glued ceiling tiles fell. BASEMENTS: flooded to five feet destroying electrical supply and

switching mechanisms. CHEMICAL: sulfuric acid and other chemicals overturned and broke with acid burning through the floor filling the rooms with toxic fumes. MISCELLANEOUS: file cabinets flew across rooms, bookcases fell, shelves fell over, machine shop lathes and presses fell over, typewriters flew through the air, and storage cabinets pulled out of the walls and fell to the floor. School was not in session!

AROUND THE WORLD OR AROUND TOWN

FULL-SERVICE TRAVEL PLANNING

LOREEN WILHELMY

-N6RAO-

619-756-2388



TRAVEL VISIONS

Encinitas, CA 92024

According to FEMA (Federal Emergency Management Agency), there is a 60% probability of a 7.5 or larger earthquake occurring on the San Andreas fault system in S. California during the next 30 years and a 50% probability of a 6.5-7.0 on the San Jacinto fault in the next 30 years. The All-Industry Research Advisory Council estimates that an earthquake measuring 7.5 in Los Angeles could kill about 17,000 people, cause severe injuries to 68,000 people and cause half a million less severe injuries.

The Rose Canyon fault has been recently upgraded to active. San

Diego County has within the last few years felt quakes from 20 miles southwest of Oceanside, Baja California, Sylmar, Whittier, and Palm Springs. Why does the club push our traffic nets, a PARC Emergency Net, an ARES net, Field Day, Sweepstakes, other contests, public service events, and Morse Code? Why does the club have two trailers, 3,360 Ahr of batteries at the repeater site, five crankup towers, and a generator? Will we be ready FOR THE BIG ONE and can we do what will be required of us?

R E P E A T E R S, etc.

TECHNICAL: John Kuivinen.....WB6IQS  
- - TRUSTEES - -

W6NWG/R: Ron Wilhelmy ...WI6B->  
145.05(s)pkt,146.730(-),449.425(-)  
KA6UAI/R: Erik Thompson, 147.130(+)  
WA6IPD/R: Art Rideout, 146.175(+)  
WD6HFR/R: Ron Berger-NE6T,224.900(-)

All CTCSS(PL) tones are 107.2  
Jerry-WB6FMT is looking for a hilltop in the Vista/San Marcos area to put his 450 repeater. Contact WB6FMT or W9FQN if you know of such a place.

- BK -

REPEATER RULE#5: The problem you fixed was only one of several as you will soon discover at the bottom of Palomar Mountain.

- BK -

Remember that when there is a PL required on 147.130(+) that you can "knock" it off with your touch tone (TT) pad by sending \*80.

- BK -

Our repeaters in the PARC bunker on Palomar Mt. at 5,600' cover 2,000 sq.mi. of SD.Co. and 100+ miles out to sea. It is club policy that these repeaters are open repeaters FOR CLUB MEMBERS AND OCCASIONAL TRANSIENT USERS with the AUTO PATCHES being only for club members. Be FRIENDLY to those that you talk to and INVITE them to support the club with their membership. You can check their membership in PARC by asking them if they have seen something in the most recent SCOPE.

## A U T O P A T C H E S

KA6UAI/R: Erik Thompson..#1..KA6UAI  
ENCINITAS + surrounding towns  
KA6UAI/R: Jerry Hauser...#2..WB6FMT  
VISTA + surrounding towns  
SAN DIEGO (activated Spring '91)  
WA6IPD/R: Art Rideout...#4..WA6IPD  
FALLBROOK + surrounding towns

Jerry-WB6FMT comments on the VISTA autopatch: some radar buzz on uplink ..will add automatic gain amp so voice and dial tone the same level ..things going well ..if problems, let me know since I can't fix things that I am not aware of and I also need to know what brand of rig you are using ..some are using the wrong codes ..

If you are having consistent troubles ..suggest checking or considering the following: 1)key mike 1.0 sec before sending any tones, 2)have ur radio checked at shop for proper Touch-tones and deviation, 3)don't let finger slip off small keys resulting in "double" digits, 4)if you are receiving the repeater weakly or ur battery is weak, you might get the 3-digit code but probably will fail in the 7-digit number and leave it "un-completed", 4) not saying "XX6XXX CLEAR OF PATCH BEFORE sending the shutdown codes, and 6)two stations made calls that the FCC might question.

The following PARC members appear to be using the WB6FMT-Vista patch properly: W6LCT, N6NZX, KC6NRB, N6FMK, KC6QXU, KC6PPE, N6YMC, KK6MS, N6WTE, and KC6MTX. Everyone else is making one of the six errors listed above as observed from the 2nd week in February to the first week in March. Three non-members attempted to use the patch.

- BK -

Remember that we have provisions for "locking out" any prefix or any phone number that is not properly used. Jerry and PARC are happy with the way you are using the WB6FMT autopatch and we hope that those of you who are having problems will be

able to correct them sometime soon. The wet weather has caused some problems with the "up-link" which will be worked on as soon as the weather improves. de WB6FMT/W9FQN

- BK -

Remember that for ALL autopatches you need 107.2Hz and to say -

- - push mic switch - -
- 1) N6YZZ(your call) ACCESS PATCH
- 2) dial proper 3-digit "up" access code->Encinitas/Vista/Fallbrook
- - let up on mic - -
- 3) listen for dial tone
- - push mic switch - -
- 4) dial 7-digit phone number
- - let up on mic - -
- 5) complete conversation
- 6) N6YZZ(your call) CLEAR PATCH
- 7) dial proper 3-digit "dwn" code (from your address label)
- - let up on mic - -

- EXAMPLE -

"	BK	BK	..	BK	"
N6YZZ	(749-0276)	talk		N6YZZ	
ACCESS				CLEAR	
PATCH				PATCH	
(*OX)				(*OX)	

The " " in example above indicates your "push-to-talk" pushed and "X" is obtained from a club officer.

(copy for car & home use)

======(ENCINITAS)=====

KA6UAI:147.13(+)(107.2)up\*OX-dwn#OX)  
Cardiff by Sea, Leucadia, Del Mar  
Encinitas, Carlsbad, San Marcos  
Rancho SF, Oceanside & Solana Beach

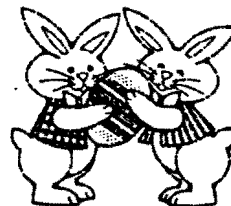
======(VISTA)=====

WB6FMT:147.13(+)(107.2)up\*OY-dwn#OY)  
Escondido,Carlsbad, Fallbrook, Vista  
Oceanside, San Marcos, Vally Center

======(FALLBROOK)=====

WA6IPD:146.175+ (107.2)up\*OZ-dwn#OZ)  
Fallbrook, Oceanside, Pauma Vally  
Pendleton, Valley Center, Vista

For Oceanside select the WA6IPD/R autopatch when in or near Fallbrook. On KA6UAI/R use the Vista patch (WB6FMT) for Oceanside.



What you should do:



## F O R S A I L



If you have an item for sale, bring it to the SALE TABLE at the club meetings, tagged with name, call and minimum price, if any. The Club takes 10% and you go home with \$\$\$. PARC takes no % on the ads below and they are FREE to club members. The month of first being run is indicated by date at the beginning of the ad. PLEASE tell us when the item(s) are sold.

Deadline FORSAIL items is the 15th of the month addressed to the editor at his home address: 30311 Circle R Ln, V.C., CA 92082-9423.

SWAPMEETS: Dennis-N6KI, price\$; John-WB6IQS, VHF, UHF, Hardline; Kerry-N6IZW, Microwave; Paul-KB5MU, Pkt, Computers; and Bill-KB6MCU, ATV.

#### #### ESCONDIDO ARS AUCTION ####

The Escondido Amateur Radio Society (EARS) will hold their annual club auction Monday evening at 7:30pm, April 22, with buyers coming in at 6:30. They meet at the North Co. Blind Activity Center on 157 East Valley Parkway (SW corner of Kalmia/E.V.Pky). PARC members are invited to participate in selling and buying, de WA6Y00, PARC member and president of EARS.

(3-17)1w AM BC xmtr can be converted to 160-40m, schematic, case, meters, mic, used as PA system in hotel, \$50: Ray-W6BHF-487-4423-poway.

- BK -

(3-16)1,000w HEATHKIT's best antenna tuner, dual meters, SWR bridge, 5-ant outputs, \$150; SWAN 400 HF 400w PEP xcvr w/VFO, AC pwr supply & SHURE 44D mic, \$200: Scotty-KH6TL-727-8836-Vista.

- BK -

(3-15)54'Tri-X "motor up" heavy duty TOWER: Jack-WD0DLW-728-0258-Fallbrook.

- BK -

(3-14)Tecktronics OSCILLOSCOPE 50MHz band width, 4 plug-ins, exc cond with new manuals; HP mod 141T spectrum analyzer main frame with

8552B & 8553 plug-ins: Lou-ND6W-437-8351-Coronado.

- BK -

(2-21)YAESU FT-101B xcvr w/CW filter, mike \$325; LEADER 144 MHz Ant Tuner w/SWR & wattmeter (.5,20,100w) \$50; B&K OSCILLOSCOPE w/hv probe \$60; B&K Mod 1400 calibrator \$75: Duane-AA6EE-789-3674-Ramona

- BK -

(2-16)Crankup TWR 45'/6el Wilson beam 10-15-20 + 73HD rotor & cables \$400; 3el hm brew 12m + 73HD rotor 1yr old, 18' mast \$150; mono band 17m + 18' mast & HD73 1yr old \$145; gud SWAN 500CX w/pwr sup \$150; hm brew 8el Quagi 2m 14' boom \$9: Oscar-726-0459-Vista.

- BK -

(2-15)Nicholas Andree of HIWAY COMPANY, intersection of Wisconsin and Hill streets in Oceanside is back in business and wants to sell off all of his electronic goodies as soon as possible. No reasonable offer will be refused. Nick indicates he will also donate 10% to PARC from items sold to amateurs. Here is your opportunity to really get some good "deals" and help the club too. It would be good to give Nick a call at his home first, 967-7225, to make sure he will be at the store.

- BK -

(2-8)COMMODORE C-128D computer, MAGNAVOX 876 RGB Monitor new 2-89, lots software \$350; DIGICOM TNC w/paperwork and disks \$65: Joe-N6RV0-433-6885-Oceanside.

- BK -

(1-24)'91 North American or International CALLBOOK \$24.50, or both \$47.95, add \$1.55 tax/book; '91 ARRL Handbook \$22.95 postpaid; send check to Duane-AA6EE-16832-Whirlwind-Ramona-CA-92065-789-3674eves-Ramona.

- BK -

(1-11)ARRL Repeater Directory 90-91 edition, unused \$5; ARRL '90 Handbook, \$20; WILSON 1402 6-chan 2w HT, charger, broken duckie (no modulation on xmit), \$50; Heath SB-300 rcvr/w speaker & manual, \$200:

Mike-WB6CSH-leave msg 283-2447-SD.

- BK -

(1-8)HEATHKIT SB-610 monitor scope, \$75; NATIONAL RBL-2 Low Frequency rcvr, \$75: Dennis-N6KI-271-6079-SD.

- BK -

(1-2)TEN TEC ARGOSY 5-50 watt xcvr with mike, pwr supply, manual: Reasonable Ron-WI6B-756-3133-R.SF.

- BK -

(12-24)95'TOWER free standing, 4x20', 1x15', removed from Oceanside trailer park, want to recover cost of \$815 to take down or best offer, can deliver, exec. cond.: Chad-N6ZPU-489-8811 Esc.

- BK -

PALOMAR ARC: IBM Code disk for code practice sessions, free disk; guy rope for antennas and masts from 260-770-1790 pounds breaking strength (4-8-12c/ft, 770-???-1790lbs and 3/32-3/16-5/16" inches); HAM POSTAGE STAMP REPLICA PINS, \$5/ea; Stan-W9FQN-749-0276-V.C.

#### W A N T E D

(3-7)KENWOOD PC-1A & ICOM 22-A: Dennis-N6KI-271-6079.

- BK -

(2-21)Solid-state HF xcvr, HF tuner, Tri-bander: Duane-AA6EE-789-3674.

- BK -

(2-18)John-WB6IQS is looking for a 5' ladder (any type) to reach the equipment stored overhead in the repeater bunker. He also needs a 19" rack or support frame for some electronic equipment 4'-5' tall, 12-16" deep. This is to be used for some battery chargers and electronic monitor-control circuits for the new 3,000 Ahr batteries.

- BK -

(2-9)TV ANT rotator; KENWOOD PC-1A: Dennis-N6KI-271-6079.

- BK -

(1-11)ICOM 25A/35A/45A/24AT accessories: Mike-WB6CSH-leave msg 283-2447.

- BK -

(1-10)January 1991 issue of 73 Magazine (my picture is on page 66): Jo-KB6NMK-741-2560-Escondido.

BK -



(1-5)CURTIS LIL' BUGGER Keyer, ICOM keyer module EX243, and ICOM IC-22A: Dennis-N6KI-271-6079.

- BK -

(1-2)2m mobile transceiver: Ray-WA6THC-729-2001

- BK -

(1-2)HEATHKIT HW-8 QRP rig, will pay premium for quality wiring job: Reasonable Ron-WI6B-756-3133.

-BK-

(12-11)a PARC member who can send COMPUTER CODE Friday evenings over 146.730 as a back-up to W9FQN and N6NZX. IBM's and C-64's work fine for this. We would also consider your being able to just play a recorded TAPE which we can furnish to you.

- BK -

#### D O N A T I O N S

If you don't know what to do with it, donate it to the club. Donated items are sometimes used in club projects or are taken to a swap meet for sale with the resulting \$'s going into the club Equipment Fund which pays for equipment used at the repeater site or for Field Day.

#### M E M B E R S H I P I N F O

NEW: Melvin R. Holmes-N6SJQ, Oceanside; David S. Madrick-WB6DZH, Kaw Gardens N.Y.; John Bancroft-WA6ZJC, S.D.

RENEW: Al-N6GNB & Mickey-N6GWJ

MOVED: Susan Rohrer-N6QDB to U. of Redlands; Andrew Magnet-N6OSR to La Jolla, 558-6627; Betty Mahoney-KB6DGR to 1066 Alvarado Dr, Maplewood, Minnesota 55109 (the traffic net will miss you Betty).

If your address label reads other than 9107, 9207, or 9307, contact Jo-KB6NMK for the correct amount of dues to get you "back-in-step" WHEN it is time for you to renew.

#### P A R C V E T E S T I N G

FCC LICENSE EXAMS in N.County are conducted by the PARC VE Team at the Joslyn Sr.Ctr, (behind City Hall)

111 Richmar Ave, San Marcos on the 2nd Sat. of the month at 1000 Hrs. Walk-ins are not accepted.

#8-MARCH 9th: 13 applicants, 44 elements, & 34 elements passed = 77% element pass rate.

Since August'90: 86 app, 153 el, 96 passed = 63% el pass rate.

NOVICE: Mary Shettel-Nevber.

NOVICE->TECH: Steve Twuyver-KC6QIC.

O -> TECH: Mark Criswell, Roy Eyman, Mike Hoggatt, John Levy, Gary Steinberg, Darren Crouse, Phil Goodman, Chuck Huey, Aaron Steinberg, & Jim Witt.

TECH->GEN: Pete Gallagher-pending.

GEN->ADVANCED: Jeff Brown-N6PDP; Mike Doyle-KC6KCQ; Bob Potter-KX6DEP.

EXAM TEAM DEC: Bob Rice-KS6S; Mark Moskowitz-AA6TR, Lloyd Hunt-W6TFB, Jack newlove-AA6UQ, Duane Steadman-WB6R-code; Jack Hanthorn-KI6JM and Bob Chantrill-KE6VX reception, with Rusty Massie AA6OM supervising.

It was a busy test session with many new NO CODE applicants.

Other SANDARC-VEC exams: 1st Sat.El Cajon, 3rd Normal Heights, 4th Chula Vista, & last Escondido ARS.

Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTO-COPIES) and copies of license(s) and certificate(s) of successful completion, if any, to SANDARC-VEC. PO Box 2446, La Mesa, CA 92044 10 days B4 the test date. Bring ORIGINALS of licenses & certificates. Questions: call SANDARC 465-EXAM.

de A A 6 O M, Rusty Masse

#### G E N E R A L N E W S

Received a nice note from Lloyd-W6TFB with a copy of the SCIENTIFIC AMERICAN April 1991 artical on "Is Morse Code Signing Off?" with a history of the morse code. Sixty percent of page 152 was devoted to the new "CODE FREE" Technician Class

license with information on Packet-radio, and 10,000 repeaters. Thanks Lloyd. NEWSWEEK also featured "A NO-CODE HAM LICENSE" which discussed WHAT-HOW-WHEN-WHERE with names of some "speciality" shops. Wonder how HRO got left out of this list?

- BK -

ARRL VE examinations are now costing \$5.25 but SANDARC VE exams, such as given by our PARC VE team in San Marcos, still cost "nothing" but a smile and a "thank you."

- BK -

Linda Rohrer-N6YZZ reported an airport shuttle van turned over on I-15 during a hailstorm (3-13-91) which the police were having trouble locating. The van had a commercial radio and had indicated turning over trapping the occupants but they didn't know where they were. Linda was able to report to the police via W9FQN that they were 50' north of the 78 bridge over I-15.

- BK -

Phil Leonelli-WF6L's Potter JR High School (Fallbrook) is again going to try to establish contact with the STS-37 launch vehicle. Besides talking to the astronauts, they hope to be able to receive pictures from space. We wish them good contacts. Phil and Art-WA6IPD have been doing a great job with these youngsters.

STS-37 Mission Frequencies-down Lnk:

Voice or SSTV: 145.550

Packet: 145.510

SAREX updates are on:

NAN 3.860 7.165 14.295 21.395 28.650

RRR 3.850 7.227 14.280 21.350 28.495

VIO - - 14.270 21.340 224.04

MF 3.840 7.165 - - 145.58

These frequencies are for WA3NAN-Goddard, W5RRR-Johnson Space Center, W6VIO-JPL, and K6MF-Bay area respectively as published by 73 magazine.

- BK -

James-N6WTE indicates that if you are wanting to put up a tower in the Vista area that you need to reference Vista Ordinance of the City Code, 18.58.520 which relates to Amateur Radio Antennas, Maximum



Height. Otherwise, they will want to cause you all sorts of problems and charge you an arm and a leg.

- BK -

According to Hal Grigsby of the SD-FCC, pirate radio stations or unauthorized operations should be reported to his office as soon as possible. We would like to suggest PARC be informed first.

According to one of our new members, Janet Hafner-KC6GFY, her HT has come in handy several times without ever having had to transmit. She has only needed to "show" the HT to keep several "suspicious" people away from her. (Ed note: my family of three women have been instructed to transmit (KA6FPS, N6YZZ, & N6QDB) or pretend to talk when stopped by the police or when bothered by someone. It makes problem people think twice when they know (or think) that someone else is aware of them.) Now if we could just get Janet to look for the push-to-talk switch on that HT!

- BK -

Betty Mahoney-KB6DGR's new address is 1066 Alvarado Dr, Maplewood, MN55109. Betty, many thanks for your help and suggestions while a PARC member! Here is a part of her "fairwell" letter to PARC:

"..I'm one of the few members who never made a meeting ..but don't have to be a meeting goer to enjoy the many fine amateurs that are part of the Palomar group ..thank you for being there ..when I first became a Ham, 146.73 was where I found my niche ..listened to Traffic Net ..then finally jumped in and got my feet wet in 1984 ..will miss all the folks who made Ham Radio so exciting for me ..the many friends I have made through the Net & Facetious Group I hope will be lasting ..hope to get into HF back there, so maybe I will talk to some of you that way ..hope to see you on Packet ..will find a path by hook or by crook - can't have my adopted daughter & son on Palomar Mountain forget me too easily ..besides I have to agitate someone. If you ever get to

Minnesota be sure to look me up. God Bless you & All, 73 Betty-KB6DGR. P.S.-King Henry, I will keep up with the "Mudd Wrestling" & maybe check with you on 10m - pay attention, I may ask questions!" (for years I have heard them talk about "Mudd Wrestling" and I still don't know what it is - W9FQN)

- BK -

FARMERS INSURANCE GROUP  
OF COMPANIES

TIM HOY

-KI6GI-

Agent



AUTO FIRE  
LIFE COMMERCIAL

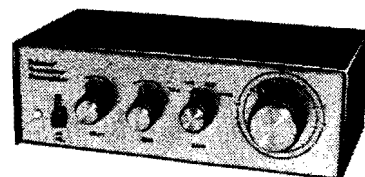
619-466-9770

8911 La Mesa Blvd., Suite 103  
La Mesa, CA 92041

And from Ralph-K6HAV and Pat-N6INN, "...18 straight days where the temperature never got up to 32 deg ..one day the warmest was 2 deg and -11 at night ..cars and retired Marines get cranky and slow starting in those temperatures ..we have inversions here that make the L.A. smog look like clear desert air ..cold air brings fog off the lake and the ground and the inversion holds it in the Great Salt Lake Valley and the junk from the refineries, smelters, and vehicles joins in and makes a fine whitch's brew out of it ..think my dear spouse is beginning to believe this might not be a great place to live in the winter ..she went out in the dark one evening (1-6-91) and slipped on an icy patch, fell and broke the radius of her left arm

right at the elbow ..we have Tuesdays off ..work 75M into SoCal up to 0800 our time ..de K6HAV & N6INN.

## PREAMPLIFIER

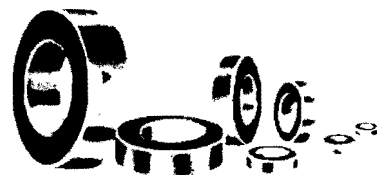


Can't hear the weak ones when conditions are bad? Receiver lacks sensitivity on 20, 15 or 10? Get the world famous Palomar preamplifier. Tunes from 160 to 6 meters. Gives 20 db extra gain and a low noise figure to bring out those weak signals. Reduces image and spurious responses too.

An RF sensing circuit bypasses the preamplifier during transmit. The bypass handles 350 watts.

Model P-410X (for 115-v AC) or Model P-412-X (for 12-v DC) \$164.95. Model P-408 (SWL receive only for 115-v AC) \$139.95.

Add \$4 shipping/handling in U.S. & Canada. California residents add sales tax.



- Iron Powder
- Ferrite
- Shielding Beads
- Ferrite Rods
- Split Beads

Small orders welcome. All items in stock for immediate delivery. Low cost experimenter's kits: Iron Powder, Ferrite. The dependable source for toroidal cores for 25 years.

Call or write for free catalog and tech data sheet.

## PALOMAR ENGINEERS

Box 455, Escondido, CA 92033, USA  
Tel. (619) 747-3343

And from Tom-N4KRA (former 8pm Net Traffic Manager) ..hi to everyone ..little traffic work here

in Pennsylvania near Beaver ..bad luck, reservests killed by SCUD attack were from here ..think of all you traffic handlers at PARC ..best wishes for the new year! Son Tommy is on 10m with the call KA3YCZ most afternoons ..see if you can contact him ..73, Tom.

- BK -

The military has a new antenna: Eyring 300 series. The 101st Airborne wrote in saying that in contrast to vertical antennas, the ELPA 300 lays flat on the ground and can even be buried, yet receives and transmits more effectively than a 15' vertical antenna. ELPA's can be linked together for extended range - doubling the power. de K6HAV. (Sounds great for those of you with antenna restrictions and it would appear that a dipole 1' above the ground with a wire under it would be about the same and give you 80m coverage with NO skip zone out to several hundred miles (Ed))

- BK -

It appears as though it is costing PARC about 8c/copy to mail the SCOPE using 2nd class and pre-sorting everything or about \$30 per month.

- BK -

Our nearest Mexican Consulate is in San Diego, (619) 231-8423.

- BK -

Frank Cassin-N6AT, after MANY years of service as the club's OFFICIAL BULLETIN station, has requested to step down and let someone else copy the ARRL's CW bulletins. In the past Frank has read the bulletins on the Sunday morning ARES net and at club meetings. We need a CW operator to copy these CW bulletins and provide the club with a copy for information to its members. Anyone interested in helping us out? Frank has also been the club's ARRL liaison (ARRL assistant director) and would like to relinquish this position also. Assistant Directors receive free the by-weekly "The ARRL Letter" to help keep their clubs informed (through club nets, meetings, newsletters,

etc.). They also receive other occasional mailings from ARRL HQ and the SOUTHWESTERN Division director, Fried Heyn-WA6WZO. Anyone interested in helping the club with this position?

- BK -

The Marines have just "developed a new 'packet mail' system: error free, 1,200 bytes/s, automatic forwarding, and range beyond the UHF horizon." Wow, what they won't think of next! de K6HAV.

- BK -

Jack-WD0DLW, Mark-KC6CZO and Dennis-K7DCG have been appointed by Art-W6INI, the San Diego Section Manager, to be our local leaders for the Amateur Radio Emergency Service (ARES). Since they have no current records on the ARES members in these two areas, they would like to have you fill out the enclosed application blank and give it to them at the next club meeting or to a PARC officer. It appears as though PARC will be supporting the three groups with our members and emergency equipment resources (trailers, generators, antennas, & repeaters). I suspect that Mark (PARC & EARS) will be working mainly with the Escondido Amateur Radio Society (EARS), Dennis with the Poway ARS, and Jack mainly with PARC. They (W6INI, WD0DLW, K6DCG, & KC6CZO) will need your support and we hope that they will send planning information to the SCOPE for publication.

Don't forget the 8:30am PARC Emergency Information net on Sunday mornings where we give the latest emergency and ARES information. We would also like to have you check the input to the repeater during roll call to see how many of the stations you can hear directly on 146.130. An HT sitting beside you base station could be used to copy W6NWG and your base rig for 146.130. This will give you some idea of your simplex coverage from your location in times of emergency. North S.D. Co. is divided up as follows:

Jack-WD0DLW, TRI-CITY, 92003, 007, 008, 009, 014, 024, 028, 054, 055, 067, 068, 075, 083

Mark-KC6CZO, NORTHERN, 92025, 026, 027, 029, 060, 061, 069, 082

Dennis-K7DCG, N'EASTERN, 92004, 036, 064, 066, 070, 086, 128, 129

Everyone should check to see which district you fall under. If your zip is missing, please let me know so I can publish an up-to-date listing next issue. (de W9FQN)

- BK -

George (Doc) Saltzberg-N6UZG who left the S.D. area for West Linn, Oregon, has now changed his call sign to N7ONZ.

- BK -

Dennis-N6KI(9) has now been replaced by R.F. Krist-W6KTE for the most amateur radio call signs:

3D2RK KASMC 5W1A0 F00RK  
ZL3AFK F00KTE G5CJL VK2BCE  
PY2ZDH GW5CJL EI2VPF GM5CJL  
W6KTE/CE3-CE7-KH6-VU2-YU2-9N1-0A4-  
VS6-EA4-HS1-(total = 23).

W6KTE also holds CXCC-1 Honor Roll, DXCC eyeball 100, WAZ, WAC, QCWA, 00TC, and SB DXCC - and worked several TV sets and telephones.

Moving into second place is Duane Heise-AA6EE with 10 calls:

WNOHAW WOHAW K9EWB WA60RJ AA6EE  
XE2GCK XE2/AA6EE NRBN(MARS)  
K6CUX(Chief Opr) K9BJV(Chief Opr)

#### N E T S

#### 146.73 WEEKLY EVENTS

M->S 2000 S.D.Co Traffic Net  
(except 1st Wed club meeting)  
MON 2100 Microwave Net  
TUE 2100 S. D. Pkt. Voice Net  
WED 2100 Code Practice Net  
THU 2100 Ham Help Net  
FRI 2100 Open, suggestions?  
SUN 0830 PARC Emergency Service  
SUN 1000 Sailboaters check-in  
SUN 2100 ARES Planning Net  
MON 1930 RACES Net on 147.195

#### 8pm T R A F F I C N E T S

Our 2000Hr traffic net has really



been meeting the challenge of all the MARS traffic from Saudi Arabia. Here are some of the stats for the past five months:

	msg/day	ck-ins	
Oct.	2.6	9.1	Highest msg
Nov.	2.6	10.8	count in Feb
Dec.	5.2	8.5	was 20 msgs
Jan.	3.8	12.5	& next high
Feb.	7.2	10.8	was 16 msgs.

Some of the nets lasted over an hour and ran into the 9pm special interest nets. The highest in March so far is 26 messages for one net.

Our thanks go to all of the net members, net controls, net managers, and especially to Joe-N6RVO, and Bob-KG6VX for taking traffic to SCNV on 146.850 at 9pm. and bringing it back to our net the following day.

If you are a new ham, you ought to consider getting your feet wet sometime and see if you can handle some messages for the club. We need reserve net controls and especially members who can make the SCNV net on 146.850 at 9pm.

Also a special vote of thanks to those net members who took messages from the net and called long distance to deliver them to our service families.

#### - BK - O T H E R N E T S

The NORTY COUNTY SUNDAY EVENING ARES net meets each Sunday evening at 2100pm starting sometime in April. This net is for ARES card carrying members.

The PARC Emergency Net still meets Sunday mornings at 8:30am and gives emergency planning information for North County and the latest Amateur Radio Emergency Service (ARES) information. This net is open to all.

The San Diego ANIMAL RESCUE NET meets on 147.130 during emergencies and has priority use of the frequency unless ARES has overflow and needs the autopatch. ARES has priority use of 146.730 during emergencies.

The RADIO AMATEUR COMMUNICATIONS EMERGENCY SERVICE (RACES) NET meets each Monday at 7:30pm on 147.195. Except for net nights, the RACES

repeater uses a PL of 114.8 Hz but not for this net. Contact Frank-WB6HFE on the 8:30am Sunday net on 146.730 for more information about RACES.

#### ANIMAL RESCUE RESERVE (ARR)

San Diego Humane Society & S.P.C.A.  
887 Sherman St, SD 92110-4088  
Ph (619)299-7012

The Animal Rescue Reserve group has been assigned by PARC 147.130(+) to use during emergencies. They also have use of the autopatches on that frequency while ARES will be using 147.130(-).

ARR works closely with the California Department of Forestry (CDF) and its VIP Program in addition to the Humane Society. The frequencies they use are:

N.Co. 147.130(+) S.Co. 146.640(-)  
E.Co. 146.265(+) Patch 147.885(-)

If you would like to join ARR, contact 789-8689 for more information. Most of their emergencies lately have been connected with horses and fires. They use communications on 2m for scheduling the moving of horses and other animals by trailer out of the fire area into a "safe" storage area. In the past they "have also been called out to locate lost animals, transport or check on beached seals or sea birds with broken wings, etc." In January they had a "behind the scenes" tour of SEA WORLD to learn about the handling of sea birds and other mammals. They started a two hour Ham Operator Class January 10th at the S.D. Humane Society on Sherman which meets for 10 weeks working towards a Tech license.

"On December 15th they worked on picking up 18 abandoned horses, some dogs and puppies from Campo. The horses were haltered, loaded, transported, weighed, tagged, and put away at the Poway facility with little trouble."

#### D I S C L A I M E R S

Meetings at LINCOLN MIDDLE SCHOOL are NOT a function of the Vista

Unified School Dist. & are NOT sanctioned by the school Dist. Board of Trustees. See!

Unless specifically stated to be club policy, opinions and statements set forth herein do not necessarily represent club policy even though the president is the temporary Editor. Nor do they necessarily represent the opinions of the authors on other occasions or under different circumstances. The Editor further disclaims any knowledge of anything - real or imaginary. Verily. I really wonder if anyone really reads this?

You can copy anything out of the SCOPE you want as long as you give credit to THE PALOMAR AMATEUR RADIO CLUB, Inc., and author(s).

#### P O T P O U R R I

An incomplete survey of club members indicates a minimum of 15% (57/372) using the 2m repeaters. We suspect it is nearer 50% since we only surveyed members at the last club meeting

- BK -

According to the metropolitan Water District of SoCal, the odds of a major Bay Area earthquake in the next 30 years just went up from 1 in 2 to 2 in 3! Wonder what the odds are for the L.A. area are?

- BK -

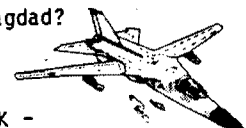
Found an old August 1965 73 MAGAZINE in a pile of donated items..the first page opened to was an article on THE EHS PORTABLE DIPOLE 80 THRU 6 written by Stanley E. Rohrer, W9FQN, at Elkhart High School in Indiana! It worked every frequency from 3.5MHz to 2M using only 75 ohm coax and wire. Those were the "good ole days."

- BK -

OVERHEARD on 146.73

Did you hear about the new supermarket in Bagdad?

No.  
Target!



- BK -

- 73 W 9 F Q N -

# AMATEUR RADIO EMERGENCY SERVICE

by Jack WD0DLW & Mark KC6CZO

You and your radio(s) are needed for upgrading the ARES here in the North County Districts of the San Diego Section.

The EC's of the Northern and Tri-City districts are looking for many good "HAMS"!! Hopefully we can count on you in times of emergencies. Training sessions and field exercises are presently in the planning stages but will be starting soon. Don't miss 'em!!! They will detail, to all, the needs and operations of ARES. If you have not filled out a registration form within the past few months, please do so now. Of course all you NEW, interested Hams, please register. Note the RACES check box! If you are currently a RACES member check this box, and if you have an assignment please indicate what / where it is! We will try to make the same assignment for ARES!!

At the present time we are in the process of designing / implementing a combined Northern / Tri-City Districts "ARES" net. The net will be on the PARC 146.73(-) repeater Sunday evenings at 2100 (9pm) hours. If you have any questions, please call one of the EC's listed. We are looking forward to a very "strong" North County ARES Group.

Tri-City Dist.EC Northern Dist.EC  
Jack Honts WD0DLW Mark Ross KC6CZO  
728-0258 Fallbrook 742-1539 Pauma V

Mail to:

**EC**

**CHAYLON N. HONTES**  
**WD0DLW**  
244 N. Stage Coach Ln.  
Fallbrook, CA 92028



SCOPE-APR'91

To All Radio Amateurs:

The Amateur Radio Emergency Service (ARES) is a voluntary organization of licensed radio amateurs who have registered their capabilities and equipment for providing emergency communications as a service to the community. The purpose of the ARES is to furnish communications in the event of natural disaster, when regular communications fail or are inadequate. Sponsored by ARRL, the ARES functions at the local level to meet local communications needs.

The ARES has a long history of public service going back to its formal inception in 1935. Since that time the ARES has responded countless times to communications emergencies.

Experience has proven that radio amateurs respond more capably in time of emergency when practice has been conducted in an organized group. There is no substitute for experience gained *before* the need arises.

The ARES in each locality operates under the direction of the Emergency Coordinator (EC), whose function is to direct the activities of the ARES to maintain a state of readiness.

1. Name:

2. Call:

## AMATEUR RADIO EMERGENCY SERVICE REGISTRATION FORM



3. Address:

4. City:

5. State Prov.:

6. Zip:

7. County:

8. Home phone:

9. Bus. phone:

10. License Class:

11. Primary radio interest:

12. (Circle band: you can operate)

CW: 160 80 40 20 15 10 .....

440 PHONE: 160 75 40 20 15 10 6 2AM 2FM 220

440 MOBILE: 160 75 80 40 20 15 10 6 2AM 2FM 220

13. Can your home station operate without commercial power? ☐ YES ☐ NO

If yes, what bands? 160 75/80 40 20 15 10 6 2AM 2FM 220

HF equipment, make and model

VHF equipment, make and model

HF antennas, fixed, type

VHF antennas, fixed, type

HF antennas, portable, type

VHF antennas, portable, type

→ NOTE: Portable antennas must be complete with mast, guys, stakes, co-ax, and other hardware.

Emergency power equipment and rating

COMPUTER:

HF phone patch ☐

VHF phone patch ☐

Shelter and transportation

PACKET:

Trailer ☐ Van ☐ Motor Home ☐

Camper ☐ Jeep ☐ 4WD ☐

Tent ☐

Drivers license

Number:

State:

Other:

Date of birth

I (am) (am not) available for non-emergency public service communication.

15. Signed:

16. Date:

19.....

Remarks or limitations

☐ Avail for Red Flag Patrol

☐ RACES

☐ Thos Bros map

☐ Binoculars

☐ Mag mt for \_\_\_ band

☐ Lgtr plug pwr cord

Days off

(assignment)

2-83

SD-INI

EXEC MTG THU 1930Hr, WB6IQS(#2), Vista

Pg. 10

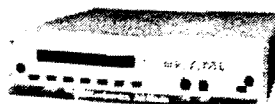
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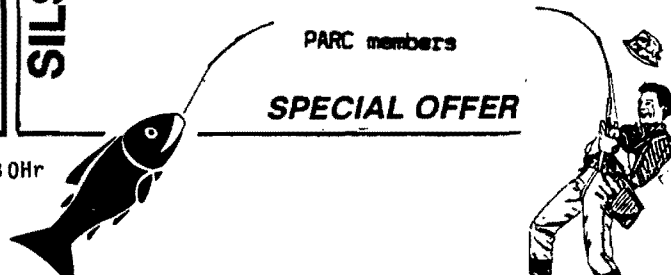
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Mail form with \$\$ to PARC, P. O. Box 1603, Vista, CA 92085-0530 or hand to Jo-KB6NMK, at club meetings. Dues (including SCOPE) are \$12 a year plus \$9 for each additional licensed family member. Dues are prorated for NEW members: Aug, Sep, Oct \$12; Nov \$9; Dec \$8, Jan \$7, Feb \$6, Mar \$5, Apr \$4, May \$3, Jun \$2, Jul \$1. Old members (1yr) \$12. Consider paying for two or three years at a time. Call, name, and complete address are required. Telephone number may be un-unlisted in roster if requested. Other information requested below may be omitted if you feel uncomfortable providing it to the club. Complete and cut on pounds of lion - or COPY.

Call \_\_\_\_\_ Name \_\_\_\_\_  
 License \_\_\_\_\_ Home \_\_\_\_\_  
 Expires \_\_\_\_\_ Address \_\_\_\_\_  
 License \_\_\_\_\_ 1st 5 \_\_\_\_\_ +4 \_\_\_\_\_  
 Class \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ - \_\_\_\_\_

Old Calls \_\_\_\_\_ Home Phone # \_\_\_\_\_ Work Phone # \_\_\_\_\_  
 (ie., pg 8, D6)

Year 1st licensed \_\_\_\_\_ Birth date \_\_\_\_\_ Thomas Brothers location, page # \_\_\_\_\_ coord \_\_\_\_\_

Names & call of family members in PARC \_\_\_\_\_

ARRL \_\_\_\_\_ RACES \_\_\_\_\_ ARES \_\_\_\_\_ Red Flag \_\_\_\_\_ Blood donor \_\_\_\_\_ Type \_\_\_\_\_ Comments: \_\_\_\_\_



##### pounds of lion #####

\*\*\*\*\*  
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**Scope**  
**W6NWG**

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## See inside for details

Forsale, EARS auction, Autopatches  
 Letters, Animal Rescue, VE testing  
 A R E S Application and news

	Membership Information	License
	This issue # -> (PRCyymm)	Expiration
Ur last issue 1f(PRC9104), normal PRC9107	LXyymm	
XX		
DELIVER x		x
x		x
T0: x		x
x		x
x		x
x		x
XX		



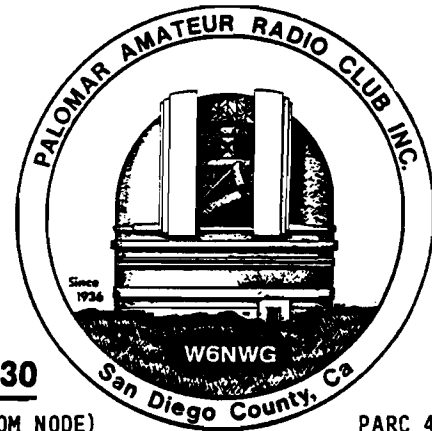


# Scope

W6NWG

**Palomar Amateur Radio Club Inc.**

**POST OFFICE BOX 1603, VISTA, CALIFORNIA 92085-0530**



W6NWG/R => 146.730- & 449.425-  
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145.050(Pkt)(NET/ROM NODE)  
WA6IPD/R 146.175+(Patch)

PARC 446.000(s)  
220 Club SD WD6HFR/R 224.900-

V O L X X V I , N O . 5

M A Y 1 9 9 1

5 5 y e a r s

May 1st meeting(1st Wed) is at Lincoln Middle School Cafeteria in Vista. I-5 or I-15 to Rd.78, Escondido Ave(Sunset) ramp, north on Esc.Ave, after 2nd light between Eucalyptus and E.Vista Way. Talk in .730.

## What you should know:

### H A M C A L E N D A R

May 1 Wed - PARC Club Meeting  
May 9 Thu - PARC Executive Mtg.  
May 18 Sat - Armed Forces Day  
May 23 Thu - SCOPE deadline  
May 25-26 - CQ WW WPX Contest CW  
May 28 Tue - SCOPE mailed @ Vista  
May 31 EARLYBIRD DUES for 91-92yr  
Jun 28 Fri - Field Day work  
Jun 29-30 - ARRL FIELD DAY W6NWG  
(Send calendar items to W9FQN)

### C O N T E N T S

Elmers, ExecMtg, Pres.Message . 2  
Ad-N6RA0, Thanks, Repeaters . . 3  
Ad-KI6TG, Autopatches . . . . 4  
Ad-Palomar Engineers, News . . 5  
Ad-KC6PEN, Membership . . . . 6  
Cameo, Ads-KB6NMK/PalEng, News 7  
Ad-N6GZI . . . . . 8  
Nets, W6INI ARRL info . . . . 9  
FCC, Potpourri . . . . .10  
Ad-HRO . . . . .11  
PARC Application, . . . . . 12

### L A S T C L U B M E E T I N G

The April 3rd program consisted of Rudy Plak-W6TIK from Escondido giving an informative talk on the inverted "V's" which he sells commercially. Rudy discussed the angle between the wire legs (115 deg), height of the feed point above ground (>30'), angle of radiation

leaving the antenna, and how all of this affects the radiation resistance of the antenna (50 ohms with above conditions). The ends should be at least 6-8' above ground. The radiation is vertically polarized. Rudy gave the club a 17M inverted "V" for us to check out. Rudy's backyard ground is chain-link fence 2" below the ground and it is where he does all of his testing. He likes to know where "ground" really is.

SHOW and TELL was by Duane-WB6R with a simple 2m ground plane antenna, computer print-out of a 10m Field Day beam, Stan-W9FQN with a 6-2m portable beam and a simple 2m "J" antenna made out of 300 ohm TV twinlead, fed with 52ohm coax ... and of course, our famous vice-president, Jack-KI6JM, brought in his new "discarded lamp" 2m folding portable antenna fed by 52ohm coax with what looked like a unique inductive feed since we could not find a direct connection between the coax and the metal lamp supports. Jack is famous for his "portable" 2m handi-talkie. Why don't YOU bring something for show-n-tell?

Attending were 82 members and 15 guests (total 97) who enjoyed the coffee and goodies. Art-KB6YHZ

supervised the coffee and Kieko the refreshment table. THE GOODIE TABLE NEEDS GOODIES SO WHY NOT BRING SOMETHING FOR NEXT MEETING. Thanks.

### N E X T C L U B M E E T I N G

Our next club meeting will be May 1st at 7:30pm in the Lincoln Middle School on Escondido Avenue in Vista. The program will be a POTPOURRI of SHOW and TELL by club members on various subjects in order of time available and time will be devoted to your questions during the SHOW and TELL: N6KI-> Field Day, James-N6WTE autopatch use, W9FQN-> DB and what it means, WB6IQS-> coax and coax connectors, KC6PEN-> FM deviation, and W9FQN-> how the club functions. Should be an excellent meeting for new and old timers (OT's). We expect the OT's to put in their two cents worth as each subject is discussed. Larry-KC6PEN will bring a deviation meter to check your deviation (HT that is). Come at 7pm and try to meet someone new! See you there!

W A N T t o B E a H A M ?  
(or Dial-a-Ham)

If you or a friend are interested in becoming an amateur radio operator or in joining the Palomar

## — LOOK INSIDE —



Amateur Radio Club, please contact one of the ELMERS listed here for more information:

VALLEY CENTER . Stan Rohrer . W9FQN  
(President, Editor(temp) 749-0276)  
VISTA . . Jack Hanthorn . . KI6JM  
(Vice-President, 598-0420)

BONSALL . . Nash Williams . . W6HCD  
(Secretary, 728-3574)

CARLSBAD . Benton Caldwell . KK6LX  
(Treasurer, 729-5161)

ESCONDIDO . . Jo Ashley . . KB6NMK  
(Membership Chairwoman, 741-2560)

CARDIFF: Duane Stedman:WB6R:753-4821  
CARLSBAD:EleanoreCall:N6QJE:729-0850

DEL MAR:GerrySanford:KC6BJM:755-5244  
ENCINITAS:DaveCopley:WA6HQM:753-2605

FALLBROOK:Artrideout:WA6IPD:728-6834  
La MESA: Roger Jaffe: N6UW:697-6025

LAKE SIDE:Mac McBride:WB6XR:561-2211  
LEUCADIA: Bud Lincoln:K6GVX:436-9983

LinVistaPaulWilliamsonKB5MU:571-8585  
MIRA MESA: Ron Earl: W6TXK:566-1959

OCEANSIDE:LarryGugle:KC6PEN:439-4109  
OCEANSIDE: Lloyd Hunt:W6TFB:757-9374

PAUMA-PALA:Mark Ross:KC6CZO:742-1539  
PointLom:MickMcDaniel:W6FGE:222-3912

POWAY:MarkSchlesinger:N6NNI:748-8391  
RAMONA: Vernon Leming:AA6UU:789-3070

RanchoPen:John Tentor:W6OLQ:672-3891  
RanchoS.Fe:RonWilhelmy:WI6B:756-3133

S.D.:Dennis Vernacchia:N6KI:271-6079  
SanMARCOS:FloydHarvey:W6JSP:741-8391

SanMARCOS:RustyMassie:AA6OM:747-5872  
SolanaBe:LouBroadbent:N6CKQ:755-9179

Ron-W6TXK sometimes conducts  
classes in the MIRA MESA area so

contact him for the latest  
information on the starting of his

new classes, 566-1959.

POINT LOMA NOVICE INSTRUCTION and  
TESTING: contact Mick McDaniel,

W6FGE and friends, 222-3912.

EL CAJON area is covered by the  
El Cajon Club with Bill Smith-KB6MCU

as the instructor (582-2313) and  
EARS in Escondido sometimes conducts

classes.

PARC has some code tapes  
available if beginners find some of

the "starter" packages a little too  
expensive, but they still will need

a current test booklet. We also  
have some IBM compatible disks of a

great code program available at club

meetings. If you have a good code  
program, please make up a disk with  
it and several other programs for us  
to get new hams started. The club  
will exchange disks with you. We  
need programs for Apple and C-64's.  
We presently have programs for IBM  
and Radio Shack Mod III & IV.

One of our members from  
Fallbrook, Ray-KK6CA, has consented  
to make up special code tapes for  
those wanting special types of code  
practice material. Please bring in  
your blank cassettes and be prepared  
to tell Ray what type of practice  
you want.

#### EXECUTIVE MEETING

DISCUSSED: Bicycle race May 19,  
TASMA dues, ground straps for club  
members, regeneration of DTMF tones,  
52.525 MHz repeater request,  
answering machine and phone lines,  
repeater site work party, & 450  
antennas.

APPROVED: rental fees, stamp pad  
\$17, N6KI autopatch \$500, Aug 18th  
for club picnic.

IN ATTENDANCE: (officers) Stan-  
W9FQN, Jack-KI6JM, Nash-W6HCD, and  
Benton-KK6LX; (others) John-WB6IQS.  
The March meeting was at John-  
WB6IQS's QTH and we all enjoyed the  
drink and cookies. The May meeting  
will be at W9FQN(#1), Valley Center.

#### CORRECTIONS

In the Animal Rescue Reserve  
(ARR) article for April, the first  
paragraph should read: "The ARR  
group has been assigned by PARC  
147.130(+) to use during  
emergencies. They also have use of  
the autopatches on that frequency  
while ARES will be using the  
146.730(-) repeater."

de EL PRESIDENTE #8

Please remember to publicize our  
evening San Diego County Traffic  
Nets (SDCTN) at 8pm, our special  
interest nets at 9pm, and our

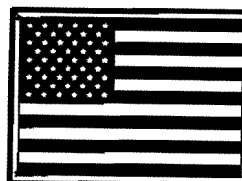
emergency nets on Sunday (8:30am and  
9pm) to those that you talk to on  
the repeaters. These nets ARE FOR  
ALL AMATEURS and you NEED NOT BE A  
CLUB MEMBER to participate in these  
nets. The nets are for ALL amateurs  
in San Diego County. Most of the  
nets are on a solid basis except for  
the two newest 9pm nets: Wednesday  
CODE PRACTICE NET and the Thursday  
HAM HELP NET. Because these nets  
are rather new, their following is  
not as large as the other nets so be  
sure to put in a good word for them  
since they can be of service to  
amateurs and potential amateurs in  
S.D. Co.

- BK -

It seems as though PARC has  
devoted a lot of space (SCOPE) and a  
lot of effort into the operation of  
the autopatches but then these past  
six months have been filled with a  
lot of autopatch activity. Auto-  
patches are a new phase of club  
activity and it will probably take  
another six months to get everything  
down to a "routine" level.

- BK -

FIELD DAY is just around the  
corner, June 29-30, and I assume  
that our fearless FD leaders will  
start pushing everyone to get ready  
for a massive effort this year.  
Bud-K6GVX, our FD chairman, and  
Dennis-N6KI, his right-hand WHIP  
man, have already started several  
projects moving and we hope that  
some of the newer members of the  
club will participate in these  
activities. New members need to  
meet more club members and become  
familiar with antennas, towers,  
equipment, and operating. There is  
no better way to find out what  
amateur radio is all about than by  
participating in FD. I clearly  
remember my first FD and all of the  
crazy amateurs that went out with me  
into an "empty" field for our first  
FD. What a Field Day: solar flares,  
sleeping (??) in tents, replacing an  
old car generator connected to a  
lawn mower engine, and the cows in  
the field anocking down an antenna.  
It has been over 30 years ago but we



still keep in contact with each other by radio, letters or visits.

In 1990 the club scored 2,901 contacts and last year 4,171 contacts in 24 hours. Bud and Dennis are pushing for 6,000 in the 5A classification (5 transmitters operating at one time).

We will again have stations for Novices, Techs, and new amateurs. We hope to run three CW stations this year as well as our HIGH SCORING 20m and 15M stations. Its 24 hours of MADNESS but it sure is a lot of fun!

If you are interested, contact Bud-KG6VX (436-9983) or Dennis-N6KI (271-6079) at the next club meeting, or on the air.

- BK -

The club elects its officers each December and expects them to carry out their wishes. The PARC Executive Committee (EC) consisting of club officers and heads of committees, conducts ALL routine business at EC meetings: approves bills, takes care of problems, and decides what items are important enough to bring before the club members for their vote. We try to keep you informed of our activities through the SCOPE. In the past club members have indicated that they want most of the business conducted by the EC so that our meeting nights can be reserved for programs and socialization. This is why our business section of the club meeting is so short and is mainly announcements.

At present the club is moving toward: 1) autopatiches serving the SD area, 2) a linked 450 repeater to 147.13, 3) emergency gear, 4) improvements to the repeater site, 5) emergency power (AC & DC) at the site, 6) improved communications with our members, and 7) methods of keeping our dues at \$12/year.

If you feel that the EC is not addressing your needs, please attend one of the EC meetings and tell us your concerns or contact a member at the next club meeting.

73, Stan W9FQN

## NEWSLETTER HELPERS

- April 1991 SCOPE -

Members, Ads, Jo Ashley .. KB6NMK  
Membership Data, Bill Whipple N6COU  
Billing Ad, etc, John Tentor . W6OLQ  
Folding/Staples, Jack Hanthorn KI6JM  
also provided QTH & refreshments  
Folding/Staples, Lloyd Hunt .. W6TFB  
Folding/Staples, Bill Whipple N6COU  
also roster and label printing  
Labels . . . . Eleanore Call N6QJE  
Sorting . . . Benton Caldwell KK6LX  
Printing/Forms, Stan Rohrer . W9FQN

Printed 450 Mailed 405

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## RECOGNITION of ->

Mark-AA6TR and Duane-WB6R for inviting repeater users to join PARC. I am sure other members are doing the same thing and we thank you for inviting others to participate in our club atmosphere.

- BK -

John-KC6NTM for making copies of the IBM code program and sending the club the original plus a 4.5" and 3.5" copies for club members to use.

- BK -

John-WB6IQS for the donation of a 6' free-standing ladder for use at

the repeater site. Some of our repeater equipment is in the rafters: duplexers, Heliax, alarm, control wiring, etc.

- BK -

Oscar-W6BIH for the donation of a Wilson 6-element tribander (SY36), 10-15-20m, and assorted goodies. The beam has a gain of up to 9db on 10m, a 20db front to back ratio, and a 24' boom. We hope to use the beam for Field Day. Oscar and his wife are moving back to Detroit to be near family after having moved to California in 1965. Oscar, the way you climb around I thought you were just a few years older than I ... and then I find out you are 92!

(4-7-91) Art-KB6YHZ and Jack-KI6JM for taking Saturday morning off (9-12:30) and helping Stan-W9FQN take down Oscar's beam and drop the 50' tower. Jack served as anchor man on the rope (some anchor) and Art, despite getting up at 6am to haul cement for Anita-KB6YHY, kept Stan supplied with tools and worked on the roof. Art takes care of the coffee for the club on meeting nights.

- BK -

Frank-N6WEF and Mary Lee-N6WEG for taking the PARC Emergency Service Net (ESN) each Sunday morning for April and May. In times of emergency we need as many experienced net controls as possible so if you can help us by becoming a net control, please contact Stan-W9FQN for more information. Net controls usually have the net for two months every two years.

REPEATERS, etc.

TECHNICAL: John Kuivinen.....WB6IQS  
- - TRUSTEES - -

W6NWG/R: Ron Wilhelmy ...WI6B->

145.05(s)pkt, 146.730(-), 449.425(-)  
KA6UAI/R: Erik Thompson, 147.130(+)  
WA6IPD/R: Art Rideout, 146.175(+)  
WD6HFR/R: Ron Berger-NE6T, 224.900(-)  
(All CTCSS(PL) tones are 107.2)

The W6NWG 450 repeater is getting



more and more usage since many of the new HT's and mobile rigs are dualbanders (2m&450). Some of the calls I have heard on 450 are: Carl-N6NZX, Mary-KB6NZA, Stan-W9FQN, Barbara-KA6FPS, Jerry-WB6FMT, and John-WB6IQS. If you are using the 450 repeater, please let us know about it. It's real private up there and most of the users seem to be husband and wife teams. We hope that the fading audio problem can be solved on the next trip to the mountain.

- BK -

If you hear "grunge" on the 147.130 KA6UAI repeater, don't be afraid to put the PL back on the machine with #80 to reduce or eliminate the grunge (the PL is now working). Say something like "REPEATER BEING PL'd", -#80-, and your call. -\*80- turns off the PL. For those of you who are GENERAL or above, the 10m link can be turned ON and OFF with 5\*# & 5#\*: you are on 29.6MHz. Techs can use the 10m link if a General or above turns it on for them. The first 10m contact in April was New Zealand. At the May meeting we will give you some more information about Erik's use and non-use of PL.

Try to keep from using 147.130 from 8-8:10pm because of possible overflow traffic from the evening San Diego County Traffic Net (SDCTN) on 146.730.

- BK -

WORKPARTY (04-07-91): Erik-KA6UAI and Chris-(it's in the mail) removed the 147.130 repeater by carrying it .5mi thru the deep snow on 4-6 to put in some new modifications and returned Sunday to put the repeater back on the air. What some people won't do to keep a repeater working. After solving a few problems (thanks, Jerry-WB6FMT) Erik got everything working properly including the 10m link. Carl-N6NZX and Mary-KB6NZA provided transportation with his 4-wheeled Blazer. Carl reported damage to an autopatch antenna, 220 Club control antenna, and to the battery shed from three

feet of wet snow. John-WA6ZJC, Erik's chief engineer, supervised everything from the comfort of home after having spent the weekend installing modifications into the repeater. Thanks guys, it seems to be working Fine Business (FB).

- BK -

REPEATER RULE #6: The hardware problem you just "fixed" at the repeater site was really just a creative "jammer" which you will soon discover.

- BK -

Our repeaters in the PARC bunker on Palomar Mt. at 5,600' cover 2,000 sq.mi. of SD.Co. and 100+ miles out to sea. It is club policy that these repeaters are open repeaters FOR CLUB MEMBERS AND OCCASIONAL TRANSIENT USERS with the AUTO PATCHES being ONLY for club members. Be FRIENDLY to those that you talk to, and INVITE them to support the club with their membership. You can check their membership in PARC by asking them if they have seen something in the most recent SCOPE.

A U T O P A T C H E S on 147.130  
KA6UAI/R: Erik Thompson..#1..KA6UAI  
ENCINITAS + surrounding towns  
KA6UAI/R: Jerry Houser...#2..WB6FMT  
VISTA + the surrounding towns  
KA6UAI/R: Dennis Vernacchia #3 N6KI  
SAN DIEGO (activated Spring? '91)

A U T O P A T C H on 146.175  
WA6IPD/R: Art Rideout #4 WA6IPD  
FALLBROOK + surrounding towns

Some FM transmitters do not have proper deviation levels for voice and for your DTMF (Touch Tone) pads. Larry-KC6PEN will have the club's deviation meter at the next meeting and will be glad to check the deviation of your equipment or at his house by appointment. Jerry-WB6FMT has an identical unit and can check your deviation by appointment only at his house. Remember, these are checks only and not adjustments.

- BK -

In March there were 5 calls made during the day via the KA6UAI

Encinitas autopatch averaging 108 seconds and 110 calls with Jerry's WB6FMT Vista patch (71 day, 28 evening, and 11 night) averaging 69 seconds a call which is close to the 60 seconds that we would like to see. Several problems with Erik's Encinitas patch have been apparently solved. Jerry has discovered his patch works better with the antenna connected. If you are experiencing any difficulties, please contact Jerry-WB6FMT, Erik-KA6UAI, or Stan-W9FQN. We can't solve problems that we don't know about.

- BK -

Each autopatch is set up to pass all phone numbers in the immediate area and to restrict calls to all other areas. The next autopatch will probably be in the San Diego area. Jerry-WB6FMT reports that his VISTA autopatch link has been having problems when snow and ice build-up on the antenna at the repeater site. This should correct itself in good weather but it will have to be "fixed" before next year's bad weather. Erik-KA6UAI's ENCINITAS autopatch has a new PARC controller which will remove some of the illegal prefixes which slipped through the past two months. All autopatches at present cover Oceanside.

- BK -

Remember, the purpose of the autopatches is to provide EMERGENCY COMMUNICATIONS but you will need to use them for more mundane things till the real emergency comes along.

- BK -

The autopatches are also programmed to respond to emergency, 911, the time, 853-1111, and to the telephone repair number, 611.

- BK -

It has come to our attention that some ALINCO transceivers have their DTMF tones set to too high of a level resulting in distortion which will not bring up some of our autopatches. It's easy to fix. Open up the microphone and turn down (CCW) the potentiometer from 11am to about 8am (3 hours). So far, all



SCOPE-MAY'91

EXEC MTG THU 1930Hr, W9FQN(#1), Valley Center



Pg. 4

ALINCOs that Jerry has adjusted have now started bringing up the patches. Jerry also indicates that rigs that give off the touch-tones rather than a beep allow the sound to get into the microphone (some Kenwoods) causing distortion and improper patch operation. There might be other rigs out there having similar problems. It is also suspected that there is some distortion coming into play at the repeater site which we hope to eliminate by decoding at the repeater site and generating NEW clean tones for the patches.

- BK -

For ALL autopatches say-

"	BK	BK	BK	"
*OX	(749-0276)	talk	N6YZZ	
(tone)			CLEAR	
N6YZZ			PATCH	
ACCESS PATCH			(tone)#OX	

The " " in example above indicates your "push-to-talk" pushed and "X" is obtained from a club officer or from your address label listed 1st-Encinitas, 2nd-Vista, 3rd Fallbrook.

(copy for car &amp; home use)

PL ON #80, PL OFF \*80 for 147.130  
Link 29.6, 5\*# ON, 5\*# OFF(no Techs)

------(ENCINITAS)-----

KA6UAI:147.13(+) up \*.. - down #..  
Cardiff by Sea, Leucadia, Del Mar  
Encinitas, Carlsbad, San Marcos  
Rancho SF, Oceanside & Solana Beach  
------(VISTA)-----

WB6FMT:147.13(+) up \*.. - down #..  
Escondido, Carlsbad, Fallbrook, Vista  
Oceanside, San Marcos, Vally Center  
------(FALLBROOK)-----

WA6IPD:146.175(+) up \*.. - down #..  
Fallbrook, Oceanside, Pauma Vally  
Pendleton, Valley Center, Vista

For Oceanside select the WA6IPD/R  
autopatch when in or near Fallbrook.  
On KA6UAI/R use the Vista patch  
(WB6FMT) for Oceanside.

F O R S A I L



(4-18)HEATHKITS SB-221 HFamp 1KWcw  
2KWssb w/manual \$225; IG-102 RF  
SigGen 100KHz-220MHz 2/man \$35; EICO

232 VTVM 2/man \$35; CHUSHCRAFT 10-  
3CD 3el 10m beam w/man \$65; ASTATIC  
D-104 mic w/stand and amp inop. \$25;  
Eric-XE2/KB6EP0-82-02-83-Tijuana,  
WANTED-TRADE for R-5 vertical ant.

- BK -

(4-15)Manuals FREE for asking:  
KENWOOD PS-430, SWAN wattmeter WM-  
1500, SWAN pwr supply descriptions,  
EICO Mod-425 Oscilloscope, &  
COMPLETE BOOK OF SB-220 MODS. They  
will be brought to the May club  
meeting: W9FQN

- BK -

(4-15)Collins 75S3 W/E mint \$475;  
Collins Amp 30L-1 R/E \$675; Estatic  
D-104 mic new \$45; Bearcat 220  
scanner \$150; Alan-N7AMR-4 34-5656-  
Carlsbad.

- BK -

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Agent

TIM HOY -KI6TG-



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La Mesa, CA 92041

(4-13)Kenwood TS-711A 2m all mode  
xcvr, TU-5, VS-1, TT mic \$700; Janel  
QSA-5 2m receiving amp 30w \$30;  
Westcom 2m amp 15w in 70w out \$70;  
Ten-Tec mod 238 2kw ant tuner \$275;  
Autek WM-1 HF Wattmeter/SWR \$80; B&K  
mod 1460 10MHz oscilloscope \$90; B&K  
mod 1400 scope calibrator \$125;  
Duane-AA6EE-789-3674eves-Ramona.

(4-13)'91 North American Callbook  
\$24.99; International Callbook \$24;  
both \$28.99; Callbook Supplement  
(published June 1) \$10.49; 1991 ARRL

Handbook \$22.99; all Postpaid & add  
6.5% tax; male check to Duane-AA6EE-  
16832-Whirlwind-Ramona-CA-92065-789-  
3674eves-Ramona.

- BK -

(4-6)From one of the neatest  
professional looking stations I have  
ever seen => TS-940S mint xcvr  
\$1,400; ICON 745 w/ps xcvr \$600;  
ICOM 720 w/ps xcvr \$700, ICOM 211 2m  
xcvr \$350; new Swan WM-2000A swr pwr  
meter 2kw pep \$50; Water 1kw dummy  
load 1.3-250MHz \$100; Tempo RBF-1  
200-2kw 50/75 ohm SWR meter \$35;  
R.F. Labs mod V76 6m solid state  
amp, 8:15w in & 100-120w out \$250;  
Autek QRM QF1A AM-CW-SSB filter \$40;  
MFJ 945C ant tuner \$40; MFJ 949D ant  
tuner 300w \$80; Outbacker mobile ant  
75-10m \$150; Outbacker hvy duty  
mobile spring and mount \$35; Curtis  
Lil'Bugger keyer \$25; Hustler fiber  
glass mobile mast w/RM15 resonator  
\$25; R.F. Krist-W6KTE 941-3555-  
Vista. Hope you are not moving de  
W9FQN!

- BK -

(3-17)1w AM BC xmtr can be converted  
to 160-40m, schematic, case, meters,  
mic, used as PA system in hotel,  
\$50: Ray-W6BHF-487-4423-poway.

- BK -

(3-16)1,000w HEATHKIT's best antenna  
tuner, dual meters, SWR bridge, 5-  
ant outputs, \$150; SWAN 400 HF 400w  
PEP xcvr w/VFO, AC pwr supply &  
SHURE 44D mic, \$200: Scotty-KH6TL-  
727-8836-Vista.

- BK -

(3-15)54'Tri-X "motor up" heavy duty  
TOWER: Jack-WD0DLW-728-0258-  
Fallbrook.

- BK -

(3-14)Tecktronics OSCILLOSCOPE 50MHz  
band width, 4 plug-ins, exc cond  
with new manuals; HP mod 141T  
spectrum analyzer main frame with  
8552B & 8553 plug-ins: Lou-N06W-437-  
8351-Coronado.

- BK -

(2-15)Nicholas Andree of HIWAY  
COMPANY, intersection of Wisconsin  
and Hill streets in Oceanside is  
back in business and wants to sell  
off all of his electronic goodies as  
soon as possible. No reasonable

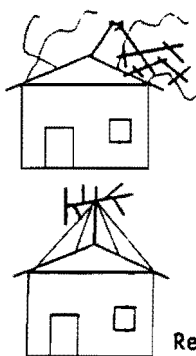
## FREE ADS FOR MEMBERS

offer will be refused. Nick indicates he will also donate 10% to PARC from items sold to amateurs. Here is your opportunity to really get some good "deals" and help the club too. It would be good to give Nick a call at his home first, 967-7225, to make sure he will be at the store.

- BK -

(2-8)COMMODORE C-128D computer, MAGNAVOX 876 RGB Monitor new 2-89, lots software \$350; DIGICOM TNC w/paperwork and disks \$65: Joe-N6RV0-433-6885-Oceanside.

- BK -



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, Interference Resolution Edward Ross

542-1405

**Antenna** N6GZI  
**Specialties**

(1-2)TEN TEC ARGOSY 5-50 watt xcvr with mike, pwr supply, manual: Reasonable Ron-WI6B-756-3133-R.SF.

- BK -

(12-24)95'TOWER free standing, 4x20', 1x15', removed from Oceanside trailer park, want to recover cost of \$815 to take down or best offer, can deliver, exec. cond.: Chad-N6ZPU-489-8811 Esc.

W A N T E D

(4-9)Dog team for trips to and from the repeater site.

- BK -

(1-11)ICOM 25A/35A/4SA/24AT accessories: Mike-WB6CSH-leave msg 283-2447.

**YOU**  
can respond  
to one of  
these ads  
right now...

- BK -

(1-2)2m mobile transceiver: Ray-WA6THC-729-2001

- BK -

(1-2)HEATHKIT HW-8 QRP rig, will pay premium for quality wiring job: Reasonable Ron-WI6B-756-3133.

-BK-


A PARC member who can send COMPUTER CODE Wednesday evenings over 146.730 as a back-up to W9FQN and N6NZX. IBM's and C-64's work fine for this. We would also consider your being able to just play a recorded TAPE which we can furnish to you.

- BK -

The club passed the 400 member mark sometime around April 3rd which is a club record. I was told that at the end of our last club year (July) that we hit about 401. We generally loose quite a few members in August: moved, no longer interested in the club or amateur radio, FORGOT TO RENEW, etc. but the trend is to keep getting larger while some other clubs are dropping in membership. We are one of the larger CLUBS in the USA (excluding repeater groups) and it is probably due to our population density, club activities, and our repeaters. THANKS to all of you who have been friendly to those you meet and for "pushing" PARC membership. Your dues\$ allow us\$ to improve our service\$ to club member\$. - de W9FQN.



C A M E O G U Y S and D O L L S K-B-6-N-M-K: JO ASHLEY; past secretary of PARC; PARC membership chairwoman; expert Direction Finder; co-winner 2nd place SW Div DFing; member EARS; PARC art and business ads; licensed four years; Technician Class; PARC liason to EARS; regular member PARC Executive Committee; past Field Day station chairwoman; keeps PARC president honest; RACES; 1990 Southwest Division Program booklet; ARES net control station; member North County Traffic Net and former net control; mother of Terri-N6UZH and AJ-KB6NML; husband makes Indian dolls; QTH Escondido;


operates mostly 2m at QTH and mobile; born in England but moved to Australia; now selling real estate (see ad).



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-KB6NMK-  

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If your address label reads other than 9107, 9207, or 9307, contact Jo-KB6NMK for the correct amount of dues to get you "back-in-step" WHEN it is time for you to renew. Check your label to see if it is expiring at the same time as most members PRC9107 ('91July). If not, please adjust the amount you pay so that you "get back-in-step" so that it ends in PRC9207, PRC9307, PRC9407, etc. Dues are \$1/month (+75c/mo/spouse) so the correction is easy to do - if you can read your label. Of course, if you owe less than \$12, you might consider paying the amount indicated plus \$12 which would put you in step with 9207 or 9307. Many members pay 2-3 years at a time. Interest on \$12 these days is approaching the cost of a stamp so why not go for two years. Below, if your label reads 9105, you would owe \$2 to take you up to 9107 but being so close to the renewal date you should send in \$2 + \$12 which would complete this club year and take you up to 9207. OF COURSE, IF

THIS CONFUSES YOU, JUST SEND IN \$12. It is probably better to error on sending in \$1 too much to be sure that you end in PRC9207 or PRC9208. We find that memberships that do not end in July many times don't notice that their membership has ended and then after several months start wondering what happened to their newsletter.

# GET BACK IN STEP

ur label	new	+ \$12
PRC9104 \$ 3	-> 9107 or \$15	-> 9207
PRC9105 \$ 2	-> 9107 or \$14	-> 9207
PRC9106 \$ 1	-> 9107 or \$13	-> 9207
-----		
PRC9107 \$12	-> 9207 or \$24	-> 9307
-----		
PRC9108 \$11	-> 9207 or \$23	-> 9307
PRC9109 \$10	-> 9207 or \$22	-> 9307
PRC9110 \$ 9	-> 9207 or \$21	-> 9307
PRC9111 \$ 8	-> 9207 or \$20	-> 9307
PRC9112 \$ 7	-> 9207 or \$19	-> 9307
PRC9201 \$ 6	-> 9207 or \$18	-> 9307
PRC9202 \$ 5	-> 9207 or \$17	-> 9307
PRC9203 \$ 4	-> 9207 or \$16	-> 9307
PRC9204 \$ 3	-> 9207 or \$15	-> 9307
PRC9205 \$ 2	-> 9207 or \$14	-> 9307
PRC9206 \$ 1	-> 9207 or \$13	-> 9307
PRC9207 \$ 0	-> 9207 or \$12	-> 9307

UAI FMT IPD expiration dates  
 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx  
 x \*OX \*OY \*OZ PRC9107 LX9505 x  
 x (PARC) (License)x  
 x PARC HAM x  
 x W6NWG x  
 x P.O.Box 1603 x  
 x Vista, CA 92085-0530 x  
 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx  
 One group in S.D. Co. charges \$50/year and another large group \$16/yr and \$10 initiation (\$26) so \$12 dues for an "all purpose" club is not bad at all: club meetings, repeaters, autopatches, contests, VE testing, traffic and special interest group nets, etc.

## GENERAL NEWS

CARLSBAD SAFETY CENTER: 4/16/91 RACES conducted a drill with the Carlsbad Unified School District simulating a 7.5 earthquake. The

school system handled THEIR communications through the school's internal emergency radio system and the RACES personnel at each site reported back to the Carlsbad Safety Center as a check on each others communications ability.

## LARRY E. GUGLE -KC6PEN- STCR REPAIR SHOP

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 PARC member

25 years communications equipment maintenance experience for the USMC. Specializing in HF & VHF Transceiver & RF power amplifier repairs by appointment.

At the site I was at, I noticed some of the problems they were having:

- 1) Their communicator did not know where the school center was located and stood between the center and their HTs, blocking their signals. They also stood with buildings blocking their HT signals.
- 2) Their communicator did not move around to HOT SPOTS to improve the signal.
- 3) Messages were not written down and the communicator gave them from memory with some errors.

It was an interesting drill and again demonstrated that amateur radio with RACES operators are better because of their equipment and their training in the handling of messages even though we did have some temporary problems working a simplex frequency. We amateurs learned that there is no substitute for a repeater if you are only going to use HT's for communications.

The school I was at suffered two deaths (simulated), a spinal injury, a broken leg, collapse of administration building, fallen Hi-Voltage power lines onto the school grounds, and a six foot wide opening of the earth! Wonder what fault they are on!

The Carlsbad School system should get an A+ for having a written emergency plan and for putting it into operation each school year. I wonder if the schools in your district are as well prepared to face emergencies.

The following club members participated: Eleanore-N6QJE, Ellen-N6UWW, Jo-KB6NMK, Gerry-KC6BJM, Frank-WB6HFE, and Stan-W9FQN. Others participating were N6QJO, and N6ELP.

- BK -

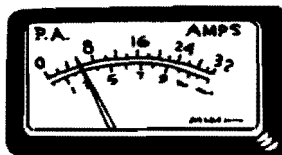
John-WB6IQS has been appointed as Vice President of his local EIII chapter and is in charge of programs.

Jo Ashley, KB6NMK, one of the SCOPE advertisers, is a REALTOR and her last listing sold in less than a week. Jo is active in DFing and knows many of the "high" spots in North County - if you are looking for a change in housing. Received a nice ERA card from her last week.

- BK -

On the opening of the 102nd Congress, Representative Cooper of Tennessee introduced a bill called the "SPECTRUM PROTECTION ACT OF 1991". It is designated H.R. 73. This bill, if enacted into law, would prohibit the FCC from removing spectrum from the Amateur Service and would require the FCC to provide equivalent replacement spectrum (remember 220?) if a portion of Amateur Radio Spectrum is reallocated after January 1, 1991.

Now is the time to get other members of the House of Representatives to support H.R. 73. Please write your Representative and ask for his or her support of H.R. 73. You could also ask your Rep. to become a co-sponsor of the bill. We need 218 members of the House to

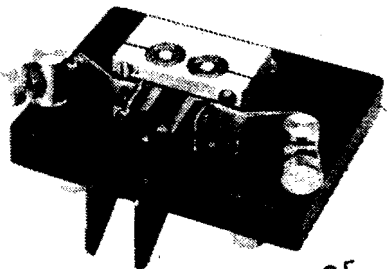




become co-sponsors to insure passage of the bill.

Your representative in San Diego's North County is Ron Packard, Suite 105, 2121 Palomar Airport Road, Carlsbad, CA 92009. Please send a copy of your letter to Perry Williams at ARRL Headquarters. He will work from the Washington office to help sign up the co-sponsors.

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It is very probable that a similar measure will be introduced in the Senate. When this happens, we will need to contact the Senators and urge their support and ask for co-sponsorship.

A simple handwritten note is all that is needed. Express your concern over the spectrum lost in the past and how that affects our ability to function in emergencies, to pass emergency traffic, health and welfare traffic, etc. Congressmen do listen to their constituents. de Harry-WA6Y00.

Thanks to all those who sent me information on HR73 and to N6RMM for a copy of the bill. ..de W9FQN and see W6INI's info mas tarde.

- BK -

M-E-X-I-C-O: according to Eric-KB6EP0, I will have to update my HOW TO GET A MEXICAN XE2 CALL sheet that

has been sent throughout the USA. Eric indicates that you can now get your call in a few hours through the Baja Tijuana equivalent of our FCC without going to Mexicali. The cost is about 163,000 pesos at about 3,000p per \$1! More on that later when Eric and I get some maps drawn up. Contact Stan-W9FQN (ex XE0FQN) or Eric-XE2/KB6EP0 if you are in a hurry. They used to issue ZERO calls in the 60's to only mobile stations and I drove all over Mexico for years in my Olds convertible during the summers with a KWM-2 HF transceiver in the car with two 12v->110v Heathkit inverters and the tube filaments tied to 12vDC. Sometimes I carried a 350w Honda generator in the car and ran it in the trunk or back seat while driving. Those were the gud-ol days!

- BK -

Bob-WA7GRW from San Francisco was on 146.73 the weekend of April 6th and wanted to say HI to the old gang ..still in microwave ..working 60hrs/wk ..might be coming back to this area. They still have their house here and only returned because a washing machine pipe broke ..and us with a water shortage.

- BK -

Received a nice letter and membership from David Madrick-WB2DZH who on a recent visit enjoyed the use of the PARC's repeaters. Sorry, David, you can't hit our repeaters from "2" land but we are happy to count you as a member! On second thought, if you had a sked, you could possibly work into 147.130 on 29.6(-). We have about 37 members outside of S.D. Co. in the USA who receive the SCOPE.

## NETS

### 146.73 WEEKLY EVENTS

M->S 2000 S.D.Co Traffic Net  
(except 1st Wed club meeting)  
MON 2100 Microwave Net  
TUE 2100 S. D. Pkt. Voice Net  
WED 2100 Code Practice Net  
THU 2100 Ham Help Net

SUN 0830 PARC Emergency Service  
SUN 1000 Sailboaters check-in  
SUN 2100 ARES Planning Net ??  
MON 1930 RACES Net on 147.195

## 8pm TRAFFIC NETS

Our 2000Hr San Diego County Traffic Net (SDCTN) is still handling a lot of MARS traffic and could use some local help on 146.73 and help with SCNV traffic into and out of the area on 146.850 at 2100Hrs.

### msg/day ck-ins

Month	8.7	10.0	high in March
Mar.	8.7	10.0	high in March
Feb.	7.2	10.8	was 19 msg
Jan.	3.8	12.5	with 5 days
Dec.	5.2	8.5	over 20 msg

- BK -

NETS ON 146.730(-)

In general, repeater time is structured as follows:

Mobiles	Open	Traffic	Special
6-8a,4-6p	8a-8p	2000Hrs	2100Hrs

The SAN DIEGO COUNTY TRAFFIC NET(SDCTN) meets each evening at 2000 hours to pass messages within and out of the county. Please check into the net or listen for traffic in your area. Net managers are Joe-N6RVO, Chuck-N6TJT, and Rich-KI6ZH. Net controls are (M->S): Dave-WA6HQM, N6RVO, Tim-WA1ZEN, Warren-W6EYP, Chuck-N6TJT, Carl-N6NZX, Charles-N6TEP. SCNV liaisons are: N6RVO, Bob-KE6VX, and KI6ZH.

The Sunday NORTH COUNTY PALOMAR AMATEUR RADIO CLUB EMERGENCY SERVICE net meets each Sunday morning at 8:30am to disseminate ARES and emergency preparedness information to amateurs in North County and other interested amateurs throughout the county. Net manager is Stan-W9FQN. Other net controls are: Jo-KB6NMK, Carl-N6NZX, Mary-KB6NZA, Floyd-W6JSP, Nash-W6HCD, James-N6WTE, Elenore-N6QJE, Steve-N6UIA, Frank-WB6HFE, Norm-N6QQF, Larry-WA6UTQ, Marylee-N6WEG & Frank-N6WEF.

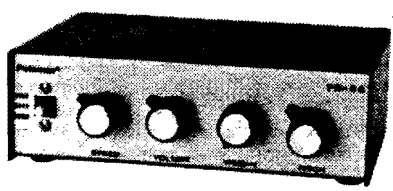
The Sunday morning SAILBOATERS



SESSION net (SSS) meets each week at 10:00 am to allow sailboaters to talk about things of interest in Sailing. Also check 1000 Saturday mornings. Informal net controls are: Mark-AA6TR and Larry-W6QCA.

A Sunday evening AMATEUR RADIO EMERGENCY SERVICE (ARES) net will soon be starting at 9:00pm. Watch for details.

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PALOMAR ENGINEERS

Box 455, Escondido, CA 92033  
Phone: (619) 747-3343

The Monday Evening MICROWAVE NET meets each week at 2100 hours to disseminate information on microwaves. Kerry-N6IZS is moderator and net control. Other net controls are: Ed-W60YJ, & K6DS. Suggest you join the microwave group if you have a real interest in microwave.

The Tuesday VOICE PACKET NET meets each week at 2100 hours to disseminate the latest information on packet. Paul-KB5MU is moderator and net control. Other net controls are: Mike-WB6HHV, & N6NKF. Suggest you join SANDPAC if you are interested in packet.

The Wednesday evening CODE PRACTICE NET meets each week at 2100 hours to help amateurs practice

their code and to let you see what you present code speed is. Net controls are: Stan-W9FQN, Carl-N6NZX, & Mary-KB6NZA. We need more net controls who have computers that can be used to send code practice material.

The Thursday HAM HELP NET meets each week at 2100 hours to help amateurs with their amateur radio related problems: transmitters, receivers, antennas, feedlines, etc. Stan-W9FQN is presently net manager. Net controls are: John-KK6IL-(1st), Larry-KC6PEN taking the rest of the month except for Joe-N6YMD who will take the Thursday executive meeting night.

ARES uses 146.730(-) when they have emergencies and ARES has priority use of the frequency. The Animal Rescue group uses 147.130(+) for emergencies but must also accommodate ARES's overflow and use of the autopatches.

#### DISCLAIMERS

Meetings at LINCOLN MIDDLE SCHOOL are NOT a function of the Vista Unified School Dist. & are NOT sanctioned by the school Dist. Board of Trustees. See!

Unless specifically stated to be club policy, opinions and statements set forth herein do not necessarily represent club policy even though the president is the temporary Editor. Nor do they necessarily represent the opinions of the authors on other occasions or under different circumstances. The Editor further disclaims any knowledge of anything - real or imaginary. Verily. I really wonder if anyone really reads this?

You can copy anything out of the SCOPE you want as long as you give credit to THE PALOMAR AMATEUR RADIO CLUB, Inc., and author(s).

The ARRL SECTION MANAGER's REPORT  
de Art Smith, W6INI  
We have a golden opportunity to do

something to prevent the FCC from repeating the 220 MHz fiasco. Some of you may already know this since it has been in the Amateur Radio news for two months, but it bears repeating because every license amateur (and his friends!) needs to write to their Congressman.

Congressman Jim Cooper of Tennessee, a member of the House Committee on Energy and Commerce has introduced an amendment to the Communications Act of 1934 to prevent the loss of our existing spectrum. His committee oversees the FCC Designated H.R.73, it is known as the AMATEUR RADIO SPECTRUM PROTECTION ACT of 1991.

To ensure passage of H.R.73, it is necessary that you write your Congressman without delay. Ask him to join as a sponsor for the bill. See page 42 of March, 1991, QST for details and sample letters. Put in your own words. April QST, page 62 contains more info. In drafting your letter point out that there are nearly 7000 licensed Amateur Radio operators in San Diego County. He can see votes!

Below is another sample letter, similar to what I wrote to give you additional ideas that the QST sample doesn't. Brevity is important. You might also include your QSL card.

#### SAMPLE LETTER

1234 Main St  
San Diego, CA 92000  
(date)

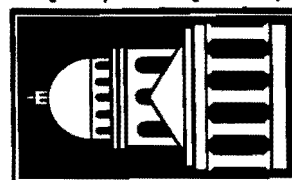
The Honorable (your congressman)  
U.S. House of Representatives  
Washington, D.C. 20515

Dear (Sir) (Congressman):

Congressman Jim Cooper of Tennessee has authored H.R.73, the Amateur Radio Spectrum Protection Act of 1991, to prevent further erosion of frequencies allocated to the Amateur Radio Service.

I urge you to support this bill by becoming a co-sponsor. This bill will benefit nearly 7000 Amateur Radio operators in San Diego County and one-half million nationwide.

As you probably know, Amateur



Radio operators figure heavily in local earthquake plans as backup for government channels and as a substitute for disrupted telephone service, all at no cost to the taxpayer.

Your assistance in this matter will be appreciated.

Sincerely yours,

John K. Doe

Amateur Radio Station W6XYZ

- BK -

FEDERAL COMMUNICATIONS COMMISSION  
June Butler, Public Affairs, FCC SDCO  
4542 Ruffner St, Suite 370  
San Diego, CA 92111-2216  
557-5478 or FTS 895-5 478

April 5, 1991

The FCC conducted a study of amateur radio stations to determine compliance with the Section 97.313(a), 47 CFR 97.313(a), requiring the use of minimum transmitter power. The study also examined the link between operating power and interference to home electronic entertainment equipment (HEEE) such as television and radio receivers.

This nation-wide study took place on February 26 and 27, 1991, during which time the FCC looked at 209 stations. It selected most of these stations on a random basis. The exception was 31 stations chosen because they were subjects of interference complaints. The FCC made observations of the communications conducted at the power usually used by the station, and then made similar observations with the power reduced by one-half or more.

The findings of the study are  
-75% of the stations experience no degradation in communications capability when the power was reduced by more than half.

-Lower power resulted in reduced interference to HEEE in 1/3 of the cases.

-70% of the amateur operators interviewed stated that their stations normally transmit with less than 200 watts of transmitter power.

-Approximately 2/3 of the stations reported to be the source of receiving interference were transmitting with 100 watts or less.

The conclusions of the study are  
-Most amateur stations are not operating at minimum power as required by Section 97.313(a).

-Reduced power can alleviate significant reception interference problems without degradation in communications capabilities.

-In addition to reducing transmitter power, other remedies such as transmitter or receiver filtering may be required to eliminate interference.

For further information, you may contact Jeffrey B. Young, FCC, Field Operations Bureau, Enforcement Division at (202) 632-7014.

- BK -

The FCC has asked Congress to charge hams a \$30 user fee for their 10 year license (\$3/yr).

P O T P O U R R I

An update of our 2m survey of club members now indicates a minimum of 45% of our club members using our 2m repeaters. We are now guessing it could go as high as 60%.

- BK -

HAM CALL LICENSE PLATES: current registration, Application for Amateur Radio Call Letter License Plate (Reg441-rev8/83), FCC License, surrender old plates, pay \$21 +\$1 for reflectorized plate. Comments: no trailers, your name must be on registration, and \$12 fee to transfer Ham plates to another car or must surrender plates.

- BK -- BK -

SCOPE costs are running about 6c/sheet (3c/pg) and mailing about 8c/SCOPE. We would know more exactly if we could read the postal regulations (and understand them) and they would send us a bill each time. We never get a bill - just a request for more money every 4-6 months! What a way to do business. Because of the postal increase, some clubs are increasing their dues

although PARC's financial position should allow us to remain at \$12 for the immediate future. We were a "good deal" before and are even better now.

- BK -

HAM STAMP PINS: Replica of ham postage stamp, \$5.

- BK -

Ed-N6GZI, past president of PARC, did not learn his lesson and is now president of the North Shores ARC in San Diego. Ed advertises in the SCOPE and was my "climbing teacher" on PARC's 80' tower on Palomar Mountain.

- BK -

OVERHEARD on 146.73

Did you hear about the two guys who wanted to "party" and went to Bagdad to get bombed? (the war was so short that it was "over" almost before the jokes could be thought up. ..de W9FQN

- BK -

JOIN THE ARRL: When joining or rejoining the ARRL, do it via the Club which will receive a modest stipend otherwise going to the ARRL. Make your check payable to the Club and get it, with your membership application, to our Treasurer, Benton-KK6LX. NEW ARRL membership applications which include the PARC number (#1703), garner the Club \$5 - and it doesn't cost you a fat farthing more!

- BK -

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: IGNORE it. Don't give the jammer what he or she craves - notice and attention. Carry on your QSO or sign off or move to simplex, but do NOT acknowledge the crazies. At the same time, try to hear the interfering signal on the input of the repeater and, if possible, determine the direction of the source. You can also move "up one"

to 147.130 to complete your contact.

- BK -

EARS T-HUNTS: Contact Jo-KB6NMK for latest information. Hunt freq. is 146.565 at 0900 in Escondido or Rancho Bernardo on the 3rd Saturday of the month. Check 146.880 when near Escondido for more info. If you are just getting started, ride along with an "experienced" T-hunter. Contact Jo-KB6NMK or Carl-N6WLX in Escondido for more information

- BK -

### CONSULTING EXPERTS (found on 146.730)

W6TXK : MiraMesa, Ham Radio Classes  
W6FGE : PtLoma Theory/Code Classes  
KB6MCU: ElCajon, Ham Radio Classes  
W6FMT: Autopatches and 450 Equip.  
W9FQN : Mexican License; Nicads  
WB6IQS: Heathkit; Motorola; Rpters  
N6KI : Swapmeets; Used Equip. \$\$

W6INI : ARRL; ARES; Fire Patrols  
W00DLW: ARES Encinitas->San Marcos  
KC6CZO: ARES Escondido, N&E. of I-15  
N6IZW : Microwave; Test Equipment  
KB6MCU: Interference; Filters; ATV  
FCC, Antennas (HF/VHF/UHF), towers  
KB5MU : Pkt; Satellite; Computers  
KB6NMK: Direction Finding info.  
AA6OM : VE Testing: Tests/Helpers  
KC6PEN: Ham Help NetThur.Eve; Tubes  
KI6RF : Mobile noise filtering  
N6UUW : Radio Controlled Airplanes  
N6RVO : National Traffic System  
ND6W : Test Equipment, Programming  
W6OLQ : Ping Pong; Badges; HP Plot

Check ad sections for professional help on radio repair: N6GZI (antennas), KC6PEN (equipment repair), and HRO. If you would like to have your call added to the list, contact W9FQN with your speciality area.

The FLYING SAMARITANS are looking for eye glasses for their Tecate Eye Clinic each month. If you have any old glasses or can locate a supply of them from friends, please bring them to the next meeting and give them to Nacho-W6HCD or Stan-W9FQN. They are also looking for any kind of doctor, nurse, pharmacist, audiologists, dentists, optomologists, hygienists, Spanish translators, etc. to help at Flying Samaritan Clinics in Testerazo, Tecate, Rancho Rosarito, San Felipe, and others to humorous to mention.

SWAPMEETS: Contact a club member about Saturday swap meets: Santee-1st, Cucamonga-2nd, Chatsworth-3rd, and TRW-1st.

- BK -

- 73 W 9 F Q N -

## EXERCISE

Does Your Heart Good.

 American Heart Association

## Amateur "Hi"



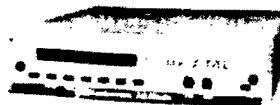
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## 5375 KEARNY VILLA RD., SAN DIEGO

Mail form with \$\$ to PARC, P. O. Box 1603, Vista, CA 92085-0530 or hand to Jo-KB6NMK, at club meetings. Dues (including SCOPE) are \$12 a year plus \$9 for each additional licensed family member. Dues are prorated for NEW members: Aug, Sep, Oct \$12; Nov \$9; Dec \$8, Jan \$7, Feb \$6, Mar \$5, Apr \$4, May \$3, Jun \$2, Jul \$1. Old members (1yr) \$12. Consider paying for two or three years at a time. Call, name, and complete address are required. Telephone number may be un-unlisted in roster if requested. Other information requested below may be omitted if you feel uncomfortable providing it to the club. Complete and cut on dashed line - or COPY.

Call \_\_\_\_\_ Name \_\_\_\_\_  
License \_\_\_\_\_ Home \_\_\_\_\_  
Expires \_\_\_\_\_ Address \_\_\_\_\_  
License \_\_\_\_\_ 1st 5 \_\_\_\_\_ +4 \_\_\_\_\_  
Class \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ - \_\_\_\_\_  
Old Calls \_\_\_\_\_ Home Phone # \_\_\_\_\_ Work Phone # \_\_\_\_\_  
(ie., pg 8, D6)  
Year 1st licensed \_\_\_\_\_ Birth date \_\_\_\_\_ Thomas Brothers location, page # \_\_\_\_\_ coord \_\_\_\_\_  
Names & call of family members in PARC \_\_\_\_\_  
ARRL \_\_\_\_\_ RACES \_\_\_\_\_ ARES \_\_\_\_\_ Red Flag \_\_\_\_\_ Blood donor \_\_\_\_\_ Type \_\_\_\_\_ Comments :  
Interests: \_\_\_\_\_



**\$12**

**\$ \$ \$ \$ \$**

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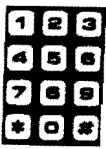
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\* SCOPE,USPS 076530, published monthly by \*  
\* the PALOMAR AMATEUR RADIO CLUB, INC \*  
\* Post Office Box, 1603, Vista, CA 92085. \*  
\* Subscription: \$3.00 per year. \*  
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**W6NWK**

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**SEE INSIDE FOR DETAILS: Amateur Radio Today**

Meeting, Repeaters, Autopatches,  
For Sale, Membership, News, Nets,  
FREQUENCY (FCC), Letters, W6INI  
comments, etc.  
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to read  
when  
open!



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TO:

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Ur last issue if (PRC9105)  
Ph Codes      This issue # -> (PRCyymm)      Expiration  
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xx  
x PARC  
x \*\*\*\*\*  
x  
x  
x \*\*\*\*\*  
x LABEL  
xx

**Zip, zip, zip**



**Are you  
radioACTIVE?**

# Scope

**W6NWG**
**Palomar Amateur Radio Club Inc.**
**POST OFFICE BOX 1603, VISTA, CALIFORNIA 92085-1603**

W6NWG/R => 146.730- & 449.425-  
KA6UAI/R 147.130+(Patch)

145.050(Pkt) (NET/ROM NODE)  
WA6IPD/R 146.175+(Patch)

PARC 446.000(s)  
220 Club SD WD6HFR/R 224.900-

VOL XXVI, NO. 6

JUNE

1991

55 YEARS

June 5th meeting(1st Wed) is at Lincoln Middle School Cafeteria in Vista. 1-5 or 1-15 to Rd.78, Escondido Ave(Sunset) ramp, north on Esc.Ave, after 2nd light between Eucalyptus and E.Vista Way. Talk in .730.

## What you should know:

### H A M C A L E N D A R

Jun 5 Wed - PARC Club Meeting  
Jun 8 Sat - PARC VE Test, AA6DM  
Jun 12 Wed - PARC Executive Mtg.  
Jun 21 Fri - 1pm Start F.Day work  
Jun 22-23 - ARRL FIELD DAY W6NWG  
Jun 16 Sun - Father's Day  
Jun 30 EARLYBIRD DUES for 91-92yr  
Jul 5,6,7 - PARC @ Del Mar Fair  
Aug 18 Sun - PARC Picnic/Drawing  
(Send calendar items to W9FQN)

### C O N T E N T S

Executive Meeting, del Pres. . 2  
Ad-KI6GI, Thanks, Field Day . . 3  
FD Map, Repeaters, Work Parties 4  
Ad-KC6PEN, Patches, For Sale . 5  
Ad-N6GZI, Membership, VE-Tests 6  
Ad-KB6NMK, General News . . . 7  
Tech Info, Vista Press, KE6VEX 8  
Ad-Palomar Engineers, Nets . . 9  
Ad-N6RAO, Potpourri . . . . .10  
Ad-HRO, Ham License Plates . .11  
PARC Application, . . . . . 12

### LAST CLUB MEETING

The May 1st program consisted of Brian-KF6BL talking about his interesting experiences with military radio in Saudi Arabia. They handled 1000's of messages under poor communication and operating conditions. Their extensive use of ladies' panty hose

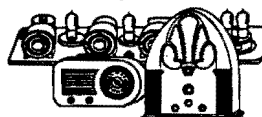
was quite interesting. Dennis-N6KI, our FD whip, talked about our Field Day effort REQUESTING HELP, RIGS, and TRAILERS or MOTORHOMES. Larry-KC6PEN checked member's deviation with the club's deviation meter.

SHOW and TELL was by A1-WA6MYC (3mi north of Mexico) who showed his newly constructed SWR meter and antenna bridge - for those who need a bridge over to their antennas.

Attending were 71 members and 17 guests (total 88) who enjoyed the coffee and goodies. Art-KB6YHZ supervised the coffee and the refreshment table although I did see Larry-KC6PEN (Kieko's OM) doing something at the table. THE GOODIE TABLE NEEDS GOODIES SO WHY NOT BRING SOMETHING FOR NEXT MEETING. Thanks.

### N E X T C L U B M E E T I N G

Our next club meeting will be June 5th at 7:30pm in the Lincoln Middle School on Escondido Avenue in Vista. The program will be by Terry Dubson-W6MKD with slides of his DXpedition to Western Samoa (remember the one to Russia?). This is a meeting you can bring your family to see and we expect another "full house."



SHOW AND TELL will feature: 1) whatever you bring in and 2) Dennis with some Field Day items.

W A N T t o B E a H A M ?  
(or Dial-a-Ham)

If you or a friend are interested in becoming an amateur radio operator or in joining the Palomar Amateur Radio Club, please contact one of the ELMERS listed for more information:

VALLEY CENTER . Stan Rohrer . W9FQN  
(President, Editor(temp) 749-0276)  
VISTA . . Jack Hanthorn . . KI6JM  
(Vice-President, 598-0420)  
BONSALL . . Nash Williams . . W6HCD  
(Secretary, 728-3574)  
CARLSBAD . Benton Caldwell . KK6LX  
(Treasurer, 729-5161)  
ESCONDIDO . . Jo Ashley . . KB6NMK  
(Membership Chairwoman, 741-2560)  
CARDIFF: Duane Stedman:WB6R:753-4821  
CARLSBAD:EleanoreCall:N6QJE:729-0850  
DEL MAR:GerrySanford:KC6BJM:755-5244  
ENCINITAS:DaveCopley:WA6HQM:753-2605  
FALLBROOK:ArRideout:WA6IPD:728-6834  
La MESA: Roger Jaffe: N6UW:697-6025  
LAKE SIDE:Mac McBride:WB6GXR:561-2211  
LEUCADIA: Bud Lincoln:K66VX:436-9983  
LinVistaPaulWilliamsonKB5MU:571-8585  
MIRA MESA: Ron Earl: W6TXK:566-1959  
OCEANSIDE:LarryGugle:KC6PEN:439-4109  
OCEANSIDE: Lloyd Hunt:W6TFB:757-9374



PAUMA-PALA:Mark Ross:KC6CZO:742-1539  
PointLom:MickMcDaniel:W6FGE:222-3912  
POWAY:MarkSchlesinger:N6NNI:748-8391  
RAMONA:Vernon Leming:AA6UU:789-3070  
RanchoPen:John Tentor:W6OLQ:672-3891  
RanchoS.Fe:RonWilhelmy:W16B:756-3133  
S.D.:Dennis Vernacchia:N6KI:271-6079  
SanMARCOS:FloydHarvey:W6JSP:741-8391  
SanMARCOS:RustyMassie:AA6OM:747-5872  
SolanaBe:LouBroadbent:N6CKQ:755-9179

MIRA MESA: Ron-W6TXK sometimes conducts classes so contact him for the latest information on the starting of his new classes, 566-1959.

POINT LOMA NOVICE INSTRUCTION and TESTING: contact Mick McDaniel, W6FGE and friends, 222-3912.

EL CAJON: covered by the El Cajon Club with Bill Smith-KB6MCU as the instructor (582-2313).

Escondido ARS sometimes conducts classes. Contact KB6NMK, 741-2560.

PARC has some code tapes available if beginners find some of the "starter" packages a little too expensive, but you will need a current test booklet. We also have IBM compatible disks of a great code program available at club meetings. If you have a good code program, please make up a disk with it and several other programs for us to get new hams started. The club will exchange disks with you. We need programs for Apple and C-64's. We presently have programs for IBM and Radio Shack Mod III & IV.

One of our members from Fallbrook, Ray-KK6CA, has consented to make up special code tapes for those wanting special types of code practice material. Please bring in your blank cassettes and be prepared to tell Ray what type of practice you want.

#### ##### EXECUTIVE MEETING

The Executive Committee, consisting of the officers of the Club and the Chairmen of its committees, meets at 7:30 p.m. on 2nd Thursday after the club meeting at the home of various of its members. You are

welcome to attend these meetings. Contact any executive member for additional information on executive committee meetings.

5-9-91 DISCUSSED: W6INI 1tr; programs; club finances; rpt update; autopatch improvements by WB6FMT; answering machines; FILMARS 220 rpt request to be in bunker (still gathering info); selling & trading club HF beams; letter to ARRL requesting help on regulations problem; new repeater in bunker; control circuits for new battery bank; possibility of new building (again); work parties; Field Day \$\$ needs; and other things to humerous to mention.

A request by FILAMARS (FILipino American Radio Society) for rental space in the bunker for their 224.26MHz repeater was put on hold for the following reasons: 1)heat build up in PARC bunker during the summer with all of our present repeaters is excessive, 2)we have limited space and we were not completely assured that their space requirements were completely assessed, 3)there was no indication of their control equipment, 4)it was felt that they would have to add at least four additional cavities to their system and the 220 Club of S.D. repeater, 5)the 220 Club of S.D. repeater on 224.9(-) sees little use at present and FILAMARS was invited to make use of it, 6)there needs to be a computer intermod study done by W9FQN on all frequencies at the site, and 7)there was some question as to how "open" their group was to the general amateur community. Discussions are still being conducted with FILAMARS and a recent discussion (5-12) has cleared up some of the questions being asked. In the past there has been a request for a 223.4MHz & a 10m digipeater ports to 145.05 which has also been placed on hold.

APPROVED: FD \$200; 450 SS beam \$70; Rope order for FD and members \$195;

Repair of shed \$100; WB6FMT to head up new autopatch system (4); purchase of 12 VHF transceivers (11 new) & microphones \$590.

IN ATTENDANCE: (officers) Stan-W9FQN, Jack-KI6JM, Nash-W6HCD, and Benton-KK6LX; John-WB6IQS (Technical). The May meeting was at Stan-W9FQN's QTH and we all enjoyed the water and apple cobbler made by Barbara-KA6FPS (in her spare time). The June 12th meeting will be at W9FQN(#2), Valley Center.

#####  
del P R E S I D E N T E #7  
(after #7 comes #6!)  
(and temporary editor)

We will again need members to staff the SANDARC amateur radio display booth at the Del Mar Fair on July 5th, 6th, and 7th (Fri-Sat-Sun). We need three shifts of two amateurs per shift (6/da) to operate equipment and to answer questions about amateur radio. I made a suggestion that SANDARC give out code certificates to all who c send their complete name by Morse code - the sound and action should help get more of the youngsters to stop in to see us. We will also take messages for the evening traffic net. If you can help and would like to team up with someone you know, please contact Barbara-KA6FPS (749-0276) to pick your time spot, 10-2, 2-6, & 6-10 each day. If you have children or "grand" kids, take them to the Fair and you can sit down and Ham it up at the SANDARC booth. Remember, YOU get a free ticket and a good place to sit down which should make the Fair more enjoyable for you and not so rough on the old pocket book.

- BK -

My appoligies to Phil-WF6L and the Potter Jr. High School for their "missing" artical (see this issue) and to Eleanore-N6QJE for her re-write of CAMEO. Both items were typed into the computer - and for Unknown to me, my #1 disk drive

my old TRS-80 Mod IV was operating intermittantly (now is dead) and I was not aware that some items were eing saved and others were being dumped into that giant "bit bucket" in the sky. I also had two files named POT: Potter Jr. HS and Potpourri with disastrous results.

And then our answering machine tape "got dumped" accidentally about 2am one morning in May and we know that it had at least three of the seven calls from amateurs, according to KA6FPS ...sorry, we don't know who you are ...so thats why I never returned your call(s). If at first you don't succeed, try, try, again - please.

- BK -

Because of Field Day, I will not be bringing guy rope to the club meetings until July.

73, Stan W9FQN

#### RE M I N D E R

If your mailing label indicates PRC9106, then this is your LAST issue of the SCOPE and it is time to renew your membership immediately.

#### NEWSLETTER HELPERS

- May 1991 SCOPE -

Members, Ads, Label, JoAshley .. KB6NMK  
Membership Data, Bill Whipple N6COU  
Billing Ad, etc, John Tentor . W6OLQ  
Folding/Staples, Jack Hanthorn KI6JM

also provided QTH & refresments  
Folding/Staples, Lloyd Hunt .. W6TFB  
Stapler\* . . . Eleanore Call N6QJE  
Sorting . . . Benton Caldwell KK6LX  
Printing/Forms, Stan Rohrer . W9FQN

Printed 470 Mailed 446

Without these people life would certainly be difficult. THANKS!!

\*One staple/SCOPE Eleanore! Sometimes she gets carried away with our new automatic electronic stapler.

Bill-N6COU had an operation in April but still did the roster & labels.

\*\*\*\*\*

RECOGNITION of ->

(thanks)

Jack-KI6JM for writing an artical for the VISTA PRESS, April 28th, and for updating their organization

listing which listed Paul Dorsey as president and his telephone number ...that was about 10 years ago!

- BK -

Tony Helbling-KA6TNI in Oceanside for the donation of a 21 foot, 16 element, 2-meter Hy-Gain beam which the club can put to good use at Field Day.

- BK -

Gary-KC6BJM, Ellen-N6UWW, and Bob-WA6QQQ for their communications effort in the Encinitas Flower Festival bike race. I also heard non-members: WA2NNT, N6WWV, N6ELP, and N6WWC.

- BK -

Eleanore-N6QJE for information on the stealing of avocados in North County - we have probably "lost" about 6 dual-band HTs worth over the past two years.

- BK -

Thursday evening HAM HELP NET.

- BK -

Felix-N6IE for the donation of a kit for A PORTABLE QRP 20m CW TRANSCEIVER, December 1990, QST, page 45. This is a neat little rig. Anyone interested in building it for the club ...and using it for a while to see if it really works? Contact W9FQN if you are interested.

- BK -

Charles Fulcher-KE6SE for the donation of a 6-element triband beam which will be put to use in one of the club's projects - or traded for another beam that we need.

>#####<  
> F I E L D D A Y 1 9 9 1 <  
June 22nd and 23rd

Field Day is a chance for us to demonstrated to others and to ourselves that we can function under emergency conditions. All club members can participate in some way. We need loggers, antenna helpers, go-fers, and operators. NEW AMATEURS should especially plan on participating even if it is only in some small way so that you get a picture of emergency amateur radio in action. Bring your family - and friends. You will see one of the best planned and executed club emergency stations in the USA in action.

We especially need amateurs who are working on their code speed and are getting close to 13wpm for the Novice-Tech station so that we can use this station throughout the evening hours on CW. The Novice-Tech station can also use operators for 10m SSB during the day. Bring a friend and help the club get some "free" contacts.

The club can use loggers (computer operators) in almost all positions so contact Bud-KB6VX or Dennis-N6KI for assignments. You might not get to operate the first year but you would be paired up with a good operator and you could learn how it is done ..then next year you could be an operator.

FARMERS INSURANCE GROUP  
OF COMPANIES  
Agent

TIM HOY -KI6TG-



AUTO FIRE  
LIFE COMMERCIAL

619-466-9770  
8911 La Mesa Blvd., Suite 103  
La Mesa, CA 92041

Carl-N6NZX sent me some pictures of the damage at the repeater site which has helped us plan on what needs to be taken to the site.

- BK -

Tim-WA1ZEN for sending me the latest copy of the ARRL numbered messages.

- BK -

Joe-N6YMD for consenting to help Larry-KC6PEN, net manger, with the

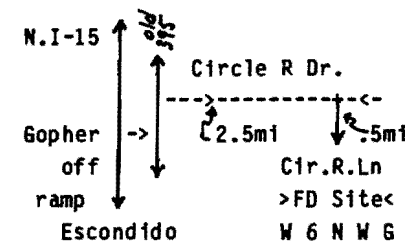


Our free-standing crank-up towers are mounted on well casing and just sit on top of the ground with weights and guys holding them in place. They can be carried on a pickup truck easily. Our beams are full size mono-banders and they are large. Our Field Day antennas are probably better than 99% of all home stations so come out and see what amateur stations can look like.

One of our "new" towers has two bad spots that need welding. If anyone has a portable welder, we need to get this repaired before FD. The tower can be brought near an AC outlet. Please contact W9FQN 749-0276.

Dennis-N6KI indicates that Paul-KB5MU will be at the site with a portable satellite station making contacts for us. If you have never seen satellites being worked, this is a good chance for you to see what is needed for contacts.

Field Day will again be in Valley Center: north of Escondido on I-15 11mi, Gopher Canyon off ramp east, North 100 yards old 395, east 2.5mi Circle R Drive, right (south) Circle R Lane, ...and you can't miss us! Talk-in 146.730. Remember, you get a participation ticket for the drawing if you SHOW UP ...and sign-in.



AMIGOS, SEE YOU AT FIELD DAY.  
Bud-K6GVX, Dennis-N6KI and the gang.

\*\*\*\*\*  
R E P E A T E R S, etc.

TECHNICAL: John Kuivinen.....WB6IQS  
- - TRUSTEES - -

W6NWG/R: Ron Wilhelmy ...WI6B->  
145.05(s)pkt 146.730(-) 449.425(-)  
KA6UAI/R: Erik Thompson, 147.130(+)  
WA6IPD/R: Art Rideout, 146.175(+)  
WD6HFR/R: Ron Berger-NE6T,224.900(-)  
(All CTCSS(PL) tones are 107.2Hz)

Remember that when you put the "PL" on Erik's 147.13 repeater -or take it off- that you need to give your call letters. Otherwise, it is an unidentified transmission and contrary to FCC rules. Also someone(s) is using TT coded squelch without their call letters and at present the person can't be contacted because they are operating TT coded squelch too. It won't be long before we have their "number(s)" and calls. If this continues without call letters, we will mute the repeaters so that NO tones will pass through them which will solve the problem. We suspect a non-club member who won't be reading this.

- BK -

WORKPARTY (05-05-91): John-WB6IQS installed a PL of 107.2Hz on the output of the 449.425(-) repeater like we have on the 146.730(-), 146.175(+), and 147.130(+) repeaters so those of you with the new rigs can use your PL Decoded Squelch to eliminate audio from other repeaters. TASMA should require ALL repeaters to have encode-decode INSTALLED with encode ALWAYS activated and decode activated ONLY when required by TASMA or when interference is observed by the control operators. We are 100% encoded and you will never again have to listen to the trash on the frequency, if you have a decoder in your transceiver. John also worked on the emergency power supply for the 450 repeater and located the trouble.

Stan-W9FQN fiberglassed the cracked battery. John, Stan, Fabian-AF4V, and Bob-WA6QQQ, lifted it into its plywood support base. It is now on charge and not leaking. We hope to move it up into the battery rack within the next two weeks after the fiber glass sets up. Stan also did a partial repair on the autopatch antenna and put up a 2m/450MHz diamond antenna which will need to be connected up to coax. A 2nd black box was installed in the repeater building. John brought up

the new charger for the 2x1680 AHR battery banks and will bring up the controlling electronics when it is finished.

The 220 Club of San Diego took down their 220 mast and repaired the damage to their control antenna which was hanging by its coax: Bob-WA6QQQ, Steve-K6PD, Darrell-WA6ZMQ, and Fabian-AF4V. They were helped by Stan and John as needed.

This was one of the worst winters we have had at the site with two damaged antennas (one ours, one 220 Club), two corner reflectors rotated 90 degrees, and damage to the battery shed roof due to four feet of wet snow. One pine tree crashed to the ground and two others had big sections broken out of them. Several other trees lost big branches but none were near the tower or building. We are glad our last tree trimming party removed possible problems.

Our neighbors to the back-right were using part of our property to enter their property and we are piling logs, telephone poles, and limbs along that property line to re-establish our ownership of the back edge of the property. We even cut a new path for them to use which they appear to be using.

- BK -

WORKPARTY (05-12-91): Jim-KC6PAS/kt, Steve-N6UIA, and Stan-W9FQN arrived early and installed the repaired 1680AHR battery into its final resting place in the new battery rack. The cells were then connected into batteries and charged at 1.2A trickle charge. Battery "A" consists of seven 2.2volt cells (15.4v) at 1680AHR and battery "B" has the same rating. Mike-KC6KCQ and friend showed up on time and received a "tour" of the facility. Repair materials for the roof of the battery shed were delivered but not used. Steve, our expert woodsman, cut up most of the tree sections that were broken out of the trees this past winter when 4 feet of wet snow fell destroying several lar



# FREE ADS FOR MEMBERS

trees and branches -besides damaging two of our antennas.

On the way back down the mountain calculated that from the top of Palomar Mountain to the bottom one averages a drop in altitude of about 410 feet (408') per mile or 41 feet per 0.1 mile which means you can calculate your altitude from your odometer reading if you set it to zero at the 3,000 or 5,000 foot level. The grade is about 7.7%. What idle minds won't think of next.

- BK -

REPEATER RULE #7: The tool or coax connector you need at the repeater site is always on the work bench at home - an 80+ mile round trip!

How true, how true! One of the groups at this last work day forgot a coax connector and ended up trading a whole bag of connectors for an adapter that John happened to have in his extensive collection. John has had a lot of experience making trips to the mountain and when he comes up to the mountain to work, the back end of this truck is loaded with boxes of all sorts of things that he just might possibly need to fix that unexpected problem.

- BK -

Our repeaters in the PARC bunker on Palomar Mt. at 5,600' cover 2,000 sq.mi. of SD.Co. and 100+ miles out to sea. It is club policy that these repeaters are open repeaters FOR CLUB MEMBERS AND OCCASIONAL TRANSIENT USERS with the AUTO PATCHES being ONLY for club members. Be FRIENDLY to those that you talk to, and INVITE them to support the club with their membership. You can check their membership in PARC by asking them if they have seen something in the most recent SCOPE.

AUTO PATCHES on 147.130  
KA6UAI/R: Erik Thompson..#1..KA6UAI  
ENCINITAS + surrounding towns  
KA6UAI/R: Jerry Houser...#2..WB6FMT  
VISTA + the surrounding towns  
KA6UAI/R: Dennis Vernacchia #3 N6KI  
SAN DIEGO (activated Spring? '91)

AUTO PATCH on 146.175  
WA6IPD/R: Art Rideout #4 WA6IPD  
FALLBROOK + surrounding towns

On the KA6UAI patch in Encinitas we have noticed that it does not like to have digits druuug ouuuut. For example: 430 threeeee threeeee threeeee zeroooo fails to get through while 4.3.0 .3 .3 .3 .3 .0 meets with more success. It appears as though the system has troubles telling whether a threeee is one three or two of them when drug out. If you have problems, you might try sending the numbers as if they were "dits" rather than "dahs" on your TT pad. Another problem is that some people are trying to dial from Encinitas a number that should have been dialed from Vista and of course, they will get a reject from Encinitas. You need to know the areas covered by the Encinitas and Vista autopatches.

- BK -

Several club members have given autopatch codes to their friends. These numbers will be locked out soon which will also lock out the number for the club member. Club members receive the SCOPE and are able to read the latest information on the patches while non-club members are not aware of club policy on the autopatches as published in the SCOPE.

\*\*\*\*\*

F O R S A I L



(5-17)Ultimate transmatch, Murch Mod UT-2000A 80-10m 2kw ant tuner exc cond \$100: Dennis-N6KI-271-6079-SD

- BK -

(5-17)Westcom 2m 90w amp \$70; Ten-Tec mod 238 2kw ant tuner \$275; B&K mod 1400 scope calibrator \$90 and - New ARRL books: Handbook \$22.95; Now You're Talking \$17.95; Repeater Directory \$5.75; Callbooks N.American \$24.50 & International \$24.50 w supplement \$9.95 ppd & + 6.5% tax: Duane-AA6EE-16832-Whirlwind-Ramona-CA-92065-789-3674-Ramona.

- BK -

(5-4)50' Rohn TOWER 56H (non-tubular) ??? (Past Pres) Ed-N6GZI-297-7758-S.D.

- BK -

(5-2)Kenwood TS940S mint xcvr \$1350; ICOM211 2m all mode xcvr #350; RF Labs V76 6m solid state amp 8-15in 100-120w out \$250; MFJ-989B 3kw ant tuner new \$250; Hustler 54" fiber glass mast \$15; Hustler RM-40 ant \$12; bumper mount-ball spring \$30; Johnson LP Filter Mod 250-20 1kw \$15; Cushcraft Ringo Ranger 6m \$30; Astro PS-RS4A new \$35; B&W coax sw 594 \$20; Autec ARM-QF1A-AM-CW-SSB filter \$40; Hy-Gain Ham IV rotor new cond \$250; B&W coax sw 5 pos mod 550A \$20; JW Miller coax sw 2 pos mod KS-002 \$15: R.F. Krist-W6KTE-941-3555-Vista.

- BK -

LARRY E. GUGLE

-KC6PEN-

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PARC member

25 years communications equipment maintenance experience for the USMC. Specializing in HF & VHF Transceiver & RF power amplifier repairs by appointment.

(4-22)Corsaire II Ten Tech xcvr 80-10m 100w 4yrs old, \$\$\$; and other HOT items: Felix-N6IE-277-8587-SD

- BK -

(4-18)HEATHKITS SB-221 HFamp 1KWcw 2KWssb w/manual \$225; IG-102 RF SigGen 100KHz-220MHz 2/man \$35; EICO 232 VTVM 2/man \$35; CHUSHCRAFT 10-3CD 3el 10m beam w/man \$65; ASTATIC D-104 mic w/stand and amp inop. \$25; Eric-XE2/KB6EP0-82-02-83-Tijuana, WANTED-TRADE for R-5 vertical ant.

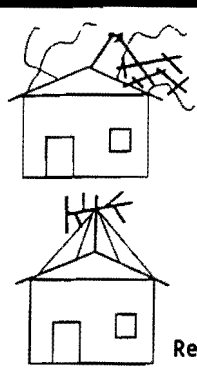
- BK -

(3-17)1w AM BC xmtr can be converted to 160-40m, schematic, case, meters, mic, used as PA system in hotel, \$50: Ray-W6BHF-487-4423-poway.

- BK -

(3-15)54'Tri-X "motor up" heavy duty TOWER: Jack-WOODLW-728-0258-Fallbrook.

- BK -



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, Interference Resolution Edward Ross

542-1405  
**Antenna** N6GZI  
**Specialties**

(2-15)Nicholas Andree of HIWAY COMPANY, intersection of Wisconsin and Hill streets in Oceanside is back in business and wants to sell off all of his electronic goodies as soon as possible. No reasonable offer will be refused. Nick indicates he will also donate 10% to PARC from items sold to amateurs. Here is your opportunity to really get some good "deals" and help the club too. It would be good to give Nick a call at his home first, 967-7225, to make sure he will be at the store. Nick has been giving PARC some great deals.

- BK -

(1-2)TEN TEC ARGOSY 5-50 watt xcvr with mike, pwr supply, manual: Reasonable Ron-WI6B-756-3133-R.SF.

- BK -

#### RE M I N D E R

If your mailing label indicates PRC9106, then this is your LAST

issue of the SCOPE and it is time to renew your membership immediately.

W A N T E D

**NEW**

Old tape answering machine to be used in a PARC information service for new hams and prospective amateurs: PARC-W6NWG-749-0276

- BK -

A PARC member who can send COMPUTER CODE Wednesday evenings over 146.730 as a back-up to W9FQN and N6NZX. IBM's and C-64's work fine for this. We would also consider your being able to just play a recorded TAPE which we can furnish to you: Stan-W9FQN-749-0276

- BK -

(5-17)Kenwood TS-520/820 xcvr; 200w ant tuner; digital voltmeter: Duane-AA6EE-789-3674-eve-Ramona

#### D O N A T I O N S

If you don't know what to do with it, donate it to the club. Donated items are sometimes used in club projects or are taken to a swap meet for sale with the resulting \$'s going into the club Equipment Fund which pays for equipment used at the repeater site or for Field Day.

#### MEMBERSHIP INFO

PLEASE CONSIDER RENEWING SOON EVEN THOUGH MOST MEMBERSHIPS DON'T RUN OUT UNTIL JULY. Jo-KB6NMK (membership chairwoman) and Bill-N6COU (giant computer operator) have to do a lot of work to keep their records updated and it really helps to receive your membership dues EARLY so that they don't get SNOWED IN during the middle of July with 400+ renewals. You can also help by joining for 2-3 years (please pay by check) which reduces their work load by 50-70%. At 100 seconds per member, Jo and Bill will EACH have to put in over 10 hours processing club records. They get paid about as much as I do so take pity on them! de W9FQN

NEW: David Knab, W6MVC, San Diego; Mike Hoggatt, KC6TYX, Escondido; John Bescher, N6SMW, Rancho Santa Fe; Emil Guilas, N6ZH" Chula Vista; Fred Sinn, WB6RB, Carlsbad; Scott Balderrama, KC6TSR, Escondido; John Koenig, W6WFF, San Diego; Rod Dinkins, AC6V, Oceanside.

RENEW: James O'Berry-WT7W; Mat McCormick-KA6QQF; Bill-KE6BH (3yrs); Sam-WB4YQU (2yrs); John-N6URW (2yrs); Charles-K6ERW; Chuck-W6IRM; Loreen-N6RA0; Ron-WI6B; Benton-KK6LX; Gene-K6PP; Hagar-WA6QWU; Paul-KA6PPD; Floyd-W6THU.

NEW ASSOCIATE: Darren Crouse, Escondido; David Pressman, Del Mar (14yr old); Ralph Powell, San Marcos.

CHANGED: Associates Gary Steinberg to KC6TYU, Art Steinberg to KC6TYZ, Greg Rosler to N7RDJ and James Pratt Jr. to N6NHY (2yrs).

MOVED: Howard Gates-W4NYU to Las Vegas.

James-N8NHY goes to Japan 27th April, hope Ralph Powell gets a gud call and tnx fer the note, Rod-AC6V working on new house and enjoys QSO's with club members on repeaters, John-W6WFF wrks fer SDG&E in Telecom, & thanks to all those making comments on their application blanks.

A special thanks for those renewing for 2yrs: N6URW, N8NHY, & WB4YQU. And to KE6BH for renewing for 3yrs. This really helps our overworked and poorly paid membership people and saves them lots of time (2-3 years worth).

#### PARC V E T E S T I N G

FCC LICENSE EXAMS in N.County are conducted by the PARC VE Team at the Joslyn Sr.Ctr, (behind City Hall) 111 Richmar Ave, San Marcos on the 2nd Sat. of the month at 1000 Hrs. Walk-ins are not encouraged.

#### APRIL 13th

NOVICE->TECH: Pat Christensen-pending, Ron Henderson-KC6OWG, Jef Withers-pending.

GENERAL->ADVANCED: Pete Gallagher-

KC6SCE.

OTHERS: Harry Austin-e1 2, Dawn Dore-e1 2, James Pratt Jr-e1 3B.

VE TEAM: Sam Burdette-W6YYV, Paul Williamson-KB6MU, Mark Moskowitz-AA6TR, Bob Chantrill-KE6VX, Bob Rice-KS6S, David Dutcher-AA6KY, Jack Hanthorn-KI6JM, & Rusty Massie-AA6OM.



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MAY 11th

NOVICE->TECH: Christopher Allen, Sherry Hiltz, James Kirkes, & Mary Shettel-Neuber.

TECH->GENERAL: Janet Hafner, Robert Jones, & William Steinwedell.

GENERAL->ADVANCED: Jeffrey Withers.

OTHER: John Jacobs-e1 1B.

VE TEAM: LLOYD Hunt-W6TFB, David Dutcher-AA6KY, Duane Steadman-WB6R, Bob Chantrill-KE6VX, Jack Newlove-AA6UQ, Bob Rice-KS6S, Jack Hanthorn-KI6JM, & Rusty Massie-AA6OM.

Other SANDARC-VEC exams: 1st Sat. El Cajon, 3rd Normal Heights, 4th Chula Vista, & last Escondido ARS.

Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTO-COPIES) and copies of license(s) and certificate(s) of successful completion, if any, to SANDARC-VEC. PO Box 2446, La Mesa,

CA 92044 10 days B4 the test date. Bring ORIGINALS of licenses & certificates. Questions: call SANDARC 465-EXAM.

The advent of the no code technician class, as well as greater numbers of other candidates, has prompted SANDARC to suggest that we recruit Advanced and Extra Class Volunteer Examineers. If you could donate two to four Saturday mornings per year to help test at the San Marcos test site, please contact me at the numbers below.

The requirements are only that you hold one of the above class licenses, don't have a conflict of interest such as working for a Ham equipment manufacturer, and have never had your license revoked.

There has also been some interest recently in forming a test group to test on Tuesday or Wednesday nights, probably in Poway. This may be a monthly or bi-monthly test session. If you would like to participate in this session, let me know.

de A A 6 O M, Rusty Masse  
747-5872, 1249 Nordahl Rd, Esc92026

#### \*\*\*\*\* GENERAL NEWS

POTTER JUNIOR HIGH SCHOOL: Phil Leonelli-WF6L's JR High ARC in Fallbrook made contact with astronaut Ken Cameron-KB5AWP aboard the space ship Atlantis. Ken reported seeing good amateur TV from Los Angeles and also made contact with Phil's amateur radio class through Art's WA6IPD/R repeater (146.175) in Fallbrook for over 15 minutes. Phil's class asked Ken about space walking and the tools he was using during his space walk. Phil indicates that the NO CODE license really does not affect many of his students since most of them are interested in operating SSB on 10m and need the code for their license. WA6IPD/R was the first repeater on the West Coast to be used for space communications with the first contact on April 6, 1991.

SAREX (Shuttle Amateur Radio Experiment), helped by ARRL, tried amateur television and packet contacts but had trouble with uplinking although several SSTV downlinks were successful. SAREX encourages and helps astronauts obtain their amateur radio licenses.

- BK -

Bob Findlay-W6NZX, formerly on retainer by the club for working on our repeaters, called me long distance from Salt Lake City asking for Ralph and Pat's address in SLC. Can't understand why he can't find Ralph. Everyone knows Ralph! ..and Pat is the one in the wheelchair ..at least she was the last time we heard from them. Ralph, executive meetings are not the same without you and I need to get rid of being assistant editor before my Radio Shack Mod IV's all give up ...de W9FQN

- BK -

Sorry to hear that Mark Salzarulo-WA6DOC and Bill Whipple are not feeling very well. Also understand that Phil-KC6OEI was in the hospital. We wish them all a speedy recovery.

- BK -

Received a nice letter from Battalion Chief West, City Disaster Preparedness Officer for the City of Carlsbad thanking club members for their participation in the Carlsbad Unified School District Drill last month. He thought the connotation of "AMATEUR" radio was misleading - he thought we were "...highly competent, skilled and dedicated PROFESSIONALS."

- BK -

Our family (W9FQN-KA6FPS-N6QDB-N6YZZ) will again have a foreign student from Spain staying with us starting May 28th. She will be from Basque country like the boy we had last year. We try to give them as many experiences as possible during their stay here in the USA and if any of you have any suggestions or have something planned that she possibly might be interested in, please let us know about it and we

will see what can be worked out. She (Susana, not to be confused with our Susan-M6QDB) seems to be interested in all sports: tennis, bicycling, soccer, horses, camping, hiking, etc. So if your family is planning something interesting and could take along a guest, please contact us sometime soon. de W9FQN and family, 749-0276

- BK -

Karl Pagel-N6BVU (TASMA fame) writes that "effective 1-1-91, an amendment and addition to the California Penal Code makes it illegal to 'maliciously' receive transmissions from cordless telephones. This is from the California Peace Officers' Association 1991 Legislative Update Handbook." You need the consent of both parties in the conversation.

- BK -

TO ALL TECH LICENSEES: As of 14 February 1991 all Tech licenses issued by the FCC (including renewals) will be presumed to be NO-CODE licenses carrying operating privileges only above 30 MHz. However, it should be understood that FCC records will show which Technician class licensees have passed the code test. It would be prudent for Tech class operators operating on HF (amateur frequencies below 30 MHz) using Novice privileges to be prepared to show proof that they have passed a code test of 5 WPM or higher. This proof may consist of a previously held Novice license, or a Technician license dated before 14 February 1991, or of a CSCE (Certificate of Successful Completion of Examination) issued by a VEC sponsored VE team. These proofs should be retained as long as you keep the Technician license and continue to operate below 30 MHz.

Novice test procedures for new licensees remain unchanged - the code and the written tests may still be administered by two qualified amateurs. A Technician class licensee with a NO-CODE license may obtain the Novice level HF

privileges by taking and passing a code test from a VE team under VEC sponsorship. He/she will be issued a CSCE for that test but will not receive a new or modified Technician license as a result.

An additional reminder for Technicians wishing to upgrade to General class or higher. Technician class licensees who achieved that level prior to 21 March 1987 get credit for Element 3B (General class written test) by showing proof of that fact. CSCE's for 13 or 20 WPM will be honored for upgrade only for one year even though they will be accepted indefinitely for NO-CODE Technician licensees using Novice operating privileges. de Harley Gabrielson, K6DS, Chairman, SANDARC-VEC Committee.

- BK -

Please note that the club's zip code is now 92085-1603. They changed us from the old Zip of 92083-0530. All box addresses now have a new Zip plus the box number is now part of the Zip. Guess that means you could just write 92085-1603 ONLY on the letter and it would get to us. Several years ago a family friend in Florida wrote a letter to my parents addressed WITH ONLY MY PARENTS 60th WEDDING PICTURE pasted on the front of the envelope and 46573 written below the picture. They did receive the letter in Wakarusa, Indiana! HA, try that in California these days.

- BK -

Larry-WQ6V put us wise to the Vista Press running an article on VOLUNTEER HELPERS in their Sunday paper. VP Jim-KI6JM wrote up an article on Bob Chantrill-KE6VX which ran in the 4-28 Sunday paper. It was good publicity for the club and amateur radio. Please, if you run across anything like this, let us know so we can take advantage of it. The article follows:

The Palomar Amateur Radio Club submits the name of Robert Chantrill as a special volunteer.

Bob has been the volunteer station manager of the Vista section of the Radio Amateur

Civil Emergency Service (R.A.C.E.S.) for the past four years, recruiting and training amateur radio operators to serve as supplementary communications sources in time of emergency. R.A.C.E.S. is a member of the Emergency Service Division of the San Diego County Sheriff's Department.

Perhaps of more immediate interest is the work that Bob has done since last October in handling radio messages from our service personnel overseas. These messages arrive by way of the Navy Military Affiliate Radio Service (Navy MARS) from such places as Japan, Okinawa, the Philippines, ships at sea, and from the Persian Gulf.

From Navy MARS, the appropriate messages are passed to the San Diego County Traffic Net, run by the Palomar Amateur Radio Club through our repeater station high on Mount Palomar. Amateur radio operators who participate in the net receive the messages and either deliver them locally to the families of the servicemen or pass them on to another net for delivery in other areas. Bob has done both.

Since October, he has personally handled more than 200 messages from servicemen, delivering some and passing the others to another net to the north for delivery in the general area of Orange County, San Bernardino County, Los Angeles, and as far up as Santa Barbara. Over half of these messages from servicemen overseas were from the Persian Gulf area.

- BK -

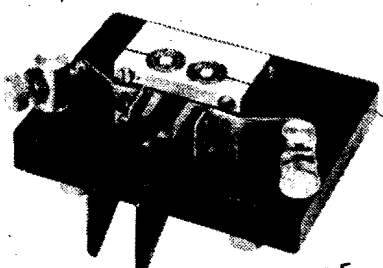
de Betty KB6DGR to W9FQN and PARC: 4-26-91, everything great ..galavanting and learning where everything is all over again ..boy, has it changed ..after only 12 years ..applied for call sign plates ..after 2 tries I now have a Minn. license (drivers?) ..bugs just coming out ..packet not as much fun here ..too busy ..guess I will have to make some changes.

..and from a 4-8-91 6-page letter

to "Sir Henry" which was brought to the May club meeting, she wrote:  
 ..antennas all up ..doing 10m packet  
 ..planted 2 blue and 2 purple Lilacs  
 ..still trying to find out where to  
 unload the contents of my boxes ..73  
 & 88's Betty.

- BK -

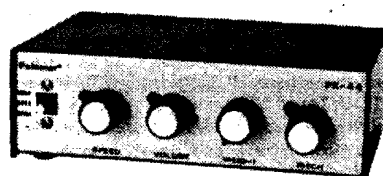
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## PALOMAR ENGINEERS

Box 455, Escondido, CA 92033  
 Phone: (619) 747-3343

A1-WA6MYC made several telephone calls from Chula Vista to the New Port Beach area for one of the Newport Beach-Ensenada sailboat

racers.

- BK -

A Field Day planning session was held at W9FQN's QTH 4-26. Attending were Karl-N6WLX, Duane-WB6R, Art-K6XT, Orlando-N6QVW, Dennis-N6KI, Ken-KA5Q, Barbara-KA6FPS, David-AA6KY, Randy-WB6KYG, and Joyce-KC6TLW (observer). It appears that our stations will be (N6KI-20m SSB), (KZ6X-15-40m SSB), (K6XT-80-20-10m CW), (N6UZH-10m Novice-Tech), (W6YA-15-40m CW), (N6WLX-10-75m SSB), and (WB6KYG-VHF-UHF-Pkt) filling in as needed. We wish them the best of luck towards their 6,000 contacts!

- BK -

Nice letter de Charles-N6TEP who copied the Wed. Eve. code practice with his computer ..it did great on 13 & 20wpm with some problems at 5wpm & 40wpm. Errors at 40wpm could have been due to the tape recorder. I wonder if the computer could get a license?

#####

## N E T S

N E T S O N 146.730(-)

In general, repeater time is structured as follows:

Mobiles	Traffic	Special	Open
Hours	Nets	Interest	rest
6-8a,4-6p	2000Hrs	2100Hrs	of time

The SAN DIEGO COUNTY TRAFFIC NET(SDCTN) meets each evening at 2000 hours to pass messages within and out of the county. Please check into the net or listen for traffic in your area. Net managers are Joe-N6RVO, Chuck-N6TJT, and Rich-KI6ZH. Net controls are (M->S): Dave-WA6HQM, Joe-N6RVO, Tim-WA1ZEN, Warren-W6EYP, Chuck-N6TJT, Carl-N6NZX, Charles-N6TEP. SCNV liaisons are: Joe-N6RVO, Bob-KE6VX, and Rich-KI6ZH.

The Sunday NORTH COUNTY PALOMAR AMATEUR RADIO CLUB EMERGENCY SERVICE net meets each Sunday morning at 8:30am to disseminate ARES and emergency preparedness information to amateurs in North County and other interested amateurs throughout the county. Net manager is Stan-W9FQN.

Other net controls are: Jo-KB6NMK, Carl-N6NZX, Mary-KB6NZA, Floyd-W6JSP, Nash-W6HCD, James-N6WTE, Elenore-N6QJE, Steve-N6UIA, Frank-WB6HFE, Norm-N6QQF, Larry-WA6UTQ, Marylee-N6WEG & Frank-N6WEF.

The Sunday morning SAILBOATERS SESSION net (SSS) meets each week at 10:00 am to allow sailboaters to talk about things of interest in Sailing. Also check 1000 Saturday mornings. Informal net controls are: Mark-AA6TR and Larry-W6QCA.

The Sunday evening AMATEUR RADIO EMERGENCY SERVICE (ARES) net meets at 9:00pm for the purpose of discussing the latest ARES organizational information. EC's Mark-KC6CZO (North County east of I-15) and Jack-WD6DLW (Tri-City) are responsible for conducting this net for ARES members.

The Monday Evening MICROWAVE NET meets each week at 2100 hours to disseminate information on microwaves. Kerry-N6IZS is moderator and net control. Other net controls are: Ed-W60YJ, & K6DS. Suggest you join the microwave group if you are interested in microwaves.

The Tuesday VOICE PACKET NET meets each week at 2100 hours to disseminate the latest information on packet. Paul-KB5MU is moderator and net control. Other net controls are: Mike-WB6HHV, & N6NKF. Suggest you join SANDPAC if you are interested in packet.

The Wednesday evening CODE PRACTICE NET meets each week at 2100 hours to help amateurs practice their code and to let you see what you present code speed is. Net controls are: Stan-W9FQN, Carl-N6NZX, & Mary-KB6NZA. We need more net controls who have computers that can be used to send code practice material and we could use several members who could play some of our tapes on tape recorders.

The Thursday HAM HELP NET meets each week at 2100 hours to help amateurs with their amateur radio related problems: transmitters, receivers, antennas, feedlines, etc. Larry-KC6PEN is presently net

manager. Net controls are: John-KK6IL-(1st), Larry-KC6PEN taking the rest of the month except for Joe-N6YMD who will take the Thursday executive meeting night.

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FULL-SERVICE TRAVEL PLANNING  
- N6RAO -

LOREEN WILHELMY



619-756-2388

TRAVEL VISIONS

Encinitas, CA 92024

ARES uses 146.730(-) when they have emergencies and ARES has priority use of that repeater. The Animal Rescue group uses 147.130(+) for emergencies but must also accommodate ARES's overflow and use of the autopatches. Both groups will use 146.175(+) for local emergencies in the Fallbrook area.

#### OTHER NETS

The San Diego ANIMAL RESCUE NET meets on 147.130 during emergencies and has priority use of the frequency unless ARES has overflow and needs the autopatch. ARES has priority use of 146.730 during emergencies.

The RADIO AMATEUR COMMUNICATIONS EMERGENCY SERVICE (RACES) NET meets each Monday at 7:30pm on 147.195. Except for net nights, the RACES repeater uses a PL of 114.8 Hz but not for this net. Contact Frank-WB6HFE on the 8:30am Sunday net on 146.730 for more information about RACES.

#### DISCLAIMERS

Meetings at LINCOLN MIDDLE SCHOOL are NOT a function of the Vista Unified School Dist. & are NOT sanctioned by the school Dist. Board of Trustees. See!

Unless specifically stated to be club policy, opinions and statements set forth herein do not necessarily represent club policy even though the president is the temporary Editor. Nor do they necessarily represent the opinions of the authors on other occasions or under different circumstances. The Editor further disclaims any knowledge of anything - real or imaginary. Verily.

You can copy anything out of the SCOPE you want as long as you give credit to THE PALDMAR AMATEUR RADIO CLUB, Inc., and author(s).

#####  
P O T P O U R R I

PARC is a volunteer organization and with Jo-KB6NMK taking care of membership and Bill-W6COU operating the "giant computer." With 415+ members it takes them each almost 7-10 hours to process all of the renewals so if you can pay for 2-3 years at one time we can make their job a little easier and cut down on the LAST MINUTE rush to get the membership lists in shape for the new club year starting August 31st. Jo is asking that when you pay your dues that you give her a check to help keep us honest.

P L E A S E R E N E W N O W !

- BK -

OVERHEARD on 146.73

...have my 50 H.S. renunion this June - N6QJE ...my velcro corset keeps slipping - N6UWW.

- BK -

HAM STAMP PINS: Replica of ham postage stamp, \$5. Contact an officer at the next meeting.

- BK -

JOIN THE ARRL: When joining or rejoining the ARRL, do it via the Club which will receive a modest stipend otherwise going to the ARRL. Make your check payable to the Club

and get it, with your membership application, to our Treasurer, Benton-KK6LX. NEW ARRL membership applications which include the PARC number (#1703), garner the Club \$5 - and it doesn't cost you a fat farthing more!

- BK -

OFFICIAL CLUB BADGES: see John Tentor, W6QLQ, 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.

- BK -

NOVICE AND TECH frequencies of 3700-3750 have been changed by the FCC to 3675-3725KHz to reduce interference to Canadian amateurs.

- BK -

According to the 90-91 ARRL Repeater Directory, PARC is the 11th largest amateur radio Special Service Club in the United States with 370 members although we now have about 415.421

- BK -

FAIR RADIO SALES Co., P.O.Box 1105, 1016 E. Eureka St, Lima, Ohio 45802, is celebrating their 44th anniversary this year -wow! I have been ordering "war" surplus items from them for 38 years and they have the neatest catalog of things that you just "can't do without."

- BK -

Buying PRINT WHEELS for Diasy wheel printers can be expensive. In the past the wheels have cost me up to \$21 each ..but no more. Bill Allbritton & Associates, 2603 Artie St (Suite 16), Huntsville, AL 35805, carries a full line of print wheels which you might want to look into. Mine have been costing between \$4 and \$9. If you mention the SCOPE and W9FQN, he will give you a \$2 credit towards any purchase that you might make. Be sure to give him the name and model of your printer and the type of wheel you have been using.

- BK -

WHAT WILL HAPPEN TO YOUR AMATEUR RADIO EQUIPMENT? To avoid confusion

and uncertainty when that inevitable day arrives and to prevent some unscrupulous individual from taking advantage of your loved ones by "cashing in" on the situation, NOW is the time to plan for the disposition of YOUR radio equipment.

1) Create and maintain an inventory of equipment, showing initial purchase price and realistic, current resale value.

2) Designate a knowledgeable ham (or Palomar ARC) who can assist the family with the disposition of the equipment. 3) Provide written instructions if specific items of equipment are to be given to family members, friends, PARC, or schools.

By devoting a little time to organization, we can be of immeasurable help to our heirs, and be confident our radio collection will be handled as we would wish. de KC5PF via Ham News Outlet, P.O. Box 1921 Broken Arrow, OK 74013.

- BK -

INTERFERENCE: IGNORE it. Don't

give the jammer what he or she craves - notice and attention. Carry on your QSO or sign off or move to simplex, but do NOT acknowledge the crazies. At the same time, try to hear the interfering signal on the input of the repeater and, if possible, determine the direction of the source. You can also move "up one" to 147.130 to complete your contact.

- BK -

EARS T-HUNTS: Contact Jo-KB6NMK for latest information. Hunt freq. is 146.565 at 0900 in Escondido or Rancho Bernardo on the 3rd Saturday of the month. Check 146.880 when near Escondido for more info. If you are just getting started, ride along with an "experienced" T-hunter. Contact Jo-KB6NMK or Carl-N6WLX in Escondido for more information

- BK -

N6IE sends a note on info from THE SAN DIEGO UNION indicating that the FCC is proposing a "finders-

keepers" licensing system to encourage business radio users to ferret out underutilized or vacant channels on the nation's crowded airwaves. Those who "find" unused frequencies would be rewarded with a license to the channels, as long as the finders meet minimum eligibility requirements. Well, here we are again: "Use it or loose it."

- BK -

SWAPMEETS: Contact a club member about Saturday swap meets: Santee-1st, Cucamonga-2nd, Chatsworth-3rd, and TRW-last.

- BK -

HAM CALL LICENSE PLATES: current registration, Application for Amateur Radio Call Letter License Plate (Reg441-rev8/83), FCC License, surrender old plates, pay \$21 +\$1 for reflectorized plate. Comments: no trailers, your name must be on registration, and \$12 fee to transfer Ham plates to another car or must surrender plates.

- 73 W 9 F Q N -

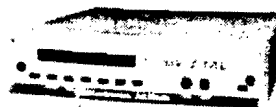
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# PARC APPLICATION

Membership chairwoman: Jo Ashley, KB6NMK



Mail form WITH CHECK to PARC, P. O. Box 1603, Vista, CA 92085-1630 or hand your CHECK to Jo-KB6NMK, at club meetings. Dues (including SCOPE) are \$12 a year plus \$9 for each additional licensed family member. Dues are prorated for NEW members: Aug, Sep, Oct \$12; Nov \$9; Dec \$8, Jan \$7, Feb \$6, Mar \$5, Apr \$4, May \$3, Jun \$2, Jul \$1. Old members (1yr) \$12. Consider paying for two or three years at a time. Call, name, and complete address are required. Telephone number may be un-unlisted in roster if requested. Other information requested below may be omitted if you feel uncomfortable providing it to the club. Complete and cut on dashed line - or COPY.

Call \_\_\_\_\_ Name \_\_\_\_\_  
 License \_\_\_\_\_ Home \_\_\_\_\_  
 Expires \_\_\_\_\_ Address \_\_\_\_\_  
 License \_\_\_\_\_ 1st 5 \_\_\_\_\_ +4 \_\_\_\_\_  
 Class \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ - \_\_\_\_\_  
 Old Calls \_\_\_\_\_ Home Phone # \_\_\_\_\_ Work Phone # \_\_\_\_\_  
 (ie., pg 8, D6)  
 Year 1st licensed \_\_\_\_\_ Birth date \_\_\_\_\_ Thomas Brothers location, page # \_\_\_\_\_ coord \_\_\_\_\_  
 Names & call of family members in PARC \_\_\_\_\_  
 ARRL \_\_\_\_\_ RACES \_\_\_\_\_ ARES \_\_\_\_\_ Red Flag \_\_\_\_\_ Blood donor \_\_\_\_\_ Type \_\_\_\_\_  
 Comments : \_\_\_\_\_  
 Interests: \_\_\_\_\_

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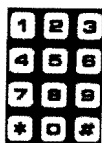
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— LOOK INSIDE —



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DELIVER TO:

**Amateur Radio Today**



NEXT MEETING WEDNESDAY

June 5th

**Scope**  
**W6NWG**

Pg 12



# Scope

W6NWX

**Palomar Amateur Radio Club Inc.**

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WA6IPD/R 146.175+(Patch)

PARC 446.000(s)  
220 Club SD WD6HFR/R 224.900-

V O L X X V I , N O . 7

J U L Y

1 9 9 1

5 5 y e a r s

July 3rd meeting(1st Wed) is at Lincoln Middle School Cafeteria in Vista. I-5 or I-15 to Rd.78, Escondido Ave(Sunset) ramp, north on Esc.Ave, after 2nd light between Eucalyptus and E.Vista Way. Talk in .730.

## H A M C A L E N D A R

Jul 3 Wed - PARC Club Meeting  
Jul 5,6,7 - PARC @ Del Mar Fair  
Jul 13 Sat - PARC VE Test, AA6OM  
Jul 11 Thu - PARC Executive Mtg.  
Jul 10 DUES MUST BE IN FOR NEW YR  
to retain membership in PARC  
and to receive your Sep.SCOPE  
Aug 1 Thu - Start new club Year  
Aug 18 Sun - PARC Picnic/Drawing  
(Send calendar items to W9FQN)

## C O N T E N T S

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## L A S T C L U B M E E T I N G

The June 5th program consisted of an excellent slide show by Terry Dubson-W6MKD on his DXpedition to Western Samoa. Dennis-N6KI, our FD whip, made some comments on Field Day which resulted in us having the best W6NWX Field Day yet in terms of contacts made in 24 hours.

Attending were 70 members and 15 guests (total 85) who enjoyed the coffee and goodies. Art-KB6YHZ supervised the coffee. THE GOODIE TABLE NEEDS GOODIES SO WHY NOT BRING SOMETHING FOR NEXT MEETING. Thanks.

## N E X T C L U B M E E T I N G

Our next club meeting will be July 3rd at 7:30pm in the Lincoln Middle School on Escondido Avenue in Vista. The program will be potpourri with John-WB6IQS talking on coax, Dennis-N6KI on preliminary Field Day results, Stan-W9FQN talking about and soliciting comments on a possible building program at the repeater site, and the new proposed autopatch system.

## W A N T t o B E a H A M ? (or Dial-a-Ham)

If you or a friend are interested in becoming an amateur radio operator and in joining the Club, please contact one of the following ELMERS for more information or use the application form on the back of this issue:

VALLEY CENTER . Stan Rohrer . W9FQN  
(President, Editor(temp) 749-0276)  
VISTA . . Jack Hanthorn . . KI6JM  
(Vice-President, 598-0420)

BONSALL . . Nash Williams . . W6HCD  
(Secretary, 728-3574)  
CARLSBAD . Benton Caldwell . KK6LX  
(Treasurer, 729-5161)  
ESCONDIDO . . Jo Ashley . . KB6NMK  
(Membership Chairwoman, 741-2560)  
CARDIFF: Duane Stedman:WB6R:753-4821  
CARLSBAD:EleanoreCall:N6QJE:729-0850  
DEL MAR:GerrySanford:KC6BJM:755-5244  
ENCINITAS:DaveCopley:WA6HQM:753-2605  
FALLBROOK:Artrideout:WA6IPD:728-6834  
La MESA: Roger Jaffe: N6UW:697-6025  
LAKESIDE:Mac McBride:WB6GXR:561-2211  
LEUCADIA: Bud Lincoln:KG6VX:436-9983  
LinVistaPaulWilliamsonKB5MU:571-8585  
MIRA MESA: Ron Earl: W6TXK:566-1959  
OCEANSIDE:LarryGugle:KC6PEN:439-4109  
OCEANSIDE: Lloyd Hunt:W6TFB:757-9374  
PAUMA-PALA:Mark Ross:KC6CZD:742-1539  
PointLom:MickMcDaniel:W6FGE:222-3912  
POWAY:MarkSchlesinger:N6NNI:748-8391  
RAMONA: Vernon Leming:AA6UU:789-3070  
RanchoPen:John Tentor:W6OLQ:672-3891  
RanchoS.Fe:RonWilhelmy:WI6B:756-3133  
S.D.:Dennis Vernacchia:N6KI:271-6079  
SanMARCOS:FloydHarvey:W6JSP:741-8391  
SanMARCOS:RustyMassie:AA6OM:747-5872  
SolanaBe:LouBroadbent:N6CKQ:755-9179  
Vista: Jerry Houser: WB6FMT:758-4388  
MIRA MESA: Ron-W6TXK sometimes  
conducts classes so contact him for  
the latest information on the  
starting of his new classes, 566-  
1959.

POINT LOMA NOVICE INSTRUCTION and

TESTING: contact Mick McDaniel, W6FGE and friends, 222-3912.

EL CAJON: covered by the El Cajon Club with Bill Smith-KB6MCU an instructor (582-2313).

Escondido ARS sometimes conducts classes. Contact KB6NMK, 741-2560.

PARC has some code tapes available for younger members who find some of the "starter" packages a little too expensive, but you will need a current test booklet. We also have IBM compatible disks of a great code program available at club meetings. If you have a good code program, please make up a disk with it and several other programs for us to get new hams started. The club will exchange disks with you. We need programs for Apple and C-64's. We presently have programs for IBM and Radio Shack Mod III & IV.

One of our members from Fallbrook, Ray-KK6CA, has consented to make up special code tapes for those wanting special types of code practice material. Please bring in your blank cassettes and be prepared to tell Ray what type of practice you want.

EXECUTIVE MEETING

5-9-91 DISCUSSED: KA6UA1/R 20kc dev problem, proposed new 9600 baud 450 node with WQ6V donated Mitrlk Motorola, work day 6-16, balance \$5,654, programs, questionable free ads, phone lines (2), VE testing location, Dennis-N6KI's tremendous FD effort, etc.

APPROVED: \$10 Palomar Mt planning commission, new building info before the club in July, & WB6FMT autopatch proposal with possibilities (repeaters & locations).

IN ATTENDANCE: (officers) Stan-W9FQN, Jack-K16JM, Nash-W6HCD, and Benton-KK6LX; with John-WB6IQS (Technical) and Jo-KB6NMK (Membership). Also attending for Field Day were Dennis-N6KI (co-chairman), Duane-WB6R, Joe-N6YMD,

Karl-N6WLX, and Paul-KB5MU. The June meeting was at Stan-W9FQN's QTH and we all enjoyed the cold water and brownies provided by Barbara-KA6FPS and Susan-N6QDB. The July 12th meeting will be at W9FQN(#3), Valley Center.

> del PRESIDENTE #6 <  
(after #6 comes #5!)  
(and temporary editor)

Letters sent to me should be addressed to 30311 Circle R Lane, Valley Center, CA 92082-9423 preventing a 15 day delay when sent through the club's address in Vista.

- BK -

FLASH, FIELD DAY: Its over! More later. Because of a lack of time and space we will cover FD next month. We scored approximately 4,470 contacts under poor conditions (solar flares) but more than our 4,171 contacts last year. Thanks to everyone for a job well done ...and we hope we are #1 this year!

- BK -

We are still in the need of PARC members to man the SANDARC Del Mar Fair booth. The schedual is as follows:

	5th	6th	7th
10-2	N6UW K16JM	AA6KY KC6TLW	WBOYQC KC6OEI
2-6	N6KI WF6L	N6SMW Judy S.	WD6FWE open
4-10	W9FQN KA6FPS	WR6J? open	KB5MU open

Call Barbara-KA6FPS now (749-0276). You can still sign up at the Wednesday meeting and possibly do some "shifting around." Take the family to the fair while you HAM IT UP at the SANDARC booth with your FREE ticket.

- BK -

The Executive Committee is again looking into the building of another BUNKER at our site on Palomar Mountain. The present building (9x9') has always been a little small for us and it is difficult to really work on equipment among all the repeaters, batteries, duplexers,

and control racks. The new block bunker would be about 12'x24' and would cost between \$3,000-\$4,000. The county says that we need a building permit for all consturcted buildings that have have AC in them. We need members who would be able to help in the construction of the building:

- 1)draw the plans for the county
- 2)final est of the \$\$\$ needed
- 3)trench, cut and lay the rebar
- 4)frame footing & pour the slab
- 5)lay blocks and mix mortar
- 6)install electrical outlets
- 7)install lighting in/outside
- 8)inside finishing, painting
- 9)outside finishing, painting
- 10)move equipment to new bunker

Because of the cost and work involved, this might be a two stage project with the floor and as much of the walls as possible being constructed this Summer and Fall with the remainder next Summer.

Please contact any Executive Committee member if you can help: W9FQN, K16JM, W6HCD, KK6LX, WB6IQS, KB6NMK, etc.

The Executive Committee will soon be deciding if and when this will be brought to the general membership of the club for a vote on whether the club should embark on this project.

- BK -

The club has been interested in autopatches for some time although we have been afraid of the problems associated with them as experienced by some other clubs. The Encinitas and Vista autopatches have sort of "calmed" our fears to the point where we are encouraged to continue on with the next phase of the project which would allow our autopatches to cover 98% of San Diego County for all of our club members (this is covered under REPEATERS). The additional expense to the club over the next six months could be between \$500-\$1,000 and this needs to be balanced against our other projects.

- BK -

73, Stan W9FQN



## REMINDER

If your mailing label indicates PRC9107, then this is your LAST issue of the SCOPE and it is time to renew your membership immediately.

## NEWSLETTER HELPERS

- June 1991 SCOPE -

Members, Ads, Label, JoAshley .. KB6NMK  
Membership Data, Bill Whipple N6COU  
Billing Ad, etc, John Tentor . W6OLQ  
Folding/Staples, Jack Hanthorn KI6JM  
also provided QTH & refresments  
Folding/Staples, Lloyd Hunt .. W6TFB  
Folding/Staples, Bill Whipple N6COU  
also roster and label printing  
Labels .. Susanna Garmendia de Spain  
Sorting . . . . Eleanore Call N6QJE  
Printing/Forms, Stan Rohrer . W9FQN  
Printed 480 Mailed 450

Without these people life would  
certainly be difficult. THANKS!!

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#####
>  RECOGNITION of  <
    (thanks)
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Ralph-(Assoc.) for the nice VFR flyway planning chart of San Diego Co. Should be of great help in direction finding activities.

- BK -

(6-11) Duane-WB6R, Benton-KK6LX, Walt Huckabay-W6JQR's son, and Stan-W9FQN took down Herb-WA6SVN's beam and tower so that he could move into a retirement home in North Co. Duane finished picking up the small items on the 12th. After 39 years at the same QTH, its real hard to pack up and move. On the 12th Duane took down the rest of the antennas but missed his footing on a ladder and landed on some well placed dog droppings cushioning his fall and adding a little fresh aroma to his trousers ..and his splinter from the 11th seems to be healing nicely!

- ВК -

Orlando-N6QVW for making several telephone calls to locate a sick girl's parents. The call came from Katie-N6UMX who was at the Featherstone girls camp near Lakeside where they were without phones. We hope that in several months she will be able to make the

call through a new PARC autopatch covering that area.

- BK -

Art Nye-KB6YHZ for the many hours of work on drawing up estimation plans and obtaining an estimate on the possibility of building a new bunker at our site on Palomar Mountain for the executive committee.

- BK -



Tony-KA6TNI and his son (who works at TRW) for the 16el 2m beam 21' long. Tony has a neat station and is using a G5RV windom antenna from HRO (52ohm -> 300ohm). Looks neat and fits in the corner of a small lot ..works all bands. Contact Tony for a "user" report (758-3603).

- BK -

Larry-WQ6V for the donation of a 460MHz transceiver which we hope to put into operation as a high speed 450 port to the 145.050 digipeater allowing inter-San Diego communications to be speeded up considerably.

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#####
> FIELD DAY 1991 <
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WORKPARTY (6-15) Orlando and neighbor repaired a 40' crankup

tower given to the club some time ago which had three "ice-bursts" making the holes look like someone had set off a stick of dynamite inside the pipe. They really did a great job of welding and the tower is almost like new ..if it had a coat of paint.

WORKPARTIES (6-??) Carl and crew seemed to be out in the "back 40" testing 75m antennas every time we turned around.

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#####
> REPEATERS, etc. <
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TECHNICAL: John Kuivinen.....WB6IQS  
- - TRUSTEES - -

W6NWG/R: Ron Wilhelmy ...WI6B->

146,730(-) and 449,425(-)

145.05(s)pkt W6NWG-1 or PALMAR

KA6UAI/R: Erik Thompson. 147.130(+)

WA6IPD/R: Art Rideout, 146.175(+)

WD6HFR/R: Ron Berger-NE6T,224.900(-)

(All CTCSS(PL) tones are 107.2Hz)

J O H N - W B 6 I Q S

John, our repeater technician, has been working diligently on a rather sophisticated battery controller-charger for the repeater bunker. In emergencies, the repeaters will fall back on 200-300Ahr of backup battery power. After that is exhausted, they will then be transferred to two battery banks of 1,500Ahr each. We also have a 3.5KW 120 VAC generator waiting to be sent to the bunker which can be remotely started from anywhere in San Diego County. We need someone to help us with the generator project. It only requires mounting the generator to the cement slab in the generator shed and several wires connecting up batteries and 120VAC.

John also has been into some of the club's eleven new 450 rigs and has mapped out how they need to be converted to our use. Two of the units have been modified and the rest will be turned over to WB6FMT for modification.

John's third project is to take the 460 Motorola transceiver given

to us by Larry-WQ6V and to see if it can be used for the 450 packet port to our 145.05 digipeater. The unit will then be turned over to Paul-KB5MU for adding it as a port to 145.05. We still have room to add a 10m port if someone is interested in helping with that project.

In John's SPARE TIME, he is working on another Motorola repeater which will be used to replace the present 146.730 repeater. The old 146.730 repeater can then be used as a backup to 146.730, a new frequency, or packet operation. John really could use some help with these projects so let us know if there is anything that you could help us with in the near future.

- BK -

Please remember that we do not discuss certain things on PARC repeaters: 1)repeater location, 2)repeater systems and operation, 3)access codes, and 4)controversial subjects that might be offensive to others inviting them to jam or create other types of interference to our systems.

- BK -

The Federal Communications Commission (FCC) forbids your using amateur radio to conduct business. You cannot use Ham frequencies to run your business, order parts, tell employees where to go, tell them where to stop for pick ups, etc. You cannot ask someone to contact a place of business to pick up a pump for your job site. You cannot use the repeaters (autopatches) to order pizza, ask a bookstore if they have a magazine, ask a plumber to come to your house, ask a ham to stop by a commercial establishment to buy something for you or your business. Also, if you are trying to avoid a toll call by calling your spouse from the office or from the office parking lot by amateur radio, you are in trouble ...and PARC too for providing you with the opportunity to sin.

You can probably call your spouse about whether you are to stop for groceries (a "few" since that

implies a "spur of the moment" state of mind) but don't do it from the parking lot of the store picking up a list a mile long. You can use the autopatch to report telephone or power outages. You can probably ask a ham to stop by HRO for something that you need since it is obvious that it is connected with amateur radio and probably the operation of your station. You probably can get away with asking someone to stop in someplace to find out the cost of coax for your station ...but not for a commercial station. You can indicate that you have a rig for sale with the approximate price but you had probably better tell them to give you a "land line" to discuss the exact price. There are swapnets that mention specific prices but they are certainly operating in a GRAY area of FCC rules and regulations.

The club's viewpoint is that if you are in doubt about what to do, don't do it! Until the FCC spells out what is legal (and they won't), we have to use good judgement in what we do or they will fine us and pass very restrictive rules. Some present amateur fines have been for \$2,000 and these were not interference fines.

Over the past four months we have been told that several amateurs have been using improper language on the 147.13 repeater after 2am. If you hear any of this, please copy down call letters (if any) and notify a club officer immediately (later in the morning?). The repeaters can be put on "standby" during the early morning hours with a special code required to "wake" them up if this continues.

- BK -

10 METER KA6UAI LINK. Greg-WB9MII uses the 10m link probably about the nicest of anyone. He comes on the repeater, announces access like he was using an autopatch, calls CQ 10m de WB9MII remote, listens 5 seconds, and calls CQ again. If he gets no response, he shuts down the link and leaves.

Some users bring the link up, call CQ, and listen for 10 minutes which causes all sorts of problems. Sometimes while they are listening another conversation starts up on the repeater ...which of course is now going out on 10m. Please do not listen on 10m for more than a few seconds. If there is activity on 29.6, you will hear it almost immediately. Call several short 10m CQ's with little space between your calls. If you are interfering with anyone on 29.6, I'm sure they will let you know right away.

The club should should have a beeper on the repeater when the repeater is in the 10m mode so that others could recognize that the "blank space with beeper" was someone listening to the 10m link. The easy thing would be to remove the squelch from the 10m receiver so that you could hear the "hiss" of the "open" 10m receiver but this might be somewhat obnoxious. We will work on the problem.

The 10m link is only for Generals and above unless you can get a general class licensee to bring up the link and shut it down for you.

- BK -

WORKPARTY (06-01/02-91): Erik-KA6AUI and crew took the 147.13 repeater off the mountain for deviation adjustments and installation of a Motorola part "that never was soldered in" but appeared in the schematic. There is still a problem with its deviation which will require another trip to the mountain. TASMA specifies that repeater deviation must be kept at a 3.5kc maximum while industry standards are below 5kc (4.5kc is usual).

- BK -

WORKPARTY (06-16-91): John-WB6IQS, Mike-KC6KCQ, and Ron Miele (waiting for call) trenched two new 1.5" AC lines (#8x3 220) and 12VDC lines (#12x2 4pr) between the bunker and the battery shed. They also pulled in an 8-conductor control cable. We hope to connect everything up next trip. Afterwards

Mike gave John a personal tour of his QTH on Palomar Mountain.

- BK -

REPEATER RULE #8: You always wait to remember whether you locked all of the repeater buildings until after you have reach the 2,000 foot level of Palomar Mountain ..and then return to the 5,600 foot level only to find everything properly locked. A TRUE STORY - W9FQN.

- BK -

Our repeaters in the PARC bunker on Palomar Mt. at 5,600' cover 2,000 sq.mi. of SD.Co. and 100+ miles out to sea. It is club policy that these repeaters are open repeaters FOR CLUB MEMBERS AND OCCASIONAL TRANSIENT USERS with the AUTO PATCHES being ONLY for club members. Be FRIENDLY to those that you talk to, and INVITE them to support the club with their membership. You can check their membership in PARC by asking them if they have seen something in the most recent SCOPE.

A U T O P A T C H E S on 147.130  
KA6UAI/R: Erik Thompson KA6UAI #1  
ENCINITAS + surrounding towns  
KA6UAI/R: Jerry Houser WB6FMT #2  
VISTA + the surrounding towns  
KA6UAI/R: Dennis Vernacchia N6KI #3  
SAN DIEGO, activated Fall of '91?  
KA6UAI/R: Kerry Banke N6IZW #5  
LA MESA, activated Fall of '91?

A U T O P A T C H on 146.175  
WA6IPD/R: Art Rideout WA6IPD #4  
FALLBROOK + surrounding towns

For specific information on the autopatches please contact W9FQN, WB6FMT, WA6IPD, or KA6UAI.

- BK -


The autopatches are being installed on our repeaters for emergency use: road accidents, earthquakes, fires, flood(?), personal injuries, etc. We need to be ready to use them during emergencies so in the meantime, while waiting for the emergency, we need to know that they are working properly so feel free to use them for emergency and non-emergency

communications.

Remember that autopatches are "third party" communications and do not have priority over amateur to amateur communications except in emergencies. Therefore, it is not proper to BREAK into a conversation to advise the spouse that you are headed for home or for any other mundane communications unless the information is really important and would cause undue stress if not received. The KA6UAI repeater is for amateur to amateur communications and is not an "autopatch only" machine. PERSONAL messages should be delivered by land line along with any BUSINESS communications. Don't even call a number that answers with a business recording or a secretary giving the name of a company! Some of you might even want to consider "re-programming" your answering machine so that it just says, "LEAVE A MESSAGE AFTER THE BEEP."

FARMERS INSURANCE GROUP  
OF COMPANIES  
Agent

TIM HOY -KI6GI-



AUTO FIRE  
LIFE COMMERCIAL

619-466-9770  
8911 La Mesa Blvd., Suite 103  
La Mesa, CA 92041

In general, PARC has been pleased with the operation of the present autopatches by club members and for this reason we are working on the completion of the last phase of the autopatch project. The KA6UAI Encinitas patch is averaging about 1.5 calls per day while the WB6FMT Vista patch is at 5.7 calls per day.

Every club member at some time should attempt to place a call on one of the patches so that in an emergency it will not be "a first time" experience. Remember, the codes are on your address label: 1st Encinitas KA6UAI/R, 2nd Vista KA6UAI/R, & 3rd Fallbrook on WA6IPD/R. To take the KA6UAI/R off of PL use \*80 and back on with #80.

- BK -

The club has been operating two autopatches on the KA6UAI repeater this past year using a system that works but is not of the quality and reliability of the WA6IPD Fallbrook repeater that we would like to see. We have asked Jerry-WB6FMT to look into ways of improving our present autopatches and to expand them into the last two areas of interest, mid and south county, providing the club with almost 100% coverage of S.D. Co. during emergencies.

During times of emergencies we have observed Amateur Radio Emergency Personnel (AREP) wanting to make calls to other emergency personnel or governmental agencies: ARES, RACES, Red Cross, Animal Rescue, Animal Shelters, Police, Specific Fire Stations, Mountain Rescue Teams, Rescue Dog Teams, Red Flag Fire Patrols, Fire Liasons, etc. Sometimes the AREP are away from phone lines and sometimes certain phone areas are dead or their trunk lines cut by fire or accidents.

Present plans call for making ALL autopatches available to ALL of our repeaters on Palomar Mountain: 146.73, 147.13, & 449.425. Other repeaters will be opened up to autopatches as we gain experience and progress towards our goals. If we cannot make ALL autopatches available to ALL repeaters, we will probably put the Vista WB6FMT patch and the La Mesa N6IZW patch on 146.73 and leave the KA6UAI Encinitas patch along with the N6KI San Diego patch on 147.13. It will also be possible to cover ALL areas with only the WB6FMT, N6KI, and N6IZW autopatches since the N6KI and

WB6FMT patches cover every prefix covered by the KA6AUI patch. We are also considering the opening of the Ramona area to autopatch use, if there is interest.

We will probably keep our present autopatches on 147.13 in operation until the new system is up and working properly. The new system will probably be connected as follows: 1st 146.730, 2nd 449.425, and 3rd 147.13 with the possibility of the 220 machine next year. Past experience indicates we will not move as fast as we would like to move but we are looking at Palomar Mountain additions in September, 146.730 connection in October, 449.425 in November and completion of the project by the end of 1991. Everything would move much more rapidly if we had more help...and more slowly with problems or without help. Remember, all officers, trustees, and committee heads are volunteers and don't receive lc for work done! Everything is done during our "spare time" with surplus equipment modified to work in the Ham bands.

When the basic cost of a repeater is \$30 for the transmitter and receiver, and the controller is \$150, you know we are taking the cheap way out with John-WB6IQS supplying the "know-how." Many clubs spend \$1,500-\$3,000 for the repeater and \$2,000 for an intelligent talking controller. That doesn't take into account filters and antennas. Autopatches, radios, identification, filters, and antennas for autopatch systems could cost \$1,000-2,000 for each patch (\$4,000-8,000 total for four patches) but so far we are operating at a fraction of that cost. During the testing phase of the autopatches the club has been using equipment supplied by Erik-KA6UAI, Jerry-WB6FMT, and items supplied by the PARC (ie., prefix filters, a telephone line, antenna, etc.) In times of emergency the ability to access the phone lines with 2-3 phone connections reduces the

possibility that an accident would completely sever us from all of the phone lines.

Provisions are being made in the new system for the possible "dumping" of ALL unauthorized calls to SPECIFIC NUMBERS or CALL AREAS, and ALL calls made by non-members although you could still call up the patches for a non-member, if you wanted to do so. The restriction of the patches to only club members is because we feel that club members will be more aware of the problems connected with the use of autopatches by their reading of the club newsletter, the SCOPE. At present we only restrict you to specific call areas and to specific telephone numbers that are abused. The priority on the "dump" feature IS NOT HIGH on our list but it could easily be moved up higher if we detect problems in the future.

**Patents**

**Trademarks**

**Copyrights**

**"Mac" - W9WV**

**LOYAL M. HANSON**  
**Registered U.S. Patent Attorney**  
**Fallbrook 723-0620**

We are getting a lot of "new hams" who are not familiar with amateur radio and this could possibly open us up to problems in the future on our repeaters and autopatches. We could issue each member his own personal access code but we would like to stay away from too many restrictions. Club members need to continue using the patches

intelligently within FCC AND CLUB guidelines..note the use of "CLUB" guidelines. We not only want to be "LEGAL" but we want to be Conservative, Polite, and Quick (CPQ).

- BK -

#####  
> - F O R S A I L - <

If you have an item for sale, bring it to the SALE TABLE at the club meetings, tagged with name, call and minimum price, if any. The Club takes 10% and you go home with \$\$.

PARC takes NO % on the ads below and they ARE FREE TO CLUB MEMBERS. The month of first being run is indicated by date at the beginning of the ad. PLEASE tell us when the item(s) are sold.

Deadline FORSAIL items is the 15th of the month addressed to the temporary editor at his home address: 30311 Circle R Ln, V.C., CA 92082-9423 or call 749-0276. Late items will appear the following month.

SILENT KEY'S ESTATES: A club member is appointed by the PARC executive committee to handle each individual station with initial contact by Eleanore-N6QJE and pricing of equipment being done by a PARC committee headed by Dennis-N6KI. Announcements of Silent Keys in the SCOPE is done only after PARC contact with the family.

MEMBERS FREE ADS are for the sale of their own used personal equipment, or for the sale of approved PARC Silent Key Estates (which must be so designated in the ad.) Sale of new items or other items incidental to a commercial operation should be done through the purchase of a PARC paid ad with the exception of items offered by PARC.

SWAPMEETS: Dennis-N6KI (price\$); John-WB6IQS (VHF, UHF, Hardline); Kerry-N6IZW (Microwave & test equipment); Paul-KB5MU (Pkt, Computers); and Bill-KB6MCU (ATV).

- BK -

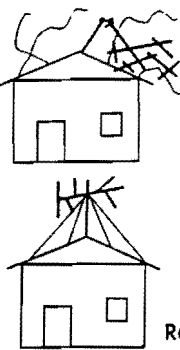
(6-23)Kenwood TM-TS-700(SP) service

manual \$3; Ringo Rangers, 2m, 220  
:PARC-Hillside-Electronics-W9FQN-  
749-0276-VillyCtr

- BK -

(6-23) Like new Kenwood mobile (used  
as a base) TM-2570 5-70w 2m FM xcvr  
with mic, digital coded squelch  
(DCL), PL's, telephone number  
memory, call letter transmission &  
reception, and a cute little  
Japanese lady who has been taught  
to speak the frequency in English  
(MC-42S, MU-1, TU-7, & VS-1) \$550  
(new \$850) (converting to  
dualbanders): Stan-W9FQN-749-0276-  
VC. (Seventy watts will help fill in  
those transmitting mobile "holes" in  
south county.)

- BK -



If your antenna  
system looks like  
this and you want  
it repaired, re-  
placed or even  
removed, please  
call for a free  
estimate! Radio  
Systems, Install-  
ation, Repair and  
Removal, Interference  
Resolution Edward Ross

542-1405

**Antenna** N6GZI

**Specialties**

(6-18) Kenwood TS-520 xcvr w/Shure  
444 mic \$350; Tempo-1 HF xcvr \$150;  
Ten-Tec 238 2kw ant tuner \$250; MFJ  
815B cross-needle SWR/Wattmeter \$50:  
Duane-AA6EE-eyes-789-3674-Ramona.

- BK -

(6-16) ICOM-730 HF xcvr w/15A pwr sup  
\$425; ICOM-255A 25W 2m xcvr \$125;  
Hustler mobile mast 75-40-20-15-10  
resonators \$90; 2m 3el beam \$15; 35'  
tubular crankup mast for big beam  
(needs cable); 3-el hy-gain 3-band  
thunderbird beam (needs some bolts)  
and other items too numerous to  
mention: Stan-W9FQN-749-0276-VC &

Duane-WB6R-753-4821-Cardiff for  
Doug-WA6SVN

- BK -

(6-12) New Yaesu 2m HT FT-411E \$280;  
NCG Mobile 15m w/ant \$175; Undien  
2600 Mobile 10m xcvr 25w w/ant \$175;  
cash on all items: C.L.Ball-N6HLY-  
487-6272-SD.

- BK -

(6-10) 20->40' crankup-fold-over  
tubular mast for tribander \$200:  
Phil-WF6L-757-7008-Oceanslide.

- BK -

(5-27) 21' vertical antenna 18AVT-WB  
(wide band) 80-10m 52 ohm \$75; 1w AM  
BC xmtr can be converted to 160-40m,  
schematic, case, meters, mic, used  
as PA system in hotel, \$50: Ray-  
W6BHF-487-4423-Poway.

- BK -

(6-6) Antenna Specialist  
Omni/directional "Super Scanner" for  
27MHz (can trim to 28MHz)  
w/telescoping mast, console control,  
manual, \$35: Bill-N6COU-758-7163.

- BK -

(5-17) Ultimate transmatch, Murch Mod  
UT-2000A 80-10m 2kw ant tuner exc  
cond \$100: Dennis-N6KI-271-6079-SD

- BK -

(5-17) Westcom 2m 90w amp \$70; Ten-  
Tec mod 238 2kw ant tuner \$275; B&K  
mod 1400 scope calibrator \$90:  
Duane-AA6EE-789-3674-Ramona.

- BK -

(5-4) 50' Rohn TOWER 56H (non-  
tubular): (Past PARC Pres) Ed-N6GZI-  
297-7758-S.D.

- BK -

(5-2) Kenwood TS940S mint xcvr \$1350;  
ICOM211 2m all mode xcvr \$350; RF  
Labs V76 6m solid state amp 8-15in  
100-120w out \$250; MFJ-989B 3kw ant  
tuner new \$250; Hustler 54" fiber  
glass mast \$15; Hustler RM-40 ant  
\$12; bumper mount-ball spring \$30;  
Johnson LP Filter Mod 250-20 1kw  
\$15; Cushcraft Ringo Ranger 6m \$30;  
Astro PS-RS4A new \$35; B&W coax sw  
594 \$20; Autec ARM-QF1A-AM-CW-SSB  
filter \$40; Hy-Gain Ham IV rotor new  
cond \$250; B&W coax sw 5 pos mod  
550A \$20; JW Miller coax sw 2 pos  
mod KS-002 \$15: R.F. Krist-W6KTE-  
941-3555-Vista.

- BK -

(4-22) Corsaire II Ten Tech xcvr 80-  
10m 100w 4yrs old, \$\$\$; and other  
HOT items: Felix-N6IE-277-8587-SD

- BK -

(4-18) HEATHKITS SB-221 HFamp 1KWcw  
2KWssb w/manual \$225; IG-102 RF  
SigGen 100KHz-220MHz 2/man \$35; EICO  
232 VTVM 2/man \$35; CHUSHCRAFT 10-  
3CD 3el 10m beam w/man \$65; ASTATIC  
D-104 mic w/stand and amp inop. \$25:  
Eric-XE2/KB6EP0-82-02-83-Tijuana,  
WANTED-TRADE for R-5 vertical ant.

- BK -

(4-15) Collins 75S3 W/E mint \$475;  
Collins Amp 30L-1 R/E \$675; Estatic  
D-104 mic new \$45; Bearcat 220  
scanner \$150; Alan-N7AMR-434-5656-  
Carlsbad.

- BK -

(3-15) 54' Tri-X "motor up" heavy duty  
TOWER: Jack-WD0DLW-728-0258-Fall-  
brook.

- BK -

LARRY E. GUGLE

-KC6PEN-

STCR REPAIR SHOP

Sarge's Two-way Communications  
Repair (619) 439-4109  
50% OFF Labor to PARC members

Business Lic.#500021, USMC (Ret)  
PARC member

25 years communications equipment  
maintenance experience for the  
USMC. Specializing in HF & VHF  
Transceiver & RF power amplifier  
repairs by appointment.

(2-15) Nicholas Andree of HIWAY  
COMPANY, intersection of Wisconsin  
and Hill streets in Oceanside is  
back in business and wants to sell  
off all of his electronic goodies as  
soon as possible. No reasonable  
offer will be refused. Nick  
indicates he will also donate 10% to  
PARC from items sold to amateurs.  
Here is your opportunity to really  
get some good "deals" and help the



club too. It would be good to give Nick a call at his home first, 967-7225, to make sure he will be at the store. Nick has been giving PARC some great deals.

- BK -

#### RE M I N D E R

If your mailing label indicates PRC9107, then this is your LAST issue of the SCOPE and it is time to renew your membership immediately.

#### W A N T E D

(6-18)2m xcvr, HF mobile ant, digital voltmeter, Heath QRP xcvr: Duane-AA6EE-eves-789-3674-Ramona.

- BK -

(6-15)Monoband beams; HF xcvr for Novice: Duane-AA6EE-789-3674-Ramona.

- BK -

(6-9)Old THOMAS Bros map books to be used to construct direction finding maps of San Diego Co.: especially pages 400-409.

- BK -

(6-6)For blind amateur, WA3EUL, Johnson Rnager or Eico 720/730 combination with VFO: Art-WA6IPD-2235 Gum Tree Ln, Fallbrook 92028, 728-6834

- BK -

(5-0)Old tape answering machine(s) to be used in a PARC information service for new hams and prospective amateurs: PARC-W6NWG-749-0276

- BK -

A PARC member who can send COMPUTER CODE Wednesday evenings over 146.730 as a back-up to W9FQN and N6NZX. IBM's and C-64's work fine for this. We would also consider your being able to just play a recorded TAPE which we can furnish to you: Stan-W9FQN-749-0276

- BK -

(5-17)Kenwood TS-520/820 xcvr; 200w ant tuner; digital voltmeter: Duane-AA6EE-789-3674-eve-Ramona

#### D O N A T I O N S

If you don't know what to do with it, donate it to the club. Donated items are sometimes used in club projects or are taken to a swap meet

for sale with the resulting \$'s going into the club Equipment Fund which pays for equipment used at the repeater site or for Field Day.

#### MEMBERSHIP

RENEW: KS6S-Bob-3yr; K6WLX-Bob-3yr; KC6GVM-Lyell-2yr; N6ZSY (was KC6LTY) Paul-2yr; Assoc-Mike-2yr; WA6IPD-Art-2yr; N6QMI-John-2yr; W6DNX-Carl-2yr; AA6UU-Vern-2yr; KK6IL-John-2yr; W6TDC-Lee-2yr; W6NKB-Marcel-2yr; KC6PEN-Larry-2yr; KA6FPS-Barbara-2yr; W9FQN-Stan-2yr; N6WEF-Frank; W8OYCQ-Henry; N6WEG-MaryLee; W6DVZ-Jim; KC6QXU-Joe; WA6HYC-Bill; W3ARU-Pete; W6YYV-Earl; W8BHE-Tom; W86XE-Mac; W6TET-Ivan; XE2/N6JZB-Wally; WA6DOC-Mark; W6FTV-Edward; K6ZOO-Erwin; KE6VX-Bob; N6HEY-Carl; WA6BEJ-Ted; KG6JA-Peter;

NEW: KE6SE Charles Fulcher Oceanside-2yr; KK6YB Gary Morris Escondido; KC6UQH Art McBride Escondido; KC6VEC David Griffith S.D.

A special thanks for those renewing for 2-3yrs. It really helps our overworked highly paid staff.

New member Lyell-K6GVM has been licensed since '55, 1st call WH6BDN, code at 15wpm, wants to join RACES, and start operating Packet.

Ralph Powell just joined PARC (no license yet) and has expressed an interesting in helping build antennas.

Henry-W8O/YCQ now works for MWR (Morale Welfare and Recreation) at the Marine Corps Base at Camp Pendleton..no wonder Henry is so happy every evening. He also sent along 74 & 64% reproductions of the SCOPE..sure can use the reduced PARC emblems for a project that I have going. Sorry, Henry, still have not taught my printer to back space and put a "/" through your "0".

Bob-KS6S evidently likes my "no smoking" art..he sent along "LET'S DO EACH OTHER A FAVOR, YOU DONT SMOKE AND I WON'T ....!" Sorry, the

FCC won't let me print all of it.

New member Art-KC6UQH is interested in antennas, DX, and Satellite Communications.

#### FOR NEW HAM S

(and some old hams)

FCC rules indicate that you need to identify each 10 minutes and at the end of your transmissions. The Palomar ARC would like to have you identify at the BEGINNING of your FIRST transmission so that control operators and other club members don't have to wait 10 minutes to find out who is talking. If you own your own repeater, you can do as you wish! If you are on Palomar ARC repeaters, PLEASE ANNOUNCE YOUR CALL IMMEDIATELY UPON ENTERING A CONVERSATION.

Anyone wishing to add to this section of the SCOPE should send their material or ideas to the temporary editor.

#### P A R C V E T E S T I N G

FCC LICENSE EXAMS in N.County are conducted by the PARC VE Team at the Joslyn Sr.Ctr, (behind City Hall) 111 Richmar Ave, San Marcos on the 2nd Sat. of the month at 1000 Hrs. Walk-ins are not encouraged. FCC 610 forms are available from Jo-KB6NMK at PARC meetings or from the FCC office in Kearny Mesa, 4542 Ruffner, 467-0549.

#### JUNE 8th

NONE->TECH: Bill Bennett, Fred Sage III, & Chuck Oldham (wow, now if he could only get a HAM callsign!)

NOVICE->TECH: Barbara Steinwedell  
NOVICE/TECH->GENERAL: Finley Bell III, John Jacobs, Maurice Monthei, Abel Goulart & Ron Miely

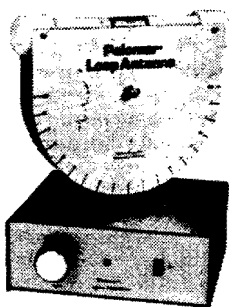
GENERAL->ADVANCED: William Steinwedell

CERTS ONLY: Wilbert Larson(1A), Harry Martin(4B), Kathleen Rector(3B) & Nicole Steinwedell(1A)  
VE TEAM: Mark-AA6TR, David AA6KY,



John-WR7W, Bob-KE6VX, Steve-N6RUV,  
Sam-W6YYV, Jack-K16JM, and of  
course, Rusty Massie-AA60M

## LOOP ANTENNA



Loops pick up far less noise than other antennas. And they can null out interference. Palomar brings you these features and more in a compact desktop package. The wideband amplifier with tuning control gives 20 dB gain. Plug-in loops have exclusive tilt feature for deep nulls. Loops are available for 10-40 kHz, 40-150 kHz, 150-550 kHz, 550-1600 kHz, 1600-5000 kHz and for 5-16 MHz.

Model LA-1 Loop Amplifier \$84.95. Plug-in Loops (specify range) \$69.95 each.

Add \$4 shipping/handling in U.S. and Canada. California residents add sales tax.



## RFI KIT

Use ferrite beads to keep RF out of your TV, stereo, telephone, etc. Kit includes one dozen beads, one dozen toroids 1/2" to 1 1/4" diameter, three "split beads" and our helpful RFI tip sheet. Everything needed to fix most RFI problems. \$15 + \$4 S&H U.S. and Canada. 7 1/4% tax in CA.

Free catalog and RFI tip sheet on request.

## PALOMAR ENGINEERS

Box 455, Escondido, CA 92033  
Phone: (619) 747-3343

Other SANDARC-VEC exams: 1st Sat. El Cajon, 3rd Normal Heights, 4th Chula Vista, & last Escondido ARS at Blind Center, 157 E. Villy Parkway.

We need another test site to replace the Joslyn Center site. Anyone have any ideas?

Applicants must send a SASE

(Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTO-COPIES) and copies of license(s) and certificate(s) of successful completion, if any, to SANDARC-VEC. PO Box 2446, La Mesa, CA 92044 10 days B4 the test date. Bring ORIGINALS of licenses & certificates. Questions: call SANDARC 465-EXAM.

FCC-issued call signs -

Extra	Advan	Tech/Gen	Novice
Nov	AA6YY	KK6SB	Out of KC60XZ
Feb	AB6AP	KK6VY	Out of KC6RJT
Mar	AB6BI	KK6XE	Out of KC6SFQ
Apr	AB6BS	KK6YI	Out of KC6TCJ
May	AB6CK	KM6AK	Out of KC6UQF

If one knew the exact effective dates of the above calls, you might be able to predict an applied for call. We tried to beat the end of the Tech "N" calls using a computer program I wrote and Linda received N6YYZ before they ran out of the series. de W9FQN

(re-run) The advent of the no code technician class, as well as greater numbers of other candidates, has prompted SANDARC to suggest that we recruit Advanced and Extra Class Volunteer Examineers. If you could donate two to four Saturday mornings per year to help test at the San Marcos test site, please contact me at the numbers below.

The requirements are only that you hold one of the above class licenses, don't have a conflict of interest such as working for a Ham equipment manufacturer, and have never had your license revoked.

There has also been some interest recently in forming a test group to test on Tuesday or Wednesday nights, probably in Poway. This may be a monthly or bi-monthly test session. If you would like to participate in this session, let me know.

de A A 6 0 M, Rusty Masse  
747-5872, 1249 Nordahl Rd, Esc92026

\*\*\*\*\*  
> G E N E R A L N E W S <

Art Baker-WA6MUW has been

appointed Assistant Emergency Coordinator for the Lawrence Welk area in the Northern District.

- BK -

We understand that Alma-KE6HI (HI HI) is more than pleased with her new antenna setup via Duane-WB6R. CW hams never die ...they just keep dashing along! And thanks Duane.

- BK -

Within the next year or so we will have new AA size cells rated at 1.2Ahr compared to the .5-.6Ahr Nicads that we now have. This will make the HTs run twice as long but then they will probably increase their power output negating the new cell. de QEX 5/91 & K6HAV ..Ralph, when are you coming back? Everyone is asking about you ..and Pat. When it was rumored that ur tower at ur Vista QTH was gone, several search parties were immediately formed ..it's still there ..also, SCOPE's ZIP is 92085-1603 and not 92025 (Escondido) ...how soon one forgets when they are having fun!

- BK -

Nice card from Leona Wallace, WA6OHB. She has relocated to Selma, CA, and has joined the Fresno ARC & Kings ARC in Hanford. Leona, we wish you the best of luck at your new QTH.

- BK -

The Queen Mary's radio room again contains an amateur radio station, W6RO, and the Australian time station, VNG, has moved to 16MHz which should be a good propagation indicator for DXers moving between the 14 and 18MHz bands. de ARRL Letter.

- BK -

In June '91 issue of QST there are several great articles: Baluns, Comparing dual band Hand-Held FM Transceivers, and stop TVI.

- BK -

The new FCC licenses are laser printed. These can smear so you might want to have them laminated for your wallet ..and signed?

- BK -

Nash-W6HCD's son, Gary, has been visiting him on vacation ..now if

Nash can just get him to get his license.

- BK -

Congratulations to Art Ridout-WA6IPD on receiving his final coordination papers for WA6IPD/R (146.175+) from TASMA. A copy of same is in PARC lockbox with other W6NWG/R coordination papers. (de W9FQN)

- BK -

(de ARRL)The FCC notes that aliens seeking reciprocal operating permits should obtain and complete FCC form 610-A, then return the form along with a photocopy of applicant's AR license to the FCC, POBox 1020, Gettysburg, PA 17326. In California they would use W6/(their call) except for Canadians who must use (their call)/W6 ...wonder why? (in voice "/" = "stroke" or "slant")

- BK -

One of the repeater groups that you can join here in San Diego Co. charges \$120 per year membership ...10x the Palomar ARC membership! Of course, their system allows you to talk on 2m to San Francisco but I don't know anyone in SF.

Our family (W9FQN-KA6FPS-N6QDB-N6YZZ) has a foreign student from Spain staying with us now until July 18th. She is from Basque country. We try to give them as many experiences as possible during their stay here in the USA and if any of you have any suggestions or have something planned that she possibly might be interested in, please let us know about it and we will see what can be worked out. She seems to be interested in all sports: tennis, bicycling, soccer, horses, camping, hiking, etc. So if your family is planning something interesting and could take along a guest, please contact us sometime soon. de W9FQN and family, 749-0276

- BK -

I understand that HRO has some ALINCO 2m Hand-held xcvrs for under \$200 with PL encode-decode and all the other goodies. I like my Alinco DJ-560T (2m-450) and Barbara-KA6FPS

likes her DR-590T (2m-450) with detachable head (xcvr) which sticks on the dash with the main transceiver unit hidden. The PL encode-decode features are great along with the private DTMF (touch tone-TT) coded squelch functions allowing her to call me with a TT code without me having to listen to the other traffic on the channel. For example, I can be 123\*1, Barbara 123\*2, Susan 123\*3, and Linda 123\*4. I can call them individually or all of them with 123 but I must confess, I am still reading the instructions on how to program the more basic items - oh for the days of a crystal rig and instructions not written by some Japaneese who got an "A" in English at some time in his career.

- BK -

We have such a large number of Spanish speakers in the club now that it would be possible to have a net sometime ..think about it.

- BK -

Years ago we used to devote time on Sunday evening for members to run RTTY and CW on the 146.73 repeater. I wonder if any group would have interest in doing this again and possibly checking to see if AMTOR could be used for contacts. If interested, contact W9FQN, and we will try to set up a time for you.

- BK -

Duane-AA6EE says he forgot three calls: AA6EE/VE7, AA23EE, and AA84EE. This brings his total to 13 with W6KTE way out in front with 23 and Dennis-N6KI third with nine.

- BK -

A Field Day planning session was held at W9FQN's QTH 4-26. Attending were Karl-N6WLX, Duane-WB6R, Art-K6XT, Orlando-N6QVW, Dennis-N6KI, Ken-KA5Q, Barbara-KA6FPS, David-AA6KY, Randy-WB6KYG, and Joyce-KC6TLW (observer). It appears that our stations will be (N6KI-20m SSB), (KZ6X-15-40m SSB), (K6XT-80-20-10m CW), (N6UZH-10m Novice-Tech), (W6YA-15-40m CW), (N6WLX-10-75m SSB), and (WB6KYG-VHF-UHF-Pkt) filling in as needed. We wish them the best of luck towards their 5,000 contacts!

- BK -

Nice letter de Charles-N6TEP who copied the Wed. Eve. code practice with his computer ..it did great on 13 & 20wpm with some problems at 5wpm & 40wpm. Errors at 40wpm could have been due to the tape recorder. I wonder if the computer could get a license?

June Butler, FCC Public Affairs office, says her new phone number is 619-467-0549. June spoke at our club "many moons" ago.

- BK -

\*\*\*\*\*  
> N E T S <  
146.73 W E E K L Y E V E N T S

1 M->S 2000 S.D.Co Traffic Net  
(except 1st Wed club meeting)  
MON 2100 Microwave Net  
TUE 2100 S. D. Pkt. Voice Net  
WED 2100 Code Practice Net  
THU 2100 Ham Help Net  
SUN 0830 PARC Emergency Service  
SUN 1000 Sailboaters check-in  
SUN 2100 A R E S Planning Net  
MON 1930 RACES Net on 147.195

#### O T H E R N E T S

The San Diego ANIMAL RESCUE NET meets on 147.130 during emergencies and has priority use of the frequency unless ARES has overflow and needs the autopatch. ARES has priority use of 146.730 during emergencies.

The RADIO AMATEUR COMMUNICATIONS EMERGENCY SERVICE (RACES) NET meets each Monday at 7:30pm on 147.195. Except for net nights, the RACES repeater uses a PL of 114.8 Hz but not for this net. Contact Frank-WB6HFE on the 8:30am Sunday net on 146.730 for more information about RACES.

#### D I S C L A I M E R S

Meetings at LINCOLN MIDDLE SCHOOL are NOT a function of the Vista Unified School Dist. & are NOT sanctioned by the school Dist. Board of Trustees. See!

Unless specifically stated to be club policy, opinions and statements

set forth herein do not necessarily represent club policy even though the president is the temporary Editor. Nor do they necessarily represent the opinions of the authors on other occasions or under different circumstances. The Editor further disclaims any knowledge of anything - real or imaginary. Verily.

You can copy anything out of the SCOPE you want as long as you give credit to THE PALOMAR AMATEUR RADIO CLUB, Inc., and author(s).

#####

FEDERAL COMMUNICATIONS COMMISSION  
June Butler, Public Affairs, FCC SDCO

4542 Ruffner St, Suite 370

San Diego, CA 92111-2216

467-0549 or FTS 895-5478

April 5, 1991

June indicates that she has a new telephone number.

John Kuivinen-WB6IQS has prepared a 19 page letter to the FCC in the matter of "Inquiry Into the Need to Preempt State and Local Laws

Concerning Amateur Operator Use Of Transceivers Capable of Reception Beyond the Amateur Service Frequency Allocations." This is relative to the FCC's PR Docket 91-36.

John "feels that the implementation of "scanner" laws will raise the cost of publicly available radio equipment and place legitimate Amateur Radio LService users at risk of criminal prosecution. The result is that legitimate operators, and the general public which rely on them, are harmed far more then the group for which these laws are intended."

This is an attempt to prevent Amateur Radio Operators from having their ham equipment, which can receive other frequencies, from being confiscated by the police simply because it is made so that it can receive other frequencies.

#####

> P O T P O U R R I <

PARC is a volunteer organization

and with Jo-KB6NMK taking care of membership and Bill-W6COU operating the "giant computer." With 425+ members it takes them each almost 7-10 hours to process all of the renewals so if you can pay for 2-3 years at one time we can make their job a little easier and cut down on the LAST MINUTE rush to get the membership lists in shape for the new club year starting August 1st. Jo is asking that when you pay your dues that you give her a check to help keep everyone honest. Jo keeps a card file on everyone with your basic information and Bill then enters the information into the computer.

PLEASE RENEW NOW!

- BK -

If you have a business and would like to advertise in the SCOPE, contact Jo-KB6NMK or Stan-W9FQN. Business cards are \$5/issue or \$40/page. Ads do not need to be about amateur radio related items - as you have probably noticed.

- 73 W 9 F Q N -

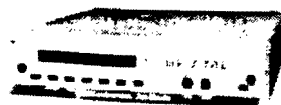
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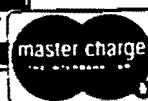
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**5375 KEARNY VILLA RD., SAN DIEGO**

Mail form WITH CHECK to PARC, P.O.Box 1603, Vita, CA 92085-1630 or hand your CHECK to Jo-KB6NMK at club meetings. Dues for old members are \$12 for 1st member and \$9 for each additional member. New members dues are:

1st Aug/Sep/Oct\$12.00;Nov\$9.00;Dec\$8.00;Jan\$7.00;Feb\$6.00;Mar\$5.00;Apr\$4.00;May\$3.00;Jun\$2.00;Jul\$1.00;Aug\$12  
2nd member + \$ 9.00 \$6.75 \$6.00 \$5.25 \$4.50 \$3.75 \$3.00 \$2.25 \$1.50 \$0.75 \$ 9  
Total = \$21.00 \$15.75 \$14.00 \$12.25 \$10.50 \$8.75 \$7.00 \$5.25 \$3.50 \$1.75 \$21

Telephone may be un-unlisted in roster if requested. Other info requested below may be omitted if you feel uncomfortable providing it to the club. Complete and cut on dashed line - or PHOTO COPY.

Call \_\_\_\_\_ Name \_\_\_\_\_  
License \_\_\_\_\_ Home \_\_\_\_\_  
Expires \_\_\_\_\_ Address \_\_\_\_\_  
License \_\_\_\_\_ 1st 5 \_\_\_\_\_ +4 \_\_\_\_\_  
Class \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ - \_\_\_\_\_  
Old Calls \_\_\_\_\_ Home Phone # \_\_\_\_\_ Work Phone # \_\_\_\_\_  
(ie., pg 8, D6)  
Year 1st licensed \_\_\_\_\_ Birth date \_\_\_\_\_ Thomas Brothers location, page # \_\_\_\_\_ coord \_\_\_\_\_  
Names & call of family members in PARC \_\_\_\_\_  
ARRL \_\_\_\_\_ RACES \_\_\_\_\_ ARES \_\_\_\_\_ Red Flag \_\_\_\_\_ Blood donor \_\_\_\_\_ Type \_\_\_\_\_ Comments : \_\_\_\_\_  
Interests: \_\_\_\_\_

Gives You the Key to San Diego

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----- dashed line -----

\*\*\*\*\*  
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\*\*\*\*\*

# NEWS

\*\*\*\*\*  
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SEE INSIDE FOR DETAILS:

## Membership Information

Ur last issue if (PRC9107) License  
Ph Codes This issue # -> (PRCyymm) Expiration  
Encin/Vista/Fallbr/ Normal PRC9107 LXyymm

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# Scope

W6NWX

Palomar Amateur Radio Club Inc.

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W6NWX/R => 146.730- 6 448.425-  
K8UAI/R 147.130+{Patches-2}

145.050(Pkt){NET/ROM NODE} W6NWX-1, "PALMAR"  
W6IPD/R 146.175+{Patch}

PARC 448.000(s)  
220 Club SD W6HFR/R 224.900-

VOL XXVI, NO. 8

AUGUST

1991

55 YEARS

August 7th meeting(1st Wed) is at the Carlsbad Safety Center in Carlsbad. Palomar Airport road to Camino Real, north to Faraday, east 1/4 mile to Safety Center on left. Thomas Bros. pg 14, F6.

## What you should know:

### H A M C A L E N D A R

Aug 1 Thu - Start new club Year  
DID YOU FORGET TO PAY YOUR DUES?  
THEY MUST BE IN BY AUG 15th  
THIS COULD BE UR LAST SCOPE IF  
YOUR LABEL READS PRC9107  
Aug 7 Wed - PARC Club Meeting  
at Carlsbad, FD Pictures Taken  
Aug 10 Sat - PARC VE Test, AA6DM  
New location:Carlsbad Safety Ctr  
Aug 15 Thu - PARC Executive Mtg.  
Aug 16-18 - NAS Miramar Air Show  
Aug 18 Sun - PARC Picnic/Prizes  
Aug 27 Tue - SCOPE in mail with  
with 90-91 club roster  
Sep 2 Mon - Labor Day  
Sep 14 Sat - NO PARC VE TESTING  
(Send calendar items to W9FQN)

### C O N T E N T S

Executive Meeting, del Pres . . 2  
Projects, SK-N6YMD, Thanks . . 3  
Picnic, Repeaters, Autopatch . 4  
Forsail . . . . . 5  
Wanted, Membership . . . . . 6  
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PARC Application, . . . . . 12

## LAST CLUB MEETING

The July 3rd program consisted of

Dennis-N6KI, FD whip with info on our excellent FD effort despite solar flares and loss of 10m; John-WB6IQS with info on and examples of various types of coax with handout tables; and Stan-W9FQN talking about the possibility of a new repeater building. An un-offical vote of those attending was for the executive committee to continue on gathering information, estimates, etc. which would be presented by the executive committee to the club at a later date.

Attending were 67 members and 6 guests (total 73) who enjoyed the coffee and goodies. 64% of those attending were ARRL members. Jim-KI6JM supervised the coffee in the absence of Art-KB6YHZ who has had other obligations on Wednesdays these past few months. THE GOODIE TABLE NEEDS GOODIES SO WHY NOT BRING SOMETHING FOR NEXT MEETING. Thanks.

## NEXT CLUB MEETING

Our next club meeting will be August 7th at 7:30pm in the Carlsbad Safety Center on Faraday street off of Camino Del Rey in Carlsbad. The program will be a short presentation on Emergency Volunteer Aviation Corps (EVAC) by Scottie-KH6TL and information on HANDI-HAMS. The

Carlsbad Safety Center facilities are NO.1 so plan on being there with us for another good meeting.

SHOW AND TELL will feature:  
1)whatever you bring in, &  
2)comments by Stan-W9FQN on the autopatch system(s).

## WANT to BE a HAM? (or Dial-a-Ham)

If you or a friend are interested in becoming an amateur radio operator and in joining the Club, please contact one of the following ELMERS for more information or use the application form on the back of this issue:

VALLEY CENTER . Stan Rohrer . W9FQN  
(President, Editor(temp) 749-0276)  
VISTA . . Jack Hanthorn . . KI6JM  
(Vice-President, 598-0420)  
BONSALL . . Nash Williams . . W6HCD  
(Secretary, 728-3574)  
CARLSBAD . Benton Caldwell . KK6LX  
(Treasurer, 729-5161)  
ESCONDIDO . . Jo Ashley . . KB6NMK  
(Membership Chairwoman, 741-2560)  
CARDIFF: Duane Stedman:WB6R:753-4821  
CARLSBAD:EleanoreCall:N6QJE:729-0850  
DEL MAR:GerrySanford:KC6BJM:755-5244  
ENCINITAS:DaveCopley:WA6HQM:753-2605  
FALLBROOK:Artrideout:WA6IPD:728-6834  
La MESA: Roger Jaffe: N6UWU:697-6025

LEUCADIA: Bud Lincoln:KG6VX:436-9983  
 LinVistaPaulWilliamsonKB5MU:571-8585  
 MIRA MESA: Ron Earl: W6TXK:566-1959  
 OCEANSIDE:LarryGugle:KC6PEN:439-4109  
 OCEANSIDE: Lloyd Hunt:W6TFB:757-9374  
 PAUMA-PALA:Mark Ross:KC6CZO:742-1539  
 PointLom:MickMcDaniel:W6FGE:222-3912  
 POWAY:MarkSchlesinger:N6NNI:748-8391  
 RAMONA: Vernon Leming:AA6UU:789-3070  
 RanchoPen:John Tentor:W60LQ:672-3891  
 RanchoS.Fe:RonWilhelmy:W16B:756-3133  
 S.D.:Dennis Vernacchia:N6KI:271-6079  
 SanMARCOS:FloydHarvey:W6JSP:741-8391  
 SanMARCOS:RustyMassie:AA60M:747-5872  
 SolanaBe:LouBroadbent:N6CKQ:755-9179  
 Vista: Jerry Houser: WB6FMT:758-4388

for two 450MHz filters.

IN ATTENDANCE: (officers) Stan-W9FQN, Jack-KI6JM, Nash-W6HCD, and Benton-KK6LX; with John-WB6IQS (Technical) and Jo-KB6NMK (Membership). The July meeting was at Stan-W9FQN's QTH and we all enjoyed the cake provided by Barbara-KA6FPS. The August 15th meeting will be at Jack-KI6JM's QTH.

\*\*\*\*\*  
 > del P R E S I D E N T E #5 <  
 (after #5 comes #4!)  
 (and temporary editor)

The club in an informal vote indicated at the July meeting that the Executive Committee should continue looking into the possibility of building a new bunker on Palomar Mountain. The following committees are presently functioning gathering information for the membership's consideration at some future date:

#### CONSTRUCTION

KC6PAS, Jim Kirkes, drawings  
 KB6YHZ, Art Nye, pre-est  
 KK6LX, Benton Caldwell, finance

#### REVIEW OF INTERIOR

WB6FMT, Jerry Hauser, general  
 W9FQN, Stan Rohrer, general  
 WB6IQS, John Kuivinen, general  
 NU6L, Joe Contogenis, electrical  
 KB6MCU, Bill Smith, general  
 WA6QQQ, Bob Gonsett, general

#### COMMITTEES NEEDED

Foundation, Racks, Digging,  
 Forms, Blocks, Cement, Roof,  
 \_\_\_\_\_?\_\_\_\_\_, \_\_\_\_\_?\_\_\_\_\_, \_\_\_\_\_?\_\_\_\_\_

If you can help in anyway, please contact a club officer. WE DO NEED YOUR HELP. This is an excellent opportunity for those of you who use the repeaters and have never been to the site to help out with an important club project.

- BK -

Club membership is at an all time high with 443 members which exceeds last year's 400 at the end of the club year in July. We would like to think that our growth is due to our involvement in: club programs, nets,

repeaters, VE program, supporting Ham radio, autopatches, Field Day, and a friendly environment in which to pursue your hobby.

If we are not meeting your needs, please contact a club officer and express your concerns to them.

The SEPTEMBER issue of the SCOPE will contain the 90-91 club roster so you won't receive the roster unless you are a 91-92 club member! Sign up NOW.

There will be NO VE TEST session at the Carlsbad Safety Center by PARC in September since the test site is not available.

- BK -

We would like to welcome two new club members who are also new advertisers in the SCOPE. Loyal Hanson-W9WV is a registered patent attorney who works with patents, trademarks, and related matters. His office is in Fallbrook. Another advertiser is my former student ('62) who is also a patent attorney, Hugh-W4ESQ. He used to work for the FCC and the Patent Office in Washington, DC. "FRENCHIE", Diane Hanson-KB6TVZ and W9WV's XYL, does copywriting, dubbing or subtitles, editing, interpreting, paralegal, proofreading, researching, transcribing, translating, voiceovers, and writing services ..there is really more but it would take up several pages.

Another new advertiser is Joey-NU6L who has been doing electrical work in SD Co. for ages and is helping the club with a project in the repeater bunker on Palomar Mountain. Joey is a fierce competitor on the tennis court and always gives me troubles ..he never gives up and he runs for everything so I suspect he works the same way.

REMEMBER that advertisers in the SCOPE help keep our dues at \$12 when other clubs are raising their dues ..which were already higher than ours. Be sure to mention that you "SAW THEIR AD IN THE SCOPE."

- BK -

Because I am using an old computer, TRS-80 Model IV, I have to

## FRENCHIE™

DIANE HANSON  
 833-A South Main Street, #439  
 Fallbrook, California 92028  
 United States

PHONE: 619/723-7698  
 FAX: 619/723-3518

### FRENCHIE

is a service mark of DIANE HANSON  
 for Copywriting, Dubbing or subtitles,  
 Editing, Interpreting (by telephone or  
 in person), Paralegal, Proofreading,  
 Researching, Transcribing, Translating,  
 Voiceovers, Writing Services

## KB6TVZ

### EXECUTIVE MEETING

7-12-91 DISCUSSED: \$\$, programs, nomination committee, SANDARC's problems, Del Mar Fair, K6HAV, Repeater book errors, N6IE, FD, VE program probs, picnic, end of yr probs, NU6L wiring at bunker, new ads, new bunker program, and ATV in the bunker.

APPROVED: next exec mtg at KI6JM's QTH, Spanish net on .73, FD bills, \$20 FD photos, \$30 VE program, picnic Ham \$30 & \$300 prizes, <\$150 WB6FMT autopatch project & \$5.06 phone charges for 3 months, & \$320

use a shell containing over 60 files for the printing of the SCOPE which are called up one by one for printing.

- BK -

Letters sent to me should be addressed to 30311 Circle R Lane, Valley Center, CA 92082-9423 preventing a 15 day delay when sent through the club's address in Vista.

- BK -

Stan W9FQN



AROUND THE WORLD OR AROUND TOWN  
FULL-SERVICE TRAVEL PLANNING  
- N6RAO -

LOREEN WILHELMY

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TRAVEL VISIONS  
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# PROJECTS

The club has some of the following projects which need workers, directors, and/or parts:

NEW REPEATER BUNKER: planning, wood work, roof, foundation, wiring, doors, blocks, rebar, finance, etc. If the club decides to tackle the project, we will need lots of general purpose help.

AUTOPATCHS JERRY WB6FMT: help with antennas (3hrs) and construction of modular boards (5-8hrs).

PACKET: install extra ports to W6NWG-1, 1)450 high speed port (10 hrs), 2)10m HF port (est 10 hrs). Need some knowledge of packet and/or 450/10.

GENERATOR: mount 3.5KW AC gas generator to a cement base at the repeater site on Palomar Mountain (estimated time 2-4 hours). The generator can be controlled from the valley floor by touch tones with our control system.

HOUSE TRAILER: needs painting inside and outside 3-4 hours with 3-4 people. Mount 35' portable mast to trailer (estimate 2 hours).

PUBLICITY: membership, brochures, newspapers, new amateurs, etc.

ALARM SYSTEM: update alarm system to ALL outside buildings (est 3hrs) and expand the reporting system.

TOWER CLIMBERS: need members who can climb our 70' tower on Palomar Mt to check antennas and coax before winter sets in (est 3hrs). We have 1.5 climbers and need 2.0 more.

If you can help, please contact one of the club officers.

+++++ SK +++++  
+ - N 6 Y M D - +  
+ +  
+ Joe Lepine passed away July 15. +  
+ He had a great interest in Ham +  
+ radio and he left many projects +  
+ unfinished. He will be greatly +  
+ missed by those who knew him +  
+++++ SK +++++

## RE M I N D E R

If your mailing label indicates PRC9107, then this is your LAST issue of the SCOPE and it is time to renew your membership immediately.

## N E W S L E T T E R H E L P E R S

- August 1991 SCOPE -

Members, Ads, Label, JoAshley .. KB6NMK  
Membership Data, Bill Whipple N6COU  
Billing Ad, etc, John Tentor . W6OLQ  
Folding/Staples, Jack Hanthorn KI6JM  
also provided QTH & refreshments  
Folding/Staples, Lloyd Hunt .. W6TFB  
Folding/Staples, Bill Whipple N6COU  
also roster and label printing  
Sorting/Labels, Benton Caldwell KK6LX  
Printing/Forms, Stan Rohrer . W9FQN

Printed 490 Mailed 456

Without these people life would certainly be difficult. THANKS!!

# RECOGNITION of

(thanks)

Duane-WB6R for helping out a new ham, David-KC6VMR, with his 2m antenna problems.

- BK -

Carl-N6NZX for making a phone call using the autopatch while he was on his seven mile "hike" out in the "Hell-Hole" area of Valley Center (Indian Reservation) to report a fire. Carl works for the "water company" and walks 7-10 miles a day along the open irrigation ditch from Lake Henshaw to Escondido. Sometimes you are walking on a six inch path with water on one side and 100-200' drop off on the other side ..forgot to mention the rattle snakes! (Susana (de Spain) and I walked with Carl one day along the ditch which passes thru the La Jolla and Rincon Indian reservations and met Mary-N6NZA at the other end)

- BK -

One of the club's strong supporters from the El Cajon area has been Mac-WB6GXR who attends many of our club meetings. Mac sent us some Field Day pictures which we will add to our collection of FD 1991. The FD pictures taken by club members is greatly appreciated and will be used to "explain" what needs to be done on future Field Days. We can also use them at the Del Mar Fair and for public demonstrations of amateur radio.

- BK -

Many thanks to club members staffing the Del Mar Fair SANDARC amateur radio booth: Roger-N6UUV, Jack-KI6JM, David-AA6KY, Henry-W8OYCQ, Joyce-KC6TLW, Phil-KC6OEI, Dennis-N6KI, John-N6SMW, Don-WD6FWE, Ed-K6ICG, Judy Sullivan, Bill-N6FMK Stan-W9FQN, Paul-KB5MU, Barbara-KA6FPS, Joe-N6YMD, & John-W6OLQ. Your efforts were greatly appreciated.

#####

## P I C N I C



PARC's annual picnic will again be at Dixon Lake to the north-east of Escondido. Leave I-15 going north out of Escondido, east on El Norte Parkway, north on La Honda, enter park (\$1/car) to main concession building and Manzanita shelter. Look for cars with antennas. Bring folding chairs.

PARC will furnish a ham, punch, plates, and utensils. You should bring by last name: (A-G) hot dish, (H-O) salad, and (P-Z) desert (or??).

We will again start at 10am with activities in the following areas:

Direction Finding instruction  
SWR of antennas demonstration  
Autopatch info/instruction  
Packet demonstration

CW speed contest, DFing with a HT

Our noon meal will begin at 12:00 with the drawing for the prizes (\$\$\$) at 1pm.

TICKET RULES: 1) Each 91'-92' club member will receive one drawing ticket for each meeting he attended in 90'-91', Field Day, last Picnic, and for Sweepstakes. 2) tickets can be picked up at the August club meeting or at the picnic, 3) you must be a member for the year 91'-92', 4) you must be present to pick up your tickets and prizes or have a representative do it for you with YOUR WRITTEN SIGNED PERMISSION.

#####

&gt; R E P E A T E R S, etc. &lt;

TECHNICAL: John Kuivinen.....WB6IQS  
- - TRUSTEES - -

W6NWG/R: Ron Wilhelmy ...WI6B->  
146.730(-) and 449.425(-)

145.05(s)pkt W6NWG-1 or PALMAR  
KA6UAI/R: Erik Thompson, 147.130(+)  
WA6IPD/R: Art Rideout, 146.175(+)  
WD6HFR/R: Ron Berger-NE6T, 224.900(-)  
(All CTCSS(PL) tones are 107.2Hz)

(7-7) John-WB6IQS and Joe-NU6L surveyed the repeater bunker and battery shed for electrical wiring that needs to be completed this summer. John made a report to the

executive committee who then approved the proposed work.

(7-13) Stan-W9FQN went to the bunker to make measurements and add 2.3gal of distilled water to the 3,300Ahr battery bank (14-3501b batteries) which brought their level just up above the "low" mark. A visit was made to the QTH of Jim-KC6PAS and Diane-KC6PAP where we looked at Jim's HP drawing of the new bunker and Diane served some delicious cold tea which really hit the spot.

(7-26) Joe-NU6L, Stan-W9FQN, and Brandon-(no ticket) went to the site to add double breakers to the distribution box and to locate space for the new autopatch link equipment. Afterwards we all went to visit Mike-KC6KCQ at the Observatory and got a free ride on the dome.

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Agent

TIM HOY -KI6GI-



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La Mesa, CA 92041

A U T O P A T C H E S on 147.130  
KA6UAI/R: Erik Thompson KA6UAI #1  
ENCINITAS + surrounding towns  
KA6UAI/R: Jerry Houser WB6FMT #2  
VISTA + the surrounding towns  
KA6UAI/R: Dennis Vernacchia N6KI #3  
SAN DIEGO, activated Fall of '91?  
KA6UAI/R: Kerry Banke N6IZW #5  
LA MESA, activated Fall of '91?

A U T O P A T C H on 146.175  
WA6IPD/R: Art Rideout WA6IPD #4  
FALLBROOK + surrounding towns

For specific information on the autopatches please contact W9FQN, WB6FMT, WA6IPD, or KA6UAI.

- BK -

## Patents

## Trademarks

## Copyrights

"Mac" - W9WV

LOYAL M. HANSON  
Registered U.S. Patent Attorney  
Fallbrook 723-0620



For ALL autopatches say-

"	BK	-	BK	-	BK	"
*XY	(749-0276)	talk	N6YZZ			
(tone)			CLEAR			
N6YZZ			PATCH			
ACCESS PATCH			(tone)#XY			



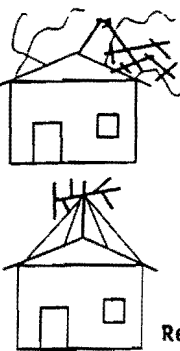
The " " in example above indicates your "push-to-talk" pushed and "XY" is obtained from a club officer or de your personalized address label on the front of YOUR SCOPE.

Jerry-WB6FMT has the new autopatch system progressing nicely. Projected time table follows:  
July - Palomar Mt link transmitter & receiver operational & TESTED  
Aug - New Vista patch constructed  
Sept - System TEST 449.425(?146.73)  
Oct - System TEST 449.425/146.730  
New La Mesa patch tested  
Nov - New Mira Mesa/SD patch tested  
Jan - 147.13/?224.9 added  
(schedule to be updated each month)



Soon you will (we hope) be able to get ALL patches from ALL PARC repeaters (Vista, S.D./Mira Mesa, & La Mesa for 95% of the county.)

When the NEW AUTOPATCHES go into operation there will be a CHANGE IN ACCESS CODES so watch your address label for the new codes. If you think the old codes were a pain, wait till you see the NEW ONES!



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, Interference Resolution Edward Ross

542-1405

N6GZI

# Antenna Specialties



\*\*\*\*\*  
FOR SAIL - <

If you have an item for sale, bring it to the SALE TABLE at the club meetings, tagged with name, call and minimum price, if any. The Club takes 10% and you go home with \$\$ . PARC takes NO % on the ads below and they ARE FREE TO CLUB MEMBERS. The month of first being run is indicated by date at the beginning of the ad. PLEASE tell us when the item(s) are sold.

Deadline FORSAIL items is the 15th of the month addressed to the temporary editor at his home address: 30311 Circle R Ln, V.C., CA 92082-9423 or call 749-0276. Late items will appear the following month.

SILENT KEY'S ESTATES: A club member is appointed by the PARC

executive committee to handle each individual station with initial contact by Eleanore-N6QJE and pricing of equipment being done by a PARC committee headed by Dennis-N6KI. Announcements of Silent Keys in the SCOPE is done only after PARC contact with the family.

MEMBER'S FREE ADS are for the sale of their own used personal equipment, or for the sale of approved PARC Silent Key Estates (which must be so designated in the ad.) Sale of new items or other items incidental to a commercial operation should be done through the purchase of a PARC paid ad with the exception of items offered by PARC.

SWAPMEETS: Dennis-N6KI (price\$); John-WB6IQS (VHF, UHF, Hardline); Kerry-N6IZW (Microwave & test equipment); Paul-KB5MU (Pkt, Computers); and Bill-KB6MCU (ATV).

- BK -

(7-27)mint mod YH55 8ohm Yaesu headphones \$12: Dan-WA6HYB-433-4445-0csd.

- BK -

(7-24)recently acquired old radio manuals w/schematics of all radios 1930-34 ..will share info; 200 series tubes, '32 Official Radio Service Guides Vol#2-4 '31-34: Joe-W6HLB-619-757-1272-0csd.

- BK -

(7-13)Apple-Macintosh mod LC computer with MAC 12" RGB color monitor, Apple-Mac style-writer printer(dot) all nearly new w/accessories - call for package deal; IBM Selectric II typewriter \$150: Allen-N7AMR-434-5656-Carlsbad.

- BK -

(7-13)R.F.Labs GM solid state amp mod V76 (120w out) \$250; ICOM pwr sup PS-15/20A new cond \$125; Astro pwr sup,PS-RS4A new \$35; Yaesu FT-726R 2m + 6M + 430 & satellite xcvr YM-48 mic, spk console audio filters, SP-102, ex cond \$1,250; E1 Key paddel \$30; B&W coax sw 5 pos mod 550-A \$20; B&W sw mod 594 \$20; J.W. Miller coax sw 2 pos mod KS-002 \$15; Hustler Fiberglass mast 54" \$20; mobile bumper mt w/ball-spring \$30; Ten-Tec Mobile ant mod 3101 15M

\$20, mod 3100 20m \$20; Hustler resonator RM-75 new cond \$20, RM-17 new cond \$15; Hal Comm Keyer mod 1550 \$50: Krist-W6KTE-941-3555-Vista.

- BK -

(7-12)Swan 500 CX xcvr (Clint's old Swan) re-conditioned by Herb Johnson, with 110vac pwr and 12vdc inverter \$475: Eleanore-N6QJE-729-0850-Carlsbad.

- BK -

(7-12)Tempo-1 xcvr 80-10m AM-CW-SSB 100w gud cond w/pwr spkr + Yaesu mic, 15m dipole + bauln, 100' RG-213 coax \$250: Mark-AA6TR-944-0145-Carlsbad

- BK -

(7-4)700' RG-8 52 ohm coax 30c/ft: Jim-KA60LZ-434-2722-Carlsbad.

- BK -

(7-4)Complete HF home/mobile (almost antique); Gonset GSB-100; GSB-101 Amp 1.2KW; Hallicrafters SX-111 rcvr; Heathkit LHW-32 20m xcvr w/DC PS repairable & HP-23 PS ALSO POWERS GSB-100; non-mint; discount to seniors or juniors; reasonable priced to good home; extra tubes; be only ham on ur block to own such gear; Jack-KI6JM-598-0420.

- BK -

(6-29-)Commodore 1526 printer, 1541 hard drive, C64, pwr supply, PK64 with HF modem, manuals, programs, like new \$285: Joe-NU6L-749-2699-Valley Center.

- BK -

(6-23)Kenwood TM-TS-700(SP) service manual \$3; Ringo Rangers, 2m, 220 :PARC-Hillside-Electronics-W9FQN-749-0276-VillyCtr

- BK -

(6-23)Like new Kenwood mobile (used as a base) TM-2570 5-70w 2m FM xcvr with mic, digital coded squelch (DCL), PL's, telephone number memory, call letter transmission & reception, and a cute little Japanese lady who has been taught to speak the frequency in English (MC-42S, MU-1, TU-7, & VS-1) \$500 (new \$850) (converting to dualbanders): Stan-W9FQN-749-0276-VC. (Seventy watts will help fill in those transmitting mobile "holes" in

south county.)

- BK -

(6-18)Tempo One HF xcvr \$125; Sure 444 mike \$25; MFJ 815B combination SWR & wattmeter \$45; Duane-AA6EE-eves-789-3674-Ramona.

- BK -

(6-16)Hustler mobile mast 75-40-20-15-10 resonators \$90; 2m 3el beam \$15; 35' tubular crankup mast for big beam (needs cable); 3-el hy-gain 3-band thunderbird beam (needs some bolts) and other items too numerous to mention: Stan-W9FQN-749-0276-VC & Duane-WB6R-753-4821-Cardiff for Doug-WA6SVN

- BK -

(6-10)20->40' crankup-fold-over tubular mast for tribander \$200: Phil-WF6L-757-7008-Oceanslide.

- BK -

(5-27)21' vertical antenna 18AVT-WB (wide band) 80-10m 52 ohm \$75; 1w AM BC xmtr can be converted to 160-40m, schematic, case, meters, mic, used as PA system in hotel, \$50: Ray-W6BHF-487-4423-Poway.

- BK -

(6-6)Antenna Specialist Omni/directional "Super Scanner" for 27MHz (can trim to 28MHz) w/telescoping mast, console control, manual, \$35: Bill-N6COU-758-7163.

- BK -

(5-4)50' Rohn TOWER 56H (non-tubular): (Past PARC Pres) Ed-N6GZI-297-7758-S.D.

- BK -

(4-22)Corsaire II Ten Tech xcvr 80-10m 100w 4yrs old, \$\$\$; and other HOT items: Felix-N6IE-277-8587-SD

- BK -

(4-18)HEATHKITS SB-221 HFamp 1KWcw 2KWssb w/manual \$225; IG-102 RF SigGen 100KHz-220MHz 2/man \$35; EICO 232 VTVM 2/man \$35; CHUSHCRAFT 10-3CD 3el 10m beam w/man \$65; ASTATIC D-104 mic w/stand and amp inop. \$25: Eric-XE2/KB6EP0-82-02-83-Tijuana, WANTED-TRADE for R-5 vertical ant.

- BK -

(4-15)Collins 75S3 W/E mint \$475; Collins Amp 30L-1 R/E \$600; Estatic D-104 mic new \$45; Bearcat 220 scanner \$150; Alan-N7AMR-434-5656-Carlsbad.

**Incredible Prices!**

- BK -

W A N T E D

(7-26)want 2m beam 8el or larger and 7Amp or greater 12VDC pwr supply: Lee-NOLYW-586-1111-SD.

- BK -

(7-22)Just received license and want older 2m mobile rig: Bill-KC6Y0X-729-6787-Carlsbad.

- BK -

---  
 \$\$ W A N T T O B U Y \$\$  
 \$ Q S T C Q 7 3 & H R \$  
 \$ magazines \$  
 \$\$ from 1970 to present \$\$  
 ---

also need

the name of someone who is familiar with the construction of NI-CAD battery packs from 1970 to present  
 Contact Stan W 9 F Q N  
 749-0276 pd ad  
 for Hugh Jaeger-W4ESQ

---  
 (7-25)need old THOMAS Bros map books to be used to construct direction finding maps of San Diego Co. especially pages 400-409; Old tape recorders (3) that can be used with the new autopatches; Old tape answering machine(s) to be used in a PARC information service for new hams and prospective amateurs: PARC-W6NWG-W9FQN-749-0276

- BK -

(7-4)In 1951 I was the "fist" on 3 code albums made & marketed by Electronic Tech. Inst. in LA. "Loaned" my set ..never got them back. Would like to locate some of these records (copy/buy) for sentimental reasons: Floyd-1545-Raymond-Ave-Glendale-CA-91201-818-242-8961.

- BK -

(6-18)2m xcvr, HF mobile ant, digital voltmeter, Heath QRP xcvr; monoband beams; HF xcvr for Novice: Duane-AA6EE-789-3674-Ramona.

- BK -

(6-6)For blind amateur, WA3EUL, Johnson Rnager or Eico 720/730 combination with VFO: Art-WA6IPD-2235 Gum Tree Ln, Fallbrook 92028, 728-6834

- BK -

R E M I N D E R

If your mailing label indicates PRC9107, then this is your LAST issue of the SCOPE and it is time to renew your membership immediately.

LARRY E. GUGLE

-KC6PEN-

STCR REPAIR SHOP

Sarge's Two-way Communications  
 Repair (619) 439-4109  
 50% OFF Labor to PARC members

Business Lic.#500021, USMC (Ret)  
 PARC member

25 years communications equipment maintenance experience for the USMC. Specializing in HF & VHF Transceiver & RF power amplifier repairs by appointment.

\*\*\*\*\*  
 > M E M B E R S H I P <

Membership is now in excess of 443 members!

RENEW: N6WSW, KK6RX, K6ICG, KF6RX, KB6MCU, KB5MU, KD6WQ, N6OPD, W6LCT, W6IZS, KC6VNA (EX KA3LYI), AA6TR, KC6PRH, NC6J, WB6RTY, N6MYN, KK6CD, K6MHG, W6NBH, N6YX, N6OSR, N6UWW, N6GZ, W6JSP, WB9RKN, WB6YLT, W6JRQ, N6ICH, WA6MOS, W6BHF, W6HLB, WA6DYV, N6KV6, N6GW, W6UAL, W6IZK, W6OML, N6RVO, N9AKB, KB6DSC, N6COU, KK6CA, N6QVW, N6UZH, KC6PAS, KC6PAR, KB6NMK, KB6NML, N6PDZ, N6PEA, KB6NZA, N6NZX, KB6YHY, KB6YHZ, N6RHS, WB6R, KA6OLZ, KA6OMA, KE6HI.

TWO YEARS -> N6ZJV, KC6Q0J, N6TEP, WH6BLZ, KC6KPB, WB6CSH, N6QQF, AA6UQ, WB6IOV, N6YMD, KK6TV, W6HTT.

THREE YEARS -> WB6HFE, WA6MUW, WA6QBO, N6WQR.

TEN YEARS -> Bob Gonsett WA6QQQ, and TEN+ YEARS Felix Ferranto N6IE.

Felix thinks this is close to a LIFE membership for him!

NEW: KC6RPF Paul Cariaga SD; N6BA Mac McCullough Carlsbad; KC6QJW Marilyn Bredimus SD; AE2U Mike Bredimus SD.

NEW CALL: Associate Ralph Powell is now KC6WAN. NEW ASSOCIATE: Jay Henderson San Marcos.

A special thanks for those renewing for 2-3yrs ..or more. It really helps our overworked highly paid staff.

Herb-WA6IWK is interested in boating and camping; John-WB6RTY likes antique radios; Ray-W6IZS likes 40 CW; and Larry-KC6PRH likes antenna construction.

In San Diego County we are sorry to announce the passing of Hal Crispell, W6TZV, who did extensive research on EMI.

#####  
< FOR NEW HAMS >  
(and some old hams)

FCC rules indicate that you need to identify each 10 minutes and at the end of your transmissions. The Palomar ARC would like to have you IDENTIFY at the BEGINNING of your FIRST transmission so that control operators and other club members don't have to wait 10 minutes to find out who is talking. If you own your own repeater, you can do as you wish! If you are on the Palomar ARC repeaters, PLEASE ANNOUNCE YOUR CALL IMMEDIATELY UPON ENTERING A CONVERSATION OR CONTACT. You must also identify BEFORE using the autopatches AND BEFORE closing them down. Some new HAMS are picking up bad habits from some older HAMS.

- BK -

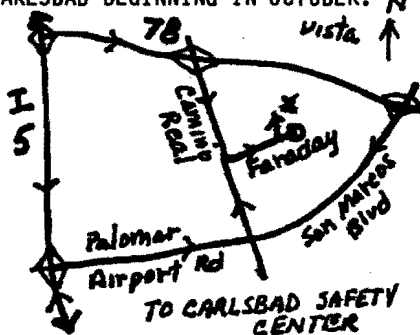
When making a call, don't say "N6QDB this is N6YZZ - are you there Susan?" If N6QDB is there, she will answer so you don't need anything more. Keep your calls to the point and short. It is not necessary to make several calls one after another since you will be heard if your party is listening. Space the calls 4-5min apart. This is not SSB HF!

Anyone wishing to add to this section of the SCOPE should send their material or ideas to the temporary editor.

#####  
< P A R C V E T E S T I N G >

FCC LICENSE EXAMS in N.County are conducted by the PARC VE Team at the Carlsbad Safety Center in Carlsbad (Camino Real -> Faraday, 14F6) on the 2nd Sat. of the month at 1000 Hrs. Walk-ins are not encouraged. FCC 610 forms are available from Jo-KB6NMK at PARC meetings or from the FCC office in Kearny Mesa, 4542 Ruffner, 467-0549.

REPEAT! AUGUST VE EXAM WILL BE AT CARLSBAD SAFETY CENTER. NO PARC EXAM IN SEPTEMBER BUT WE WILL BE IN CARLSBAD BEGINNING IN OCTOBER.



Other SANDARC-VEC exams: 1st Sat. El Cajon, 3rd Normal Heights, 4th Chula Vista, & 1st Escondido ARS at Blind Center, 157 E.Villy Parkway.

Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTO-COPIES) and copies of license(s) and certificate(s) of successful completion, if any, to SANDARC-VEC. PO Box 2446, La Mesa, CA 91943 10 days B4 the test date. Bring ORIGINALS of licenses & certificates. Questions: call SANDARC 465-EXAM.

JULY 13th

NONE->TECH: James Henderson, Jeffrey Hughes, Gregory Oberle, James Hicke, Tom Kadien, Richard Ritter Jr.

NOVICE->TECH: Nicole Steinwedell.  
NOVICE/TECH->GENERAL: Lewis

Engle, Charles Huey.

GENERAL->ADVANCED: Robert Jones.

CERTS ONLY: Christopher Allen (3B), Benton Caldwell (4B), Joe Lepine (3B), Joan Oberle (2), & Charles Stalheber Sr. (2).

VE TEAM: KB5MU-Paul Williamson, KK6IL-John Kolb, W6TFB-Lloyd Hunt, KI6JM-Jack Hanthorn, AA6KY-David Dutcher, AA6UQ-Jack Newlove, & WB6R-Duane Steadman.

de A A 6 0 M, Rusty Masse  
747-5872, 1249 Nordahl Rd, Esc92026

#####  
> G E N E R A L N E W S <

Buck-WW6E and Mary-N6NOG were at our last meeting on a short visit to the San Diego area from the Peroria, OK area.

- BK -

(ARRL Ltr) U.S. amateurs are reminded that in order to operate from Canada all that is required is to carry one's original FCC license, sign portable, and observe U.S. band and mode restrictions. No advance written permission is necessary. (It is possible that Mexico operation will be the same way within the next few months! -Ed)

- BK -

Henry-WB0YCQ reports talking to Bill-K6GJD (Good-Jack-Daniels) in AZ on 28.340 and wanted to say "Hello" to his friends in PARC.

- BK -

The Ramona Outback Amateur Radio Society (ROARS) operates a bulletin board on 145.09 (Pkt). They also put out an interesting Newsletter which carries a lot of emergency service information.

- BK -

ARRL LETTER: FCC WARC recommendations include improved 40-meter band for amateurs ..see QST; FCC noted 57th anniversary June 19th ('34); amateur faces \$100,000 bail, 15yr in prison, and \$500,000 fine; contact W9FQN if you have amateur radio memories of the days before and after Dec 7, 1941 for possible QST publication.

- BK -

The San Diego County Amateur Radio Council (SANDARC) of which we are a member has been having its troubles the past year or so. It first started with the losing of money on the ARRL San Diego Convention due to fewer hams showing up than expected. Then the capital money invested some time ago apparently was not spread around and a \$42,600 investment turned into a \$7,600 loss when the money was withdrawn before the firm went "belly-up." On 10-25-90 SANDARC's balance Capital was \$48,549.50 and on 6-27-91 was \$31,002.29. A special committee has been appointed to look into these problems. SANDARC's constitution limits the council to only spending the interest on its capital so reduced capital and interest will limit SANDARC's spending ability.



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**NU6L**



#####

< ARRL SECTION MANAGER's REPORT >

de Art Smith, W6INI

DEPT of FORESTRY's RED FLAG PATROL

How did the Amateur Radio Emergency Service (ARES) become involved with the California Department of Forestry's Red Flag Patrol?

At a SANDRA meeting in June,

1976, a program was presented by the San Diego Ranger Unit Fire Prevention Chief, Doug Allen. This was CDF's introduction to Amateur Radio and vice versa. Chief Allen pointed out the need for volunteers with reliable radio communications to patrol critical areas during Red Flag Alerts.

The Red Flag Patrol is a fire prevention program which is implemented when weather conditions present an EXTREME FIRE HAZARD in the wildland areas - usually occurring during Santa Anas when hot weather, low humidity, high northeasterly winds, and low fuel moisture exist. Patrol objectives are to: (1) identify and report situations that may cause fires, (2) serve as a deterrent to arsonists, (3) report fires in their incipient stages, and (4) after reporting, extinguish very small fires. The occurrence of fires, whether major or minor, do not necessarily signify the need for Red Flag Patrols. It is determined by severe weather conditions. Patrol routes are in the Ramona, Lakeside, Harbison Cyn, Alpine, Fallbrook, Escondido and Valley Center areas.

A week after the June meeting, the first call came to assist CDF with special Red Flag Patrols in the Santee/Lakeside area after a series of arson fires had plagued the area for several days. For four days, with temperatures over 100 degrees, operators covered the area by ground and air. Fires continued intermittently throughout the period, but on the fourth day, Bob Frye, W6JWU, spotted the arsonist. CDF fire prevention officers immediately surrounded the area and arrested the culprit.

Since then eight to ten patrol routes have been covered regularly during each fire season.

If you like action, this program is for you. Volunteers must be over 18 years of age and will be registered in the Volunteers in Prevention (VIP) program. When assigned by a CDF official to Red

Flag Patrol, they become volunteer employees of the State of California with workers' compensation protection. Patrol vehicles must have two persons - driver and observer. Only one needs to be a licensed Amateur Radio operator (Tech or higher) with 2-meter or 220MHz 25w mobile in vehicle (no HTs!). The second person may be unlicensed or hold a Novice Class license. Here's a chance to get your spouse or a friend involved with you. Classroom and/or on-the-job training is provided.

In the past, the headquarters stations (at Monte Vista) required the assigned operators to bring their own equipment. Recently the Amateur Radio Club of El Cajon provided a 2-meter radio and SANDRA a 220 radio which could remain at the headquarters facilitating operation.

The coming fire season is expected to be severe and it takes a good many operators to sustain operations over several days. There's room for you! Contact me at 273-1120 or on 146.265(-) at 1900 Sundays to sign up.

#####  
> FIELD DAY 1991 <  
de Dennis - N6KI

WE WOULD LIKE TO HAVE EVERYONE WHO PARTICIPATED IN FIELD DAY TO COME TO THE CARLSBAD SAFETY CENTER AUGUST 7TH FOR FD PICTURES TO SEND TO THE ARRL. We will also have some more pictures of Field Day for you to look at.

Below are some of the stats on FD 91. If we would have had propagation on 10m we most likely would have achieved our goal of 5,000 QSOs. Of course, all of our competitors were at the same disadvantage. We can only hope that Murphy took a bigger bite of our nemesis K4BFT who nosed us out of 1st place in 1990. Because of problems with the N6NAB dup program it might be wise to switch to the K1EA program. Club contesters

**Field Day!**

should get some practice in using these programs before FD. W9FQN's dog, Chula, should be call Chewla Coax since she cut one of our coax runs into two sections.

A special thanks to: the San Diego DX Club for providing expert CW operators and logistical support. Almost 400 CW QSOs over last years total were achieved due to 24 hour operation and superb antenna systems. All this with mediocre band conditions.

N6URW, WA6DOC, KZ6X, K6JYO, and N6WQW for providing RV's and Trailers for operating positions and bunks for tired operators. Especially N6WQW's RV which saved the day for the Novice/Tech station when their reserved RV failed to appear.

N6URW and WA6DOC for KP duty whipping up two dinners and one breakfast meal for the tired troops and KF6BL's leftover MREs from the Gulf War. WB6R, N6WLX, KC6UQH, N6SMW, KC6VEC, N6YMD, KZ6X and KF6BL for building, testing and refurbishing antennas.

And thanks to everyone who showed up to make this FD the best performance ever performed by PARC.

Jo-KB6NMK would like to thank the Novice-Tech station helpers: loggers, operators, antenna helpers, and anyone who loaned equipment and helped in many ways. WD6FWE, N6KI, WA6IQS, KB6NMK, KB6NML, KC6NSA, KC6OEI, N6QJE, N6QVW, KC6QXU, N6RMM, N6SMW, N6UCJ now N7QGH, N6UWW, N6UZH, WQ6V-antenna trailer, KC6VEC, KC6WAN, N6WLX, KC6WQW, K7GX, N6ZJV, N6URW-signs, WB6R-beam work, WB6HMY-generator, and especially a big thank you to N6YMD who adjusted the antennas all day and operated CW all night.

20SSB - N6KI, WF6L, N6WDN, WQ6V, N6JQK, N6RUV, N6ZUC, (KC6OEI), & (KC6VEC).

15/40SSB - KZ6X, KF6BL, N6QDB, (N6UWW), & Virginia (no call).

10/75SSB & 2mFM - N6WLX, N6SMW, AA6KY, KC6TLW, WB6IQS, N6UZH, (KC6VEC), & Judy and Elizabeth (no calls).

10/20/80CW-N6ND, N0DSM, KA5Q, NI6W, & WB6R.

15/40CW-W6YA, K6JYO, K6XT, WR6J, N6CW, & AA6TR.

Satellite-KB5MU, N6NKF, & WB9RKN. Packet-WB6KYG

PHOTOGRAPHS(that we are aware of)- Tony-KA6TNI (also slides) & Mac-WB6GXR.

SETUP & MISC DUTIES-KG6VX, W9FQN, N6QVW, KF6RX, KI6JM, N6EBB, N6WQW & FRIEND, KK6LX, AB6AR, N6YEI, N6QJE, KA6FPS, KC6BJM, N6RMM, & Ralph Powell (no call).

The 20/40 SSB station really took a beating this year because of the sun spots and having to shift between 20/40 when there was interference with the 20/40 CW station which had priority. Despite their restrictions, they managed to turn in 823 contacts for both bands while the CW 20/40 turned in 814 contacts but their score was multiplied by 2 equaling 1628 phone contacts. It really takes a team effort to score high during Field Day ..and we really had a lot of team players this year.

Here is some data for the PARC Field Day. We did our best and we hope it is good enough for the #1 spot in 5A for the USA. We placed second last year.

Band CW Ph			Satellite-	
80	151	249	4	CW & 117 phone
40	608	522		
20	814	1060		Novice/Tech
15	206	301	79	CW on 40m
10	0	164	61	phone VHF/UHF
2	43	43		and 10m

Yr	Total	CW	Phone	Total
	QSO	QSO	QSO	Score
85	1911	298	1613	4,418
86	2097	338	1759	4,870
87	2423	354	2069	5,554
88	2302	599	1703	5,802
89	2901	936	1965	7,674
90	4171	1545	2626	11,532
91	46327	1905	2517	13,654
	3.3x	6.4x	1.6x	3.1x

For those of you who like numbers, there they are.

- BK -

WORKPARTY(6-15) Orlando and

neighbor repaired a 40' crankup tower given to the club some time ago which had three "ice-bursts" making the holes look like someone had set off a stick of dynamite inside the pipe. They really did a great job of welding and the tower is almost like new ..now, if it only had a coat of paint.

WORKPARTY(6-??)Dennis-N6KI and father Orlando, N6QVW, worked on several tower mounts.

WORKPARTIES(6-??)Carl and crew seemed to be out in the "back 40" testing 75m antennas every time W9FQN and family (KA6FPS, N6QDB, & N6YZZ) turned around.

My apologies to anyone left out - please let me know so that I might update my list for credit due to a Pizza Bash invitation .. de N6KI.

#####  
> N E T S <

PARC is still open to having a SPANISH net on one of the repeaters. The 146.730 is open on Friday and Saturdays at 2100Hrs (9pm) and the 147.130 is open every evening at 2100Hrs.

Mark-AA6TR has suggested that since there are so many new young hams that they might want to have a SCHOOL net some evening. If there is any interest, please let us know about it.

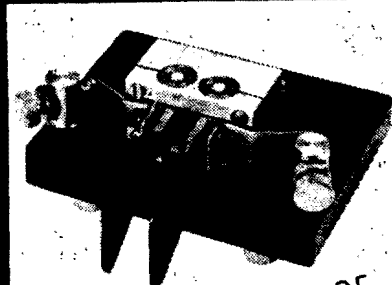
- BK -

#### 146.73 WEEKLY EVENTS

1 M->S 2000 S.D.Co Traffic Net  
(except 1st Wed club meeting)  
MON 2100 Microwave Net  
TUE 2100 S. D. Pkt. Voice Net  
WED 2100 Code Practice Net  
THU 2100 Ham Help Net  
SUN 0830 PARC Emergency Service  
SUN 1000 Sailboaters check-in  
SUN 2100 A R E S Planning Net  
MON 1930 RACES Net on 147.195

#### D I S C L A I M E R S

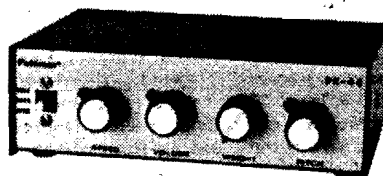
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#####

> TECHNICAL / HAM HELP <

Please send items for this column to the temporary editor, W9FQN, and they will be used on a space available basis. Don't forget the Thursday evening HAM HELP net run by Larry-KC6PEN if you have questions on amateur radio. Someone on the net should be able to help you with your problems.

- BK -

Allen-N7AMR knows of several places to get Collins radio equipment repaired.

- BK -

### **WATERPROOFING**

Please send us the names of stores that carry the materials mentioned below so that we know where to go along with their current product designations and prices.

PVC tape, SCOTCH 33+ or equivalent is good for wrapping over "self-amalgamating" electrical tape (SCOTCH 23 rubber splicing tape) since amalgamating tape breaks down with UV light.

Terminal blocks on rotators, driven elements on beams, or nuts and bolts can be coated with Dow Corning silicone grease, MS4.

DO NOT use common RTV sealants. They emit a strong vinegar smell and will corrode electrical connections to nothingness within a year.

Dow Corning Silastic 738 is good for corrosion sensitive connections. Real critical connections could use Dow 3145 Hi-Tech RTV. Wrap first with Scotch 23, then pot with Dow 738 for a good joint. Clean all connections first with Dow primer 1200. Rubber surfaces lightly sanded and acetone wiped.

Coax-SEAL is good for sealing coaxial cable. It goes on like Silly Putty, is easily molded, and can be removed in cool weather.

The glue from a "heat-gun" will

seal coax connections.

GOOP by Electric Products seems to work well as a sealer of coax cable. Its found in many stores in the glue department. It repairs almost everything.

Heat shrink tubing sometimes works well - also in combination with other methods.

And don't forget to wrap the connection with electrical tape - even if you use the above methods. Some people "layer" glue and electrical tape. Remember that water in your coax is death to your signal going out and coming in to your radio. Put "drip" loops in your coax where needed.

Any more ideas on sealing coax connectors from the weather?

- BK -

One of the most frustrating things about the using of handi-talkies is that the battery that comes with the unit only last for several hours. It is suggested that you can extend the usefulness of your HT in everyday use and during emergencies by:

- 1) Using a 12vDC car plug
- 2) Buying several empty battery cases that hold 6-8 nicads
- 3) Using low power when possible
- 4) Using the HT "battery saver"
- 5) Use a plug-in 2-10Ahr battery
- 6) NEVER turning the HT on

I buy all my nicads from PRICE CLUB and use their CC-8 charger. Buy one more set of 6 cells than you have cases so that you can immediately replace the used cells with freshly charged cells. Our family has four HTs and each HT has its original battery case plus two 6-cell cases plus 6 extra cells for a total of four uses. Our charger is always busy! Store your charged cells in the refrigerator to cut down on the cells self-discharging 1%/day. This makes for real cool HT operation. de W9FQN

- BK -

There is a lot being said lately about magnetic fields being dangerous - turn off that electric blanket! The June 1990 73 Magazine,

page 34, has a nice article on an Experimental Gaussmeter which uses a surplus US Navy 1020 Hz Range Filter, WW II surplus. We need a Range Filter so that the club can construct a Gaussmeter for use by members. For those new amateurs, a gauss meter is used to count and locate Gauss. Anyone interested in the project to find out if that power supply or electric blanked is as DANGEROUS as they say it is?

73, Stan W9FQN

# **CONSULTING EXPERTS** (found on 146.730)

KB6MCU: ElCajon, Ham Radio Classes  
W6TXK : MiraMesa, Ham Radio Classes  
W6FGE : PtLoma Theory/Code Classes  
KB6NMK: FCC 610 Forms at meetings  
W6INI : ARES; ARRL; Fire Patrols  
WD0DLW: ARES Encinitas->San Marcos  
KC6CZ0: ARES Escondido, N&E. of I-15  
WB6FMT: Autopatches and 450 Equip.  
Flying instructor, FM Deviation

KB6NMK: Direction Finding info.  
KC6PEN: Ham Help NetThur.Eve; Tubes  
FM Deviation  
WB6IQS: Heathkit; Motorola; Rpters  
KB6MCU: Interference; Filters; ATV  
FCC, Antennas (HF/VHF/UHF), towers  
W9FQN : Mexican License; Nicads  
N6IZW : Microwave; Test Equipment  
KI6RF : Mobile noise filtering  
N6RVO : National Traffic System  
W60LQ : Ping Pong; Badges; HP Plot  
KB5MU : Pkt; Satellite; Computers  
voic packet net TueEve  
N6UWU : Radio Controlled Airplanes  
N6KI : Swapmeets; Used Equip\$ Est  
2m J-pole Ant  
ND6W : Test Equipment, Programming  
AA60M : VE Testing: Tests/Helpers  
WA6HQM: 10 meter 10-10 Club Infor  
WQ6V : Cable TV problems; Coins  
WD6FWE: C-64 computers-> Commodore  
AA6TR : Sailing / Boating Antennas  
N6TEP : U.S. Coast Guard Auxiliary  
Check ad sections for profess-

ional help on radio repair: N6GZI (antennas), KC6PEN (equipment repair), and HR0. If you would like to have your call added to the list, contact W9FQN with your speciality area.

#####  
> P O T P O U R R I <

**HAM STAMP PINS:** Replica of ham postage stamp, \$5. Contact an officer at the next meeting.

- BK -

**OFFICIAL CLUB BADGES:** see John Tentor, W60LQ, 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.

- BK -

- 73 W9FQN -

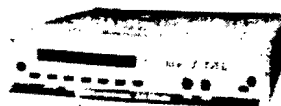
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(i.e., pg 8, D6)

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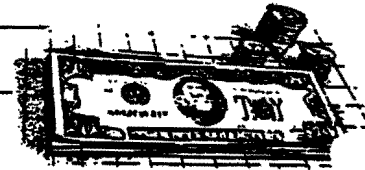
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VOL XXVI, NO.9

SEPTEMBER

1991

55 YEARS

September 4th meeting(1st Wed) is at Lincoln Middle School Cafeteria in Vista. 1-5 or I-15 to Rd.78, Escondido Ave(Sunset) ramp, north on Esc.Ave, after 2nd light between Eucalyptus and E.Vista Way. Talk in .730.

## H A M C A L E N D A R

Sep 4 Wed - PARC Club Meeting  
Sep 7 Sat - 3rdARRL Awareness Day  
Sep 12 Thu - PARC Executive Mtg.  
Sep 14 Sat - NO PARC VE Test\*\*\*\*\*  
Sep 20 Fri - SCOPE info deadline  
(Send calendar items to W9FQN)

## C O N T E N T S

Executive Meeting, del pres . 2  
1990-91 PARC Club Roster 3,4,5,&6  
Exec Mtg, President, SK . . . . 7  
Thanks, Ads . . . . . 8  
Autopatches . . . . . 9  
Ads, For Sale . . . . .10  
Ad, Wanted, Membership . . .11  
Cameo-N6AT, VE, Gen News . .12  
N6GNB, Nets, Weekly events .13  
Corrections, W6ING Rpt, Tech .14  
Experts, Potpourri, Ad . . .15

## L A S T C L U B M E E T I N G

The August 7th program consisted of Scottie-KH6TL and Nelson Petrey talking about EVAC (Emergency Volunteer Air Control) and showed a VCR tape on the subject. Stan talked about the autopatches and Jerry-WB6FMT, the club's autopatch guru, displayed the new autopatch link unit along with the first of three remote links to telephones in

San Diego County. The communications room (180) used for ARES and RACES was available for our inspection after the meeting.

Attending were a record number of 88 members and 20 guests (total 108) who enjoyed the coffee and goodies. We were very impressed with the youth group that attended:

Scott Earl . . . KC6WRK San Diego  
Jeanine Earl . . . KC6WRI San Diego  
Nicole Steinwedell KC6YZP Vista  
Jennifer Thieme . pending Vista  
David Pressman . KC6VMR Del Mar  
Chris Allen . . . KC6QOJ Encinitas  
Elizabeth Childers wrking PalomarMt

Their ages varied from Scott (7) to the OM David (13). All the calls are Techs so if you have any children be sure to "encourage" them to join the group...woops, Chris-KC6QOJ just passed his General ..and now his Advanced!!!

Jack-KI6JM supervised the coffee in the absence of Art-KB6YHZ who has had other obligations on Wednesdays these past few months. THE GOODIE TABLE NEEDS GOODIES SO WHY NOT BRING SOMETHING FOR NEXT MEETING. Thanks.

## N E X T C L U B M E E T I N G

Our next club meeting will be September 4th at 7:30pm in the Lincoln Middle School Cafeteria on Escondido Avenue in Vista. The program will be by Chip-KC600E, chief op at MARS station, with a working demonstration of AMTOR which many amateurs believe is still better than packet for HF contacts although he will make comments on RTTY and Packet operation. Chip will have on display: JF mobile rig, VHF 2m HT, Terminal Node Controller (TNC), laptop computer, JF tuner, portable antenna, and 12VDC power supplies (no AC).

## W A N T t o B E a H A M ? (or Dial-a-Ham)

If you or a friend are interested in becoming an amateur radio operator and in joining the Club, please contact one of the following ELMERS for more information or use the application form on the back of this issue:

VALLEY CENTER . Stan Rohrer . W9FQN  
(President, Editor(temp) 749-0276)  
VISTA . . Jack Hanthorn . . KI6JM  
(Vice-President, 598-0420)  
BONSALL . . Nash Williams . . W6HCD  
(Secretary, 728-3574)  
CARLSBAD . Benton Caldwell . KK6LX



(Treasurer, 729-5161)  
 E\$CONDIDO . . Jo A\$hley . . KB6NMK  
 (Membership Chairwoman, 741-2560)  
 CARDIFF: Duane Stedman:WB6R:753-4821  
 CARLSBAD:EleanoreCall:N6QJE:729-0850  
 ChulaVista:SteveGrant:N6RUV:422-4415  
 DEL MAR:GerrySanford:KC6BJM:755-5244  
 ENCINITAS:DaveCopley:WA6HQM:753-2605  
 FALLBROOK:ArtRideout:WA6IPD:728-6834  
 La MESA: Roger Jaffe :N6UW:697-6025  
 LAKESIDE:Mac McBride:WB6GXR:561-2211  
 LEUCADIA: Bud Lincoln:KG6VX:436-9983  
 LinVistaPaulWilliamson:KB5MU:571-8585  
 MIRA MESA: Ron Earl :W6TXK:566-1959  
 OCEANSIDE:LarryGugle:KC6PEN:439-4109  
 OCEANSIDE: Lloyd Hunt:W6TFB:757-9374  
 PAUMA-PALA:Mark Ross:KC6CZD:742-1539  
 PointLom:MickMcDaniel:W6FGE:222-3912  
 POWAY:MarkSchlesinger:N6NNI:748-8391  
 RAMONA: Vernon Leming:AA6UU:789-3070  
 RanchoPen:John Tentor:W6QLD:672-3891  
 RanchoS.Fe:RonWilhelmy:WI6B:756-3133  
 S.D.:Dennis Vernacchia:N6KI:271-6079  
 SanMARCOS:FloydHarvey:W6JSP:741-8391  
 SanMARCOS:RustyMassie:AA6OM:747-5872  
 SolanaBe:LouBroadbent:N6CKQ:755-9179  
 VISTA: Jerry Houser :WB6FMT:758-4388

#### \*\*\*\*\* EXECUTIVE MEETING

8-15-91 DISCUSSED: club \$\$ & SCOPE costs; programs; nomination committee; K6HAV; N6KI & autopatch; preambles on nets; fairness of attendance tickets with suggestions to be considered at next Exec meeting before being brought before the club with decision probably being retro-active to beginning of club year; answering machines; new repeater control location; new repeater building and KC6PAS drawn plans; changing PARC box number to "73" from "1603."

APPROVED: next exec mtg at KI6JM's QTH; Sept. AMTOR program; \$180 phone filter; constitution to be published again; N6KI FD bash \$100; effective date of meeting (8-15-91) SCOPES (without membership) will only be sent out of County unless approved

by the Executive Committee; \$150 for autopatch antennas; \$100 for W6NWG IDers; new stationary; HANDI-HAMS donation of \$25.

IN ATTENDANCE: (officers) Stan-W9FQN, Jack-KI6JM, Nash-W6HCD, and Benton-KK6LX; with Jo-KB6NMK (Membership). The July meeting was at Jack-KI6JM's QTH and we all enjoyed the goodies. The September 12th meeting will be at Jack-KI6JM's QTH.

\*\*\*\*\*  
 ## del P R E S I D E N T E #4 ##  
 ### (after #4 comes #3!) ###  
 ### (and temporary editor) ###  
 \*\*\*\*\*

John-WB6IQS left for RUSSIA at the beginning of August and according to the information he left with me, HE WAS IN MOSCOW DURING the COUP and I have no way of checking on where he is at present. Because of the way everything turned out, I hope that their group decided to stay in MOSCOW for the big party although I am sure that they all wondered if they were going to get out of Moscow alive. He is scheduled to be back among us at the end of August.

WELCOME HOME JOHN!

- BK -

The Executive Committee has decided that the SCOPE will no longer accept subscriptions going to amateurs with licenses in the San Diego Co. area unless they are full members of the club. We will continue sending to certain non-members, officials, advertisers, and club exchanges. This new policy will take affect as of the last executive committee meeting.

- BK -

This month we welcome a new advertiser from 9-land, Gene-WB9COY. Gene makes 2m, 220, and 450 antennas for the commercial market. We will be using his antennas in our

autopatch system. Gene's 9-land call is from Chicago and about 90 miles from my home town in Indiana (Wakarusa ..near South Bend, Ind.). Wakarusa is an Indian name for "knee deep in mud." Many of the new HT's and mobile rigs are dual banders so you will probably find a 450 MHz beam is a good thing to use in accessing those "far away" 450 repeaters. Four feet of beam can be hid almost anyplace in a condo or on a balcony. His antennas can be seen and purchased at HRO. I will try to bring one to the next meeting for members to see.

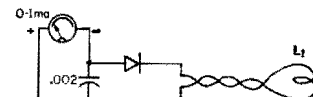
- BK -

By the end of this year I will have chaired 84-2 club meetings and 84-1 executive committee meetings. One of the good things about not being president is that I will be able to meet more of the club membership on a one-to-one basis at club meetings which I was not able to do as president ...also I will get a chance to try some of those low-cal cookies that I have been missing out on these past seven years.

73, Stan W9FQN



\*\*\*\*\*+ SK \*\*\*\*\*+  
 # - W A 6 M Y C - #  
 #  
 # AL LEVON passed away July 15. #  
 # He was an avid ham radio operator, #  
 # or, mechanical engineer, and a #  
 # marine photographer in China. He #  
 # will be greatly missed by all #  
 # who knew him. #  
 \*\*\*\*\*+ SK \*\*\*\*\*+  
 # - W 6 T Z V - #  
 #  
 # HAL CRISPELL, a long time PARC #  
 # member passed away last month. #  
 # Hal was noted for his work with #  
 # Electro Magnetic Interference #  
 # and left extensive files on it. #  
 \*\*\*\*\*+ SK \*\*\*\*\*+



—A simple r.f. indicator can be made as shown above. Inductor L<sub>1</sub> is 2 turns of hookup wire with the leads twisted right up to the meter.

**Amateur Radio**  
 A NATIONAL RESOURCE



NOCPS PASCHKE, VERN	789-9706	1539 KEYES RD	RAMONA, CA	92065	KB6EPD JOHNSON, ERIC	P.O. BOX 996	IMPERIAL BEACH, CA	91933
K808BX JOHNSTON, GORDON		LAKE OF OZARKS HOME	ELDON, MO	65026	K8ERM INSKIP, CHAS. G.	589-0636 2375 WHITE WING DR.	JAMUL, CA.	92035
W00BLW MONTES, C. M. "JACK"	728-0258	244 N. STAGECOACH LN.	FALLBROOK, CA.	92028	W4GES6 CASTAGNA, ED	726-5236 273 MAR VISTA DR.	VISTA, CA.	92083
NOEVV PASCHKE, MARY	789-9706	1539 KEYES RD	RAMONA, CA	92065	NH6EW MC CARTHY, MAC	945-7391 2729 THUNDER DR.	OCEANSIDE, CA.	92056
NOLYN ARMITAGE, LEE D.	586-1116	10045 WALDGROVE PL	SAN DIEGO, CA	92131	W6EYP LINCOLN, WARREN	744-5097 1286 DISCOVERY ST SP88	SAN MARCOS, CA.	92069
WBOYCO KIRSCHNER, B.	722-5394	266 CARISSA DR.	OCEANSIDE, CA.	92057	N6FMK BOWEN, BILL	941-9492 484 VALERIE DR.	VISTA, CA.	92084
W4IC50 SILVEIRA, JOSEPH A.	846-2272	3 SQUAMITUM COURT	MIDDLETOWN, RI	02840	W6GFT HOUSER, JERRY L.	758-4388 1073 CYPRESS DR.	VISTA, CA.	92084
KUIY FENSTERMACHER, BRUCE (TED)	945-5929	1625 TARA KIN LN	VISTA, CA	92083	K4GFP5 ROHRER, BARBARA	749-0276 30311 CIRCLE R LANE	VALLEY CENTER, CA.	92082
W4IZEN AMES, TIMOTHY E.	469-7357	6542 BANTAM LAKE AVE.	SAN DIEGO, CA	92119	W6FTV FALLS, EDWARD L.	728-2729 3352 CANONITA DR.	FALLBROOK, CA.	92028
W2AUO SHAUT, STANLEY		12850 CAMINO D LA BRECCIA	SAN DIEGO, CA.	92128	W6GFW JOHNSON, DON J.	758-4187 3140 LINCOLN ST.	CARLSBAD, CA.	92008
W2B2ZH MADRICK, DAVID S.		84-57 126th STREET	KEW GARDENS, NY	11415	KK6FX BROWN, JIM	758-4794 3201 MIRA MESA AVE.	OCEANSIDE, CA.	92056
W2B12W HATEM, RICHARD "RICK"	434-3770	2741 BERKELEY AV	CARLSBAD, CA	92008	W6FXL GOEPFINGER, ALBERT	745-4436 2161 SUNSET DR.	ESCONDIDO, CA.	92025
W2HRM NIELE, STEVE	451-5690	12699 SENDA ACANTILADA	SAN DIEGO, CA	92128	K8GFX BELFIELD, SCOTT P.	487-7005 17083 ABRA WAY	SAN DIEGO, CA.	92128
A2EU BREDINUS, MICHAEL J.	692-0953	955 HARBOR ISLAND DR #145	SAN DIEGO, CA	92101	KC6GFX HAFNER, JANET	727-4078 1946 MONTE VISTA DR	VISTA, CA	92084
W43AAJ WARD, JAMES M.	484-3110	13587 PASEO CARDIEL	SAN DIEGO, CA	92129	W4GGGS MEADOWS, JACK R	487-5298 17010 HIERBA DR	SAN DIEGO, CA	92128
W43RU ZIEGLER, PETE	943-8005	3482 SITIO BORDE	CARLSBAD, CA	92009	W6GMD CAREY, RICHARD	224-9300 4003 ORCHARD AVE.	SAN DIEGO, CA.	92107
K3FWT DI VECCHIO, MARK C.	566-6810	10435 MOUNTAIN GLEN TER.	SAN DIEGO, CA.	92131	K4GGHE PATCHEL, JUDITH	581-2628 3634 JENNIFER ST.	SAN DIEGO, CA.	92117
W43HNC TOTH, ALAN T.	724-2797	1015 ROSE DR.	VISTA, CA	92083	K16GI HOY, TIM	469-2920 P.O. BOX 3734	LA MESA, CA.	92044
W43IIV REICHMAN, ROBERT T.	740-9550	3020 RANCHO DEL SOL	ESCONDIDO, CA	92025	W4GGID GRAHAM, THOMAS	940-0415 3721 SKY HAVEN LANE	OCEANSIDE, CA	92056
K3PXi RUMYON, TERRY S.	726-0595	108 HAMMALEI DR.	VISTA, CA.	92083	N6GJW FOLSON, RUSSEL A.	789-8348 16266 ARENA DR.	RAMONA, CA.	92065
N4AWF ENOCHS, GARY D.	678-8875	22843 KUKA CIRCLE	WILDOMAR, CA	92395	K8B6KE MORRIS, R. S. (STEVE)	433-4269 1224 S. PACIFIC ST #11	OCEANSIDE, CA	92054
KE4EY FLEISCHMANN, WM. (BILL)	759-1947	P O BOX 3908	RANCHO SANTA FE, CA	92067	N6GNB FAHNESTOCK, ALBERT U.	741-1840 1499 E. WILSON AVE.	ESCONDIDO, CA	92027
W4NYU GATES, HOWARD W.	363-7196	2617 S DURANGO DR #101	LAS VEGAS, NV	89117	N6GOS BECK, DONALD R.	756-2726 P.O. BOX 2372	RANCHO SANTA FE, CA.	92067
W4YQU DRAN, SAMUEL	726-2003	2361 VIA SUBRIA	VISTA, CA.	92084	K4G6RG CALVERT, CHUCK	726-2612 1570 GOODWIN DR.	VISTA, CA.	92084
K6SFR ALBRECHTSEN, LOUIS	941-0725	845 HAMPTON CT.	VISTA, CA.	92083	KC6GVH KINNEY, LYLE C.	756-2331 P.O. BOX 1112	RANCHO SANTA FE, CA	92067
NSHTC WEBER JR., CHARLES E.	273-0406	5264 SOLEDAD RD	SAN DIEGO, CA	92109	N6GW WENZ, GORDON	222-5575 1055 BANGOR ST.	SAN DIEGO, CA.	92106
K8SMU WILLIAMSON, PAUL T.	571-8585	5331 CHAMNING ST	SAN DIEGO, CA.	92117	N6GWJ FAHNESTOCK, NICKY	741-1840 1499 E. WILSON AVE.	ESCONDIDO, CA.	92027
NSMLV WEBER, CHARLOTTE	273-0406	5264 SOLEDAD ROAD	SAN DIEGO, CA	92109	W6GGR MC BRIDE, WILLERT "MAC"	561-2211 9493 EMERALD GROVE AVE.	LAKESIDE, CA.	92040
K4S9 SEALS, KEN	944-7373	1521 JUNIPERHILL DR.	ENCINITAS, CA	92024	N6GZT ROSS, ED	297-7758 1419 GOLDEN GATE DR.	SAN DIEGO, CA.	92116
W6GAHV REMINGTON, TODD	724-4079	31932 DEL CIELO ESTS. #12	BONSALE, CA	92003	K6HAV CROSSMAN, RALPH	328-2318 697 N. DE SOTO ST.	SALT LAKE CITY, UT	84103
W6GAHW DEWEY, WM. H. (BILL)	728-6912	4878 SAN JACINTO CIRCLE	FALLBROOK, CA.	92028	W6HC HODGSON, CHARLES	272-9778 P.O. BOX 178374	SAN DIEGO, CA.	92117
K6BAI ROWLETT, GUY	229-9071	3233 W LINCOLN - #125	ANAHEIM, CA	92801	W6HCD WILLIAMS, A. NASH	728-3574 32001 VIA ARARAT DR.	BONSALE, CA.	92003
N6AMD HARLAND, RAY	746-4584	2602 MARY LANE	ESCONDIDO, CA.	92025	W6HFE RANNE, FRANK B.	757-9365 331 REDONDO DR.	OCEANSIDE, CA.	92057
K6BARS SWENSON, GEORGE A.	569-0993	6460 CONVOY CT. #115	SAN DIEGO, CA.	92117	W6HFI NORMINGTON, PHILLIPP B.	724-4736 1302 HERMANA CT.	VISTA, CA.	92084
AB6AR YOSHIDA, TOMOAKI	457-9887	8993 COVINA ST.	SAN DIEGO, CA	92126	W6GHV BROCK, MIKE	566-3799 10230 MAYOR CIRCLE	SAN DIEGO, CA	92126
K6GAST ARBUTHNOT III, G. LANE	788-1408	24717 EL SEBO PLACE	RAMONA, CA	92065	KE6HI BOURHENNE, ALMA J.	753-2542 2025 CAMBRIDGE AVE.	CARDIFF BY THE SEA, CA	92007
N6AT CASSEN, FRANKLIN	728-8003	3909 RECHE RD. SP-22	FALLBROOK, CA.	92028	W6HLB CRAIG SR., JOE	757-1272 412 S. BARNWELL ST.	OCEANSIDE, CA.	92054
W16B WILHELMY, RON	756-3133	P.O. BOX 2448	RANCHO SANTA FE, CA.	92067	N6HLY BALL, CARL LEWIS	487-6272 16718 DIEGO DR.	SAN DIEGO, CA.	92128
N6BA MC CULLOUGH, LEO F. "MAC"	729-2639	3500 CATALINA DR	CARLSBAD, CA.	92008	W6GMY LA POINTE, JOE	722-6054 188 EVERGREEN PKWY.	OCEANSIDE, CA.	92054
N6BAD REBER, JOHN	453-4952	5968 TULANE ST.	SAN DIEGO, CA.	92122	KC6HPY MONTHEI, H. E. "GENE"	723-8368 1238 E. MISSION RD.	FALLBROOK, CA	92028
W6BAW BOWLEY, JOHN R.	941-3283	4979 GABRIELIENO AVE.	OCEANSIDE, CA	92057	W4GHW COMPEY, DAVE	753-2605 1727 GREENTREE RD.	ENCINITAS, CA.	92024
W4G6BJ BENSON, THEODORE "TED"	944-0639	426 FULVIA DR	ENCINITAS, CA	92024	W6GHSZ CAMPBELL, JOHN R.	724-1764 324 EAST DR.	VISTA, CA.	92083
W4G6BEZ GONSETT, JUDY	723-2700	2685 ALTA VISTA DR.	FALLBROOK, CA	92028	W6HTT SCHMIDT, GLENN A.	727-4004 425 ESTRECIITA DR.	VISTA, CA.	92084
KE6BH COUNTRYMAN, BILL	757-2520	MACDONALD ST.	OCEANSIDE, CA.	92054	KC6HTZ SAUF, WILLIAM J.	587-1201 8795 H GILMAN DR.	LA JOLLA, CA	92037
KC6BHE WAGNER, MICHAEL J.	488-2428	1518 YOST DR	SAN DIEGO, CA	92109	W6HW BELSGARTNER, VERN	3760 OLDS RD. SP-86	OXNARD, CA.	93030
W6BHF DOBLER, RAY	487-4423	17142 CLUQUOT CT.	POWAY, CA.	92064	W4GHY PUGH, DANIEL C.	433-4445 4600-125 N. RIVER RD.	OCEANSIDE, CA.	92057
W6BIH TUPANCY, OSCAR		32001 CHERRY HILL #628	WESTLAND, MI	48185	W4GHYC WATT, WM. D. "BILL"	439-8814 1733 S. DITMAR ST.	OCEANSIDE, CA.	92054
KC6BIM ANDERSON III, WM. J. (BILL)	487-5044	11311 CALENDRA RD	SAN DIEGO, CA	92127	K6HZ YACABUCCI, JAMES E.	223-3927 5015 SANTA CRUZ AVE #211	SAN DIEGO, CA.	92107
KC6BJM SANDFORD, GERRY M.	755-5244	2734 CAMINITO VERDUGO	DEL MAR, CA.	92014	K4G6ZF HOOVER, ROBERT	727-5414 1875 MONTE VISTA DR	VISTA, CA	92084
W6BLI WILLIAMS, JACK	729-5318	3820 MARGARET WY.	CARLSBAD, CA.	92008	K61CG CARRY, EDWARD	582-7318 5844 KENT PL.	SAN DIEGO, CA.	92120
W6BLZ GLIMPSE, ART	758-2049	245-81 W. BOBBER DR	VISTA, CA	92083	N61CH BROWN, THOMAS F.	433-7600 4433 KITTIWAKE WAY	OCEANSIDE, CA.	92057
W6BRF MC CLUSKEY, PAUL		1718 BELLE MEADE RD.	ENCINITAS, CA	92024	N61E FERRANTO, FELIX	277-8587 7280 TAIT ST.	SAN DIEGO, CA.	92111
W6BRX BROUILLET, PAUL	745-8070	3131 MARY LANE	ESCONDIDO, CA.	92025	K61I HOLM, EDWARD A.	726-4333 1851 ALTA VISTA DR.	VISTA, CA.	92084
W6BVU HUGHES, ROBERT	578-0744	9917 AVIARY DR.	SAN DIEGO, CA	92131	KK6IL KOLB, JOHN	789-6015 540 S. KALBAUGH ST.	RAMONA, CA.	92065
KK6CA MILLER, RAYMOND	728-3179	4658 S. MISSION RD.	FALLBROOK, CA.	92028	W6INI SMITH, ARTHUR R.	273-1120 4515 MELISA WAY	SAN DIEGO, CA.	92117
KK6CD SIMPSON, BRUCE E.	489-5769	1633 TOWELL LANE	ESCONDIDO	92029	W4GINL DAU JR., WALTER K.	487-5249 12886 CIRCULO D'ARDO	SAN DIEGO, CA.	92128
N6CKQ BROADBENT, LOUIS C.	755-9179	976 SANTA ESTELLA	SOLANA BEACH, CA.	92075	N6INN CROSSMAN, PAT	328-2318 697 N. DE SOTO ST.	SALT LAKE CITY, UT	84103
KK6CN HARPER, JAMES H.	483-1648	5142 PROVIDENCE RD.	SAN DIEGO, CA.	92117	W6GIOV LOWELL, RUSSELL A.	436-6714 7507 QUINTA ST.	CARLSBAD, CA.	92009
N6COU WHIPPLE, BILL	758-7163	1605 WAGON WHEEL DR.	OCEANSIDE, CA.	92057	W4GPD RIDEOUT, ART	728-6834 2235 GUM TREE LN.	FALLBROOK, CA.	92028
K6CFF WOODBRIDGE, ED	727-3322	3304 SILVER OAK LN	VISTA, CA	92084	KC6GIM KIRK JR., HARVEY O.	724-4872 933 S SANTA FE AV #C	VISTA, CA.	92083
K6G6Q GRISWOLD, CHAS. D. "CHUCK"	720-9852	3952 JEFFERSON ST.	CARLSBAD, CA	92008	W6G1QS KUIVINEN, JOHN	724-8380 P.O. BOX 1466	VISTA, CA.	92085
N6CQF ROSKY, DAVID S.	753-6578	1853 HAWK VIEW DR	LEUCADIA, CA	92024	W6IRM INSKIP, CHAS. C "CHUCK"	722-2201 631 S CLEMENTINE ST	OCEANSIDE, CA.	92054
W6GCSH HAMANN, MICHAEL A.	283-2447	6665 MISSION GORGE RD -B4	SAN DIEGO, CA	92120	N6ISC LACKEY, PAUL	727-8777 155 S. LAS FLORES #76	SAN MARCOS, CA.	92069
K6CV BASTON JR., JOSEPH G.	484-7035	8733 ELFOR COURT	SAN DIEGO, CA.	92129	W6IUG WEST, RICHARD D.	566-7089 10711 CHARBONO TER.	SAN DIEGO, CA.	92131
AM6CW MONDALA, PHILIP R.		2134 PARADISE HILLS RD	SAN DIEGO, CA	92114	W4GIWK PATCHEL, HERBERT O.	581-2628 3634 JENNIFER ST.	SAN DIEGO, CA.	92117
KC6CZO ROSS, MARK W.	742-1775	1835A S CNTR CITY PKWY	ESCONDIDO, CA	92025	W61ZK HALE, WAYNE	471-2983 1208 JADE PLACE	SAN MARCOS, CA.	92069
K8G6DR MAHONEY, BETTY J.		1066 ALVARADO DR.	MAPLEWOOD, MN	55109	W61ZS HICKMAN, RAY F.	466-4702 6818 ROLANDO KNOLLS DR.	LA MESA, CA.	91941
W6DNX LANGJAHN, CARL	726-4010	4644 CORDOBA WY.	OCEANSIDE, CA.	92056	N61ZW BANKE, KERRY	462-2220 6026 POPPY ST.	LA MESA, CA.	92041
W6DDC SALZARULO, MARK	945-1367	5649 ROANE DR.	OCEANSIDE, CA.	92057	N6CJ CHAMBERS, ROBERT A. "BOB"	560-4560 2247 W. JEWETT ST.	SAN DIEGO, CA.	92111
N6DSC WHEELER, DUANE W.	747-0539	P.O. BOX 1989	ESCONDIDO, CA	92033	K6GJA BERG, PETER	729-8408 P.O. BOX 4207	CARLSBAD, CA.	92008
K8G6DSC BRUIN, BETTY B	277-7142	5573 MT. ACARA DR.	SAN DIEGO, CA.	92111	K16JH HANTHORN, JACK E.	598-0420 1211 HIDDEN OAKS TRAIL	VISTA, CA.	92084
W6DUR WAGNER, ROBERT G.	273-0789	3077 JUTLAND COURT	SAN DIEGO, CA.	92117	W6JRD HUCKABAY, WALT	722-3248 1047 SHAVER ST.	OCEANSIDE, CA.	92054
W6DVZ RUGG, JIM	630-4386	2333 CATALINA AVE.	VISTA, CA	92084	W6JSP HARVEY, FLOYD	741-8391 1195-33 LA MOREE RD.	SAN MARCOS, CA.	92069
W4G6DYV SWADER, JOHN B. "JACK"		1455 S. ALTURAS SP# 118	FALLBROOK, CA.	92028	W6JVS ROUSE, HARRY A.	757-2260 328 CROUCH ST.	OCEANSIDE, CA.	92054
A4GEE HEISE, DUANE	789-3674	16832 WHIRLWIND LANE	RAMONA, CA	92065	W4GJIE KELLOUGH, DON S.	943-0833 256 CAMINO DE LAS FLORES	ENCINITAS, CA	92024
					N6JZB COOK, WALLY	278-4767 5663 BALBOA AVE - #187	SAN DIEGO, CA	92111

K6GKQ DOYLE SR., MIKE	742-1573 PALOMAR OBSERVATORY	PALOMAR MOUNTAIN, CA	92060	K6GPAR KIRKES, DIANE	742-1693 P.O. BOX 184	PALOMAR MOUNTAIN, CA	92060
N6KI VERNACCHIA, DENNIS	271-6079 8993 COVINA ST.	SAN DIEGO, CA.	92126	K6GPAS KIRKES, JIM	742-1693 P.O. BOX 184	PALOMAR MOUNTAIN, CA	92060
K6GAPP GRAHAM, EARL KMGDC	748-3608 14338 LOUETTA LANE	POWAY, CA	92064	K6GPCF PARKER, MARNI	272-1409 4166 TAOS DR.	SAN DIEGO, CA.	92117
N6KTE KRIST, R.F.	941-3555 222 HAMTHORNE CIRCLE	VISTA, CA.	92083	N6PDZ BARKER, FRED	726-2616 1341 PHILLIPS ST.	VISTA, CA.	92083
N6KVV WONG, DENNIS	10601A TIERRASANTA RD 162	SAN DIEGO, CA	92124	N6PEA BARKER, MARY	726-2616 1341 PHILLIPS ST.	VISTA, CA.	92083
N6KXD BLAIS, PHILIP L.	12691 KESTREL ST.	SAN DIEGO, CA	92129	K6GPN GUGLE, LARRY E.	439-4109 690 HOLLOWGLEN RD	OCEANSIDE, CA	92057
A6KY DUTCHER, DAVID	8466 ABILENE TER	LA MESA, CA	91942	A6GPN CURRIER, RICHARD E.	271-8326 10880 POINTED OAK LANE	SAN DIEGO, CA	92131
N6KZN HEITGER, ROBERT L.	69-411 RAMON RD #1046	CATHEDRAL CITY, CA	92234	K6PP HORRALL, GENE	442-3716 620 ECKEN RD.	EL CAJON, CA.	92020
N6GL CONTOGENIS, JOSEPH P.	749-2699 13964 PAUMA VISTA DR.	VALLEY CENTER, CA.	92082	K6PPD HEISMAN, PAUL	726-1616 1008 TOROLE CIR.	VISTA, CA.	92084
N6FL LEONELLI, PHIL	757-7008 3564 STRAWBERRY PL.	OCEANSIDE, CA.	92056	K6GPPM PARROTT, RICHARD	486-3541 12627 ORDHAVEN LANE	POWAY, CA	92064
N6LCT SEAMAN, LARRY	1890 CATHAN LANE	VISTA, CA	92084	K6GPPN NORMAN, TORRI L.	945-7225 1320 MORNING GLORY PL	VISTA, CA.	92084
N6GLEH RISELEY, JAMES P.	744-7654 1247 SAN MARCOS BLVD -E11	SAN MARCOS, CA	92069	N6PQQ DE MONTESRE, VINA	726-0353 750 CRESTVIEW RD.	VISTA, CA.	92083
K6LMJ PEARCE, ART	724-6155 3580 TWILIGHT LN.	OCEANSIDE, CA.	92056	K6GPRH BISHOP, LARRY A.	758-2509 1689 AVENIDA OCEANO	OCEANSIDE, CA	92056
K6GLRH HOUSER, JAN	758-4388 1073 CYPRESS DR.	VISTA, CA	92084	K6GPRW THARP, DANNY R.	945-7225 1320 MORNING GLORY PL	VISTA, CA	92084
N6LTV HART, LANE	743-7532 1918 PAMELA LN.	ESCONDIDO, CA.	92026	K6PUN GORDON, DOUGLAS	729-0239 3915 TRIESTE DR.	CARLSBAD, CA.	92008
K6GLX CALDWELL, BENTON	729-5161 4150 ADAMS ST.	CARLSBAD, CA.	92008	K6GBBD GEARHART, RICHARD L "DICK"	433-7722 276-193 N. EL CAMINO REAL	OCEANSIDE, CA	92054
K6GLXA DIENGOTT, STANLEY J.	583-2053 6525 CRYSTAL LAIRE DR	SAN DIEGO, CA	92120	N6GBBD WILLIAMS, RICHARD	757-3734 P.O. BOX 177	SAN LUIS REY, CA.	92068
K6GBHL ROSS, BETSY E.	272-6395 1252 DIAMOND ST.	SAN DIEGO, CA.	92109	N6GCA DAVIS, LAWRENCE L.	582-4324 6578 CRYSTAL LAIRE DR.	SAN DIEGO, CA.	92120
K6GNCU SMITH JR., BILL J.	582-2313 3429 PAGE ST.	SAN DIEGO, CA.	92115	N6GDB ROHRER, SUSAN J.	1230 E COLTON D-501	REDLANDS, CA	92374
N6GNEI HAMMOND, JOHN	560-9549 2909 SEGO PL.	SAN DIEGO, CA.	92123	K6GDF MC CORNICK, MATT	724-6361 1010-134 E. BOBBER DR.	VISTA, CA.	92084
K6MHG CORWIN, WILLIAM L.	746-9873 463 MANTUCKET GLEN	SAN DIEGO, CA.	92127	K6GDF GREGORY, ROBERT	461-0124 6365 CASSELBERRY WY.	SAN DIEGO, CA.	92119
N6MK KIESNER, C. MILTON	942-8747 7925 AVENIDA DIESTRO	ESCONDIDO, CA.	92027	K6GDM FRANKLIN, JIM	726-4022 2174 FOOTHILL DR.	VISTA, CA.	92084
N6GMS PEVNEY, JOE	729-1401 4134 SKYLINE RD.	CARLSBAD, CA.	92009	N6GJE CALL, ELEANORE	729-0850 2248 JEFFERSON ST	CARLSBAD, CA.	92008
K6GMPZ LINCOLN, CAROLINE	436-9983 1345 HYMETTUS AVE.	CARLSBAD, CA.	92008	K6GJR DORR, BARRY L.	944-0753 130 HONEYCOMB CT	ENCINITAS, CA	92024
K6GNS GRAF, JOHN	630-6864 185 SANTA MARIA CT	LEUCADIA, CA.	92024	K6GJW BREDINUS, MARILYN R.	692-0953 955 HARBOR ISLAND DR #145	SAN DIEGO, CA	92101
K6GNT FILIPPO, STEVE	598-1124 2225 PRIMROSE AVE.	VISTA, CA	92083	N6GOLC COY, BRUCE H.	792-5402 12584 PORTADA PL	SAN DIEGO, CA.	92130
N6GHW BAKER, ARTHUR B.	749-3458 8975 LAWRENCE WELK DR 390	ESCONDIDO, CA	92026	N6GNI EGDAL, JOHN	729-2156 4208 HIGHLAND DR.	CARLSBAD, CA.	92008
N6MVC KNAB, DAVID H.	453-2361 3516 TONY DRIVE	SAN DIEGO, CA	92132	K6GQJ ALLEN, CHRISTOPHER	1434 VANESSA CIRCLE	ENCINITAS, CA	92024
K6GMW THOMPSON JR., LEONARD C.	729-1019 1715 BONNEYVILLE DR	SPRING VALLEY, CA	92077	N6GQA WARNER, RUSS	489-0280 1402 WESTWOOD PLACE	ESCONDIDO, CA.	92025
K6GMJ WOODWARD JR., E. J.	439-7056 4225 TRIESTE DR	CARLSBAD, CA	92008	N6GQF RATH, NORMAN H.	721-1653 1096 TURNSTONE WAY	OCEANSIDE, CA	92057
K6GMH LUTTMAN, J. E. "TED"	3731 PARK DR.	OCEANSIDE, CA	92054	N6GQO GONSETT, BOB	723-2700 2685 ALTA VISTA DR.	FALLBROOK, CA	92028
N6MYN DIPERT, STEPHEN "DICK"	419 EL DORADO DR.	CARLSBAD, CA.	92008	N6GVA TRAPOLINO, MARK	632-1264 7727 CAMINITO MONARCA 107	CARLSBAD, CA.	92009
N6MAU PAKASKI, TED	1542 WILSON RD.	CARLSBAD, CA.	92008	N6GVV VERNACCHIA, ORLANDO	578-0427 8946 HILLERY DR.	SAN DIEGO, CA.	92126
N6NBH DOIG, AL	2008 SEQUOIA CREST	ESCONDIDO, CA.	92025	N6GWE ALDEN, HERB	940-1840 3698 VIA BERNARDO	OCEANSIDE, CA	92056
N6NBH BOYD, GERALD G.	2765 CORDOBA COVE	RAMONA, CA	92065	N6GWW ROWCLIFFE, DAN "HAGAR"	698-7874 6271 MERCED LAKE AVE.	SAN DIEGO, CA	92119
N6NKB GALLEGOS, MARCEL M.	2655 LAS PALMAS AVE.	VISTA, CA	92014	K6GZX BANANDO, JOSEPH P.	749-8217 30565 ALTA MESA DR	VALLEY CENTER, CA	92082
N6NKF ANTONIO, FRANKLIN	2655 LAS PALMAS AVE.	ESCONDIDO, CA.	92025	N6GR STEDMAN, DUANE J.	753-4821 1614 EDILEE DR.	CARDIFF, CA.	92007
K6GNX ASHLEY, JO	2233 VISTA GRANDE DR.	ESCONDIDO, CA.	92025	N6RAO WILHELMY, LOREEN	756-3133 P.O. BOX 2448	RANCHO SANTA FE, CA.	92067
K6GNM ASHLEY, A. J.	13633 CATAMBA DR.	VISTA, CA.	92084	N6GRB SINN, FRED	434-8597 P.O. BOX 4324	CARLSBAD, CA	92008
N6GNN RIVERA, BOB	416 BONAIR ST.	POWAY, CA.	92064	N6RBS OLSON, KEN	741-0040 1406 VIA VALENTE	ESCONDIDO, CA	92029
N6NNI SCHLESINGER, MARK M.	416 BONAIR ST.	LA JOLLA, CA.	92037	N6RHS STEDMAN, PATRICIA	753-4821 1614 EDILEE DR.	CARDIFF, CA.	92007
N6NMP HEALEY, WILMA	1320 MORNING GLORY PL	LA JOLLA, CA.	92037	K6RTH ROBERTS, EDWARD I.	729-9115 1305 TAMARACK AVE.	CARLSBAD, CA	92008
N6NMP HEALEY, THOMAS	1022 OLD TAYLOR ST.	VISTA, CA.	92037	N6RHH GOODLEY, MARK D.	480-4477 3120 RYAN DR.	ESCONDIDO, CA	92025
K6GNPH NORMAN, MATTHEW J.	1040 S. HALE AVE #22	VISTA, CA.	92084	K6GRNV O'CONNOR, STEVEN P "DOC"	789-5340 P.O. BOX 448	RAMONA, CA	92065
N6NQZ HULBERT, DONALD	3505 BADILLO RD	ESCONDIDO, CA	92029	K6GRW CARIAGA, RAUL F.	575-1941 1451 SATURN BLVD APT 105	SAN DIEGO, CA	92154
K6GNRB MOSSMAN, SHANNON L.	3079 GOLF CREST RIDGE RD	SAN MARCOS, CA.	92069	K6GRW HILTZ, SHERRY L.	P.O. BOX 6228	OCEANSIDE, CA	92058
K6GNRL KLEIN JR., FRED	3175-D EVENING WAY	EL CAJON, CA	92019	K6GRS SAUNDERS, MIKE	727-4286 3502 DE LEONE RD	SAN MARCOS, CA	92069
K6GNSA DUMLAO, DAVID	14120 DURHULLEN DR.	LA JOLLA, CA	92037	N6GRY NEUMAN, JOHN S.	471-0034 822 LAURELWOOD CT.	SAN MARCOS, CA.	92069
K6GNTW WRAY, JOHN L. KMGGE	730 PEARWOOD ST.	POWAY, CA.	92064	N6GRV GRANT, STEPHEN R.	422-4415 434 JAMES CT	CHULA VISTA, CA	92010
N6GNV MC CONAHAY, JIM C.	4234 VIA CLEMENTE	OCEANSIDE, CA.	92056	N6RVO MARTINA, JOSEPH F.	433-6885 4462 IBIS WAY	OCEANSIDE, CA.	92057
N6GNV COATES, WALTER F.	P.O. BOX 711825	OCEANSIDE, CA	92057	N6RWB HAW, JR, ROBERT A.	470-9238 456 RIDGEWAY CT	SPRING VALLEY, CA	91977
N6GNR O'NEIL, BYRON W. "JACK"	P.O. BOX 301543	SANTEE, CA	92072	N6RWV WILMS, WAYNE A.	724-0777 1215 SUNNY CREST CIRCLE	VISTA, CA	92084
K6GNX CAUDLE, THOMAS K.	P.O. BOX 301543	ESCONDIDO, CA.	92030	K6RXX MIRDA, RICHARD	942-5497 3204 FOSCA ST.	CARLSBAD, CA	92009
K6GNZA BURGESS, MARY	2012 APPLEWOOD LANE	ESCONDIDO, CA.	92030	KKGRX DE PAOLA, SALVATORE "SAL"	451-1588 14750 CARMEL RIDGE RD	SAN DIEGO, CA	92128
N6NZX BURGESS, CARL W.	1700 KINGLEY RD.	VISTA, CA	92083	N6RZY HASON, ART J.	283-7457 P.O. BOX 23535-204	SAN DIEGO, CA	92123
N6GO COOPER, JIM	196 CALLE GUERNICA	SAN MARCOS, CA.	92069	K6GRZA CHRISTENSEN, REY J.	727-9254 262 EL VALLE OPULENTO	VISTA, CA	92083
N6GOB MAYES, PETE	18218 PARADISE MTN RD	SAN MARCOS, CA.	92069	K6GSA RICE, ROBT W "BOB"	724-3558 3130 MORNINGSIDE DR.	OCEANSIDE, CA.	92056
N6GOG STEWART, AUDREY L.	1907 COLUMBIA ST - #3	VALLEY CENTER, CA	92082	N6SAX PARKER, MARSH	272-1409 4166 TAOS DR.	SAN DIEGO, CA.	92117
N6GOU HAMILTON, GRANT H.	1421 YORK AVE	SAN DIEGO, CA	92101	KEGSE FULCHER, CHARLES O.	941-1576 3809 CELESTE DR.	OCEANSIDE, CA	92056
N6OEI LUMATI, MATTHEW G.	2047 STILLMAN ST	ESCONDIDO, CA	92101	N6GSEU HIGGINS, ROSE-MARIE	434-7612 2530 VIA ASTUTO	CARLSBAD, CA	92008
K6GUEI MILAZZO, PHILIP	178 BALTIMORE DR.	SELMA, CA	93662	N6SGO SHIELDS, FREDERICK V.	460-9305 5966 DUGAN AVE	LA MESA, CA.	92042
N6GOUH WALLACE, LEONA	11012 AVENIDA MARIA	LA MESA, CA	91942	N6SHB PARTIDGE, KELLEY	695-9790 10675 RED CEDAR DR.	SAN DIEGO, CA.	92131
K6GHP MILLSAP, DON	3959 SYME DRIVE	SAN DIEGO, CA.	92129	N6SJO HOLMES, MELVIN R.	722-5168 615 FREDRICKS AVE #107	OCEANSIDE, CA	92056
N6GOL TENSOR, JOHN	1249 NORDAHL RD.	CARLSBAD, CA	92008	KJGSK BLOODGOOD, WALT T.	758-3276 219 POND PL.	VISTA, CA.	92083
K6GDLZ STEPHENS, JAMES T.	27250 MURTIETTA RD #95	ESCONDIDO, CA.	92026	N6GSM HORGAN, JOHN	2430 GALAHAD RD.	SAN DIEGO, CA.	92123
A6GOM MASSIE, L.B. "RUSTY"	3601 LAREDO ST.	CARLSBAD, CA	92008	N6SCH BESCHER, JOHN	P.O. BOX 2825	RANCHO SANTA FE, CA	92067
K6GOMA STEPHENS, VESTA N.	3335 CAMINITO VASTO	SUN CITY, CA	92381	KJGSM FELKER, RICHARD G.	728-5795 1616 DICKEY ST.	FALLBROOK, CA.	92028
N6OHL POWELL, RICHARD A.	18215 CORTE DE CASARES	CARLSBAD, CA	92008	N6STB WINTERBOURNE, STEVE	451-6672 18520 LOCKSLEY ST.	SAN DIEGO, CA.	92128
N6OPD CRABTREE, JACK	18218 PARADISE MTN RD	LA JOLLA, CA	92037	N6GSVN WANDSCHNEIDER, HERB	722-2803 760 E BOBBER DR #155	VISTA, CA	92084
N6OSR MAGNET, ANDREW DEAN	1577 ROMA DR.	LA JOLLA, CA	92037	N6GT TILLEY, AUBRA	742-3735 P.O. BOX 429	PAUMA VALLEY, CA.	92061
N6OVP LIEN, DAVID A.	6255 RADCLIFFE DR	SAN DIEGO, CA.	92128	K6GTAY BRANSFORD, JERRY	743-8134 1824 SUNBURY ST.	ESCONDIDO, CA	92026
K6GOXZ SMITH, WALTER E.	375 WOODLAND HILLS DR.	VALLEY CENTER, CA	92082	N6GTA GATES R.R. "BOB"	729-1976 1777 BUTTERS RD.	CARLSBAD, CA.	92008
N6OYG MUSIL, VICTOR		VISTA, CA	92083	N6GTB MC CORD, BILLY	724-3837 222 WASHINGTON ST.	VISTA, CA.	92084
N6OYJ MUNN, R. E. (ED)		SAN DIEGO, CA.	92122	N6TCB CARTER, JERRY A.	743-4212 2435 OUR COUNTRY RD.	ESCONDIDO, CA.	92029
K56P STUART, RODGER		ESCONDIDO, CA.	92029	N6TDC MILLER, LEE	724-7460 630 CORTEZ AVE.	VISTA, CA.	92084

N6TEP NIELE, CHARLES	471-0439 856 REDBERRY CT.	SAN MARCOS, CA.	92069	K76X BUSCEMA, PAUL	436-2537 343 WHITEWOOD PL.	ENCINITAS, CA.	92024
N6TET SIMPSON, IVAN	726-7148 3669 JEWEL ST.	SAN DIEGO, CA.	92109	N6XMY CALLENDER, WILLIAM H.	566-7290 10861 SANDY HOOK RD	SAN DIEGO, CA.	92126
N6TFB MUNT, LLOYD	757-9374 3747-102 VISTA CAMPANA S.	OCEANSIDE, CA.	92057	N6XPP LANDEL, KEVIN L.	944-1396 46 BRIGGS AVE.	ENCINITAS, CA.	92024
K1G1G DOWLING JR., C W "CHUCK"	272-3503 3244 NEOSHO PL	SAN DIEGO, CA.	92117	N6XIT FILIPPO, TANNIE	598-1124 2225 PRIMROSE AVE.	VISTA, CA.	92083
N6THC SPANGLER, RAYMOND G. "RAY"	729-2001 3774 SKYLINE RD	CARLSBAD, CA.	92008	N6XIU TAYLOR, CURTIS R.	727-9254 262 EL VALLE OPULENTO	VISTA, CA.	92083
N6THU PAUL, FLOYD A.	242-8961 1545 RAYMOND AVE	GLENDALE, CA.	91201	N6XXV STIDD, CHARLES K. (SAM)	481-5286 4005 CARMEL VIEW RD - #61	SAN DIEGO, CA.	92130
N6TJT KRAMARICH, CHUCK	741-1827 880 E WASHINGTON AV UN. A	ESCONDIDO, CA.	92025	N6YAI STEINWEDDEL, "BILL"	727-2875 2036 BUENA CREEK RD	VISTA, CA.	92084
N6TLL HASKELL, WM.S. "SCOTTY"	727-8836 1105 HAPPY HILL DR.	VISTA, CA.	92084	KK6YB MORRIS, GARY A.	480-2917 2155 AMANDA LANE	ESCONDIDO, CA.	92029
K66TLW SHETTEL-NEUBER, JOYCE	465-0831 8466 ABILENE TER	LA MESA, CA.	91342	N6YEL HO, JUNG-CHING	458-1678 4067C MIRAMAR ST.	LA JOLLA, CA.	92037
K66TNI HELDLING, ANTHONY	758-3603 4704 MYSTIK RD.	OCEANSIDE, CA.	92056	K86YHY NYE, ANITA M.	758-0234 1869 ALESSANDRO TRAIL	VISTA, CA.	92084
K66TPS EDWARDS, CHERI	578-1025 7985 HANDEL WAY	SAN DIEGO, CA.	92126	K86YHZ NYE, ARTHUR PAUL	758-0234 1869 ALESSANDRO TRAIL	VISTA, CA.	92084
A66TR MOSKOWITZ, MARK	944-0145 2301 LEVANTE ST.	CARLSBAD, CA.	92009	N6YJU SCHWEIZER, EARL G.	753-8096 P.O. BOX 532	CARDIFF BY THE SEA, CA	92007
N6TRS TIPPIT, DON	723-8319 2233 S STAGECOACH LANE	FALLBROOK, CA.	92028	N6YLA BALKE, JERRY	758-1134 746 HONEYDEW LN.	VISTA, CA.	92084
K66TSR BALDERAHRA, SCOTT A.	745-0851 1051 ROCKSPRINGS RD. #141	ESCONDIDO, CA.	92026	K66YLA MIELY, RONALD R.	753-9343 3030 GARBOSA ST	CARLSBAD, CA.	92009
N6TUR WAGNER, LED F.	941-6756 1441 PHIL MAR LN.	VISTA, CA.	92083	N66YLT SAMPSON, WILLIAM E.	480-1436 1505 EL NORTE PKWY	SAN MARCOS, CA.	92069
KK6TV URAN, NICHOLAS W.	745-7696 1497 MCKINLEY AVE.	ESCONDIDO, CA.	92027	N6YMC LUSBY, PETER	598-9322 P.O. BOX 2256	VISTA, CA.	92085
K86TVZ HANSON, DIANE "FRENCHIE"	723-0620 P.O. BOX 430	FALLBROOK, CA.	92028	N6YMD LEPINE, JOE E.	941-6823 1205 N. SANTA FE AV #17	VISTA, CA.	92084
N6TXK EARL, RONALD C.	566-1959 11372 IRONWOOD RD.	SAN DIEGO, CA.	92131	N6YMH SHIPPEY, GEORGE	728-5914 2420 HELEN RD.	FALLBROOK, CA.	92028
K66TYT GOODMAN, PHILIP R.	944-7741 7535 CADENCIA ST.	CARLSBAD, CA.	92009	N6YOW HODGES, HARRY	743-4212 2435 OUR COUNTRY RD.	ESCONDIDO, CA.	92029
K66TYU STEINBERG, GARY	726-6636 2267 ALTA VISTA DR.	VISTA, CA.	92084	K66YOW OLDHAM, C.A. "CHUCK"	758-8326 156 - 20 POND PLACE	VISTA, CA.	92083
K66TYV STEINBERG, ART	726-6636 2267 ALTA VISTA DR.	VISTA, CA.	92084	K66YX BENNETT, WILLIAM G.	433-4626 3537 STRAWBERRY PL	OCEANSIDE, CA.	92056
K66TYX HOGGATT, MICHAEL L.	743-9539 1419 QUEENSTON DR.	ESCONDIDO, CA.	92027	N6YRS THIEME, JESS	598-1124 2225 PRIMROSE	VISTA, CA.	92083
N6GUU PENNINGTON, WALTER	3544 E. SOUTHERN #104	MESA, AZ	85204	N6YX BELL, BOB	745-3722 1926 ALEXANDER DR.	ESCONDIDO, CA.	92025
K66UAI THOMPSON, ERIK	436-5550 962 HYMETTUS AVE.	ENCINITAS, CA.	92024	N6YVY BURDETTE, SAMUEL EARL	726-2624 4718 WESTRIDGE DR.	OCEANSIDE, CA.	92056
N6GUAL BIERKE, OLIVER G.	433-5117 2082 COSTA VISTA WAY	OCEANSIDE, CA.	92054	N6YZZ ROHRER, LINDA D.	749-0276 30311 CIRCLE R LN	VALLEY CENTER, CA	92082
K66UDY RORABAUGH, GREG	276-4665 4665 GESNER ST.	SAN DIEGO, CA.	92117	N66Z DENTON, WILLIAM H.	443-8775 9633 FARMINGTON DR.	LAKESIDE, CA.	92040
N66UGG WILSON, WELSEY L.	2227 THUMBKN LANE	VISTA, CA.	92084	N66Z PARTRIDGE, DELMAR E.	635-9790 10675 RED CEDAR DR.	SAN DIEGO, CA.	92131
K66UHH BROWN, DEBBIE	758-5820 1450 HEDIONDA AVE.	OCEANSIDE, CA.	92056	N6ZHN GUILAS, EMILIANO P.	422-7947 522 WOODHOUSE AVE.	CHULA VISTA, CA	91910
N6UIA BARRY, STEVE	747-7496 954 CIMMARON TR.	ESCONDIDO, CA.	92029	N6ZJC BARCROFT, JOHN	587-8061 4286 FARLEY CT	SAN DIEGO, CA.	92122
N6UIT VALADEZ, JOSE "FELIPE"	271-6079 8993 COVINA ST.	SAN DIEGO, CA.	92126	N6ZJV JACOBS, J. RICHARD "JAY"	471-9143 526 DEBRA PLACE	SAN MARCOS, CA.	92069
K6UL KWIETNIENSKI, MITCHELL Z.	274-1434 3728 1/2 A INGRAHAM ST.	SAN DIEGO, CA.	92109	N6ZNE TENNEBAUM, TERRY D.	789-4059 25228 KERRI LANE	RAMONA, CA.	92065
A66UQ NEWLOVE, JACK	726-9758 1111 PORTOLA ST.	VISTA, CA.	92084	K6ZNO BERNHARD, ERWIN	727-6489 1930 W SN MARCOS BL #108	SAN MARCOS, CA.	92069
K66UHM MC BRIDE, ART	741-8143 2165 VILLA FLORES GLEN	ESCONDIDO, CA.	92029	N6ZOP WEBER, R. SCOTT	546-0444 6153 STETSON PL	SAN DIEGO, CA.	92122
N6URW TYLER, JR., JOHN E.	753-9545 853 SUNRICH LANE	LEUCADIA, CA.	92024	N6ZPT MILLER, PHILIP	944-6227 1016 HERMES AVE	LEUCADIA, CA.	92024
N66UTR RUESSER, LARRY	758-5820 1450 HEDIONDA AVE.	VISTA, CA.	92083	N6ZPU LANGHANS, CHAD A.	747-8008 1800 NAVAJO PLACE	ESCONDIDO, CA.	92029
A66UW LEMING, VERNON LEE	789-3070 413 ELEVENTH STREET	RAMONA, CA.	92065	N6ZRC HART, LARRY D.	2108 VIA TIEMPO	CARDIFF, CA	92007
N6UWU JAFFE, ROGER	697-6025 7185-M NAVAJO ROAD	SAN DIEGO, CA.	92119	N6ZSY CRAW, PAUL E.	479-3236 2315 E. 5TH ST.	NATIONAL CITY, CA	91950
K66VU BERNARDINI, F. KERNEIL	295-4788 3506 UNION ST.	SAN DIEGO, CA.	92103	N6ZUC LOW, TIM	741-1054 2946 AMANECEER PLACE	ESCONDIDO, CA.	92027
N66UG JORSENSEN, EDWARD H.	728-1895 4927 LAKE PARK CT	ESCONDIDO, CA.	92026	N7AMR WILLETT, ALLEN	434-5656 4722 BIRCHWOOD CIR.	CARLSBAD, CA.	92008
N6UWU UTSCHIG, ELLEN E.	630-0950 1050-19 LA TORTUGA DRIVE	VISTA, CA.	92083	N7AS GRANT, GARY G.	487-8353 16925 HIERBA DR - #336	SAN DIEGO, CA.	92128
N6UWU WILLINAN, KATIE	484-4903 13523 BENBOW CT.	SAN DIEGO, CA.	92129	N7BLM MULLINS, DAN S.	1642 ALVARADO ST.	OCEANSIDE, CA.	92054
N6UWU WILLINAN, LEX	484-4903 13523 BENBOW CT.	SAN DIEGO, CA.	92129	N7HGS THIELE, AL	755-7347 3444 LADY HILL RD.	SAN DIEGO, CA.	92130
N6UZH ASHLEY, TERESA "TERRI"	566-7336 3505 GOLD COAST DR #127	SAN DIEGO, CA.	92126	N7HKI LARSON, D. LARRY	432-5855 108 SHERRI LANE	OCEANSIDE, CA.	92054
A66V DINKINS, RODNEY R.	945-6050 4982 MARIN DR.	OCEANSIDE, CA.	92056	N7HQ FITTERER, DANIEL	789-0943 2030 BLACK CANYON RD - #4	RAMONA, CA.	92065
N66V DE MONTGORE, LARRY	726-0353 750 CRESTVIEW RD.	VISTA, CA.	92083	N7IRE HITNEY, CHARLES J.	741-7128 475 ROSS DR.	ESCONDIDO, CA.	92029
K66VEC GRIFFITH, DAVID	689-0040 10627 DABNEY DR. #45	SAN DIEGO, CA.	92126	N7QGH "NUGGET" HEAD, PATRICK (P.J.)	4897 KINGS ROW CIRCLE	SALT LAKE CITY, UT	84117
K66VEE WEAVER JR., LINDSEY "BUTCH"	455-7651 3419 TONY DR.	SAN DIEGO, CA.	92122	N7RJD ROSLER, GREG	223-4072 USS LAJOLLA (SSN701)	SAN FRANCISCO, CA.	96671
K66VFZ CONTOGENIS, ALICE	749-2699 13964 PAUMA VISTA DR.	VALLEY CENTER, CA.	92082	N7TV FARRIS, TIM	1474 SUNDANCE WAY	OCEANSIDE, CA.	92056
K66VP MC KAY, RICHARD W. (DICK)	377-2789 27532 ELMBRIDGE DR.	RANCHO PALOS VERDES, CA	92074	N7WV KNIGHT JR., JOHN A.	530-0355 11224 POLARIS DR.	SAN DIEGO, CA.	92126
K66VNR PRESSMAN, DAVID	259-2828 4770 SUN VALLEY RD	DEL MAR, CA.	92014	N7WV O'BERRY, JAMES A.	2501 WOODLAND BLUFF DR.	HEBER SPRINGS, AR	72543
K66VNA WOOD, HENRY N.	452-1904 8370 VIA SONOMA #B	LA JOLLA, CA.	92037	K7WLI FELTON, BOB	729-5519 4803 NEBLINA DR.	CARLSBAD, CA.	92008
A66VO BAUM, STEPHEN P.	723-2425 2404 VIA DEL AGUACOTE	FALLBROOK, CA.	92028	K7WMA LAMBERT, DAVID A.	489-8465 1524 BROOK RD	SAN MARCOS, CA.	92069
K66VX CHANTRILL, ROBERT	727-0606 1961 PINWOOD RD.	VISTA, CA.	92083	N8BAD BURTON, LIONEL "DOC"	744-9431 637 RICHARD RD	SAN MARCOS, CA.	92069
K66VX LINCOLN, CHESTER "BUD"	436-9983 1345 HYMETTUS AVE.	LEUCADIA, CA.	92024	N8BBHE ENGARDIO, TOM	598-7534 1941 CHERRYWOOD ST	VISTA, CA.	92083
N6GW DE BEER, LOUIS	437-8351 845 E. AVE #C	CORNADO, CA.	92118	N8BHY PRATT JR., JAMES A.	430-1368 208 BOXWOOD ST	OCEANSIDE, CA.	92054
N6GW KENT, JOHN L.	729-5254 3920 HOLLY BREA LN.	CARLSBAD, CA.	92008	N9AKB CARLSEN, KENNETH	434-3256 4904 PARK DRIVE	CARLSBAD, CA.	92008
K66WAN POWELL, RALPH E.	727-7415 559 ALAMITOS WAY	SAN MARCOS, CA.	92069	N9AOX WILSON, DONALD G.	944-0378 3110 LEVANTE ST.	CARLSBAD, CA.	92009
N6WEF LOWDEN, FRANK G.	745-2076 P.O. BOX 298	ESCONDIDO, CA.	92033	N9FOW ROHRER, STAN	749-0276 30311 CIRCLE R LANE	VALLEY CENTER, CA.	92082
N6WEG LOWDEN, MARY LEE	745-2076 P.O. BOX 298	ESCONDIDO, CA.	92033	N9KAB CORRIGAN JR., EARL H.	10303 CALIFORNIA	CHICAGO, IL	60655
N6WFF KOENIG, JOHN H.	566-6136 10210 SALUDA AVE.	SAN DIEGO, CA.	92126	N9NII HARRIS, GREGORY J.	429-1590 231 ELM AVE	IMPERIAL BEACH, CA	92032
N6WGT HARKER, HARLAND "HARK"	724-2111 607 VIA DEL MAR	VISTA, CA.	92083	N99RKN DAVIS, ROY H.	464-2625 7217 RONDEL COURT	SAN DIEGO, CA.	92119
N6WLX BRAMDT, KARL H.	746-3136 425 N HICKORY ST #205	ESCONDIDO, CA.	92025	K9AVKO KOESTER, MICHAEL	471-9752 353 W SAN MARC. BL #246	SAN MARCOS, CA.	92069
N6WPD PRIEST, BILL	727-4279 3535 LINDA VISTA Dr - #62	SAN MARCOS, CA.	92069	N9WV HANSON, LOYAL M "MAC"	723-0620 P.O. BOX 430	FALLBROOK, CA.	92028
K66WBA SULLART, ABEL	825 HUCKLEBERRY LANE	ESCONDIDO, CA.	92025	ASSOC POTTER, MICHAEL R.	4591 BLACKWELL RD	OCEANSIDE, CA.	92056
N6WQI NOUL JR., EDWARD B.	940-9403 220 E. CONNECTICUT AVE.	VISTA, CA.	92084	ASSOC CROUSE, DARREN R.	753-8910 1520 SAXONY RD	ESCONDIDO, CA.	92026
N6WQR ROSENBERG, BERNICE	433-0711 P.O. BOX 372	SAN LOUIS REY, CA	92068	K66ZKI TULLIS, R.H. "RICK"	729-6787 3640 CATALINA DR	CARLSBAD, CA.	92008
K66WRI EARL, JEANNIE	566-1959 11372 IRONWOOD RD	SAN DIEGO, CA.	92131	ASSOC HOWALT, BILL	757-2221 5274 LEON ST	OCEANSIDE, CA.	92057
K66WRK EARL, SCOTT	566-1959 11372 IRONWOOD RD	SAN DIEGO, CA.	92131	ASSOC STORKE, TED	513 ALLSPICE WAY	OCEANSIDE, CA.	92057
A66WS SABA, DONALD G.	295-8782 2464 MARILUISE WAY	SAN DIEGO, CA.	92103	ASSOC LARSON, WILBERT T.	5209 COLONIAL WAY	OCEANSIDE, CA.	92057
N6WUY SANFORD, MICHAEL	345-5938 P O BOX 204	VALHALLA, NY	10595	ASSOC COURTNEY, B.C. "RED"	741-7128 475 ROSS DR.	ESCONDIDO, CA.	92029
N6WSW MILLER, STEWART S.	438-1668 2814 LUCIERNAGA ST	CARLSBAD, CA.	92009	ASSOC HITNEY, LOUISE	724-5037 1355 KELGLEN LANE	VISTA, CA.	92084
N6WTE PARKINSON, JAMES	598-1615 254 EL VALLE OPULENTO	VISTA, CA.	92083	ASSOC RIBER, MICHAEL	480-4860 1029 FICUS LANE	SAN MARCOS, CA.	92069
N6WWT FRANKLIN, OLIVIA	726-4022 2174 FOOTHILL DR.	VISTA, CA.	92084	ASSOC HENDERSON, JAMES "JAY"	727-9254 262 EL VALLE OPULENTO	VISTA, CA.	92083
N6WUI SHIRLEY, MIKE P. "MIKE"	529-7078 P.O. BOX 460	LAKESIDE, CA.	92040	ASSOC CHRISTENSEN, PATRICIA	729-1579 2748 WATERBURY WAY	CARLSBAD, CA.	92008
K66WZ FREY, FREDERICK	729-2991 3449 CORVALLIS ST.	CARLSBAD, CA.	92008	ASSOC HOWARD-JONES, TONY			



K65FR ALBRECHTSEN, LOUIS  
 K66WE ALDEN, HERB  
 K6600J ALLEN, CHRISTOPHER  
 WAIZEN ANES, TIMOTHY E.  
 K6681M ANDERSON III, WM. J. (BILL)  
 K66NKF ANTONIO, FRANKLIN  
 K66AST ARBUTHNOT III, G. LANE  
 NOLYM ARMITAGE, LEE D.  
 K66JZH ASHLEY, TERESA "TERRI"  
 K66NKM ASHLEY, JO  
 K66NML ASHLEY, A. J.  
 K66NUH BAKER, ARTHUR B.  
 K66TSR BALDERRAMA, SCOTT A.  
 K66YLA BALKE, JERRY  
 K66HLY BALL, CARL LEWIS  
 K66GXU BANAMDO, JOSEPH P.  
 K66TZM BANKE, KERRY  
 K66ZJC BARCROFT, JOHN  
 K66PDZ BARKER, FRED  
 K66PEA BARKER, MARY  
 K66JUA BARRY, STEVE  
 K66CV BASTON JR., JOSEPH G.  
 K66VO BAUM, STEPHEN P.  
 K66WH BAUMGARTNER, VERN  
 K66SUS BECK, DONALD R.  
 K66FY BELFIELD, SCOTT P.  
 K66YX BELL, BOB  
 K66YOX BENNETT, WILLIAM G.  
 K66BEJ BENSON, THEODORE "TED"  
 K66JA BERG, PETER  
 K66UV BERNARDINI, F. KERNEIL  
 K66ZOO BERNHARD, ERWIN  
 K66SMW BESCHER, JOHN  
 K66PRH BISHOP, LARRY A.  
 K66UAL BJERKE, OLIVER G.  
 K66KXD BLAIS, PHILIP L.  
 K66SK' BLOODGOOD, WALT T.  
 K66HI BOURHENNE, ALMA J.  
 K66FMK BOWEN, BILL  
 K66NJJ BOYD, GERALD G.  
 K66WLX BRANDT, KARL H.  
 K66TAY BRANSFORD, JERRY  
 K66QJW BREDINUS, MARILYN R.  
 K66ZU BREDINUS, MICHAEL J.  
 K66CKQ BROADBENT, LOUIS C.  
 K66HHV BROCK, MIKE  
 K66BRX BROUILLET, PAUL  
 K66ICH BROWN, THOMAS F.  
 K66FX BROWN, JIM  
 K66UWH BROWN, DEBBIE  
 K66DSC BRUIN, BETTY B  
 K66YVY BURDETTE, SAMUEL EARL  
 K66NZA BURGESS, MARY  
 K66NIZ BURGESS, CARL W.  
 K66AD BURTON, LIONEL "DOC"  
 K66I BUSCEMA, PAUL  
 K66KL CALDWELL, BENTON  
 K66QE CALL, ELEANORE  
 K66NY CALLENDER, WILLIAM H.  
 K66RG CALVERT, CHUCK  
 K66HSZ CAMPBELL, JOHN R.  
 K66HD CAREY, RICHARD  
 K66RPF CARIAGA, RAUL F.  
 K66XB CARLSEN, KENNETH  
 K66IC CARRY, EDWARD  
 K66CB CARTER, JERRY A.  
 K66AT CASSEN, FRANKLIN  
 K66ES6 CASTAGNA, ED  
 K66NXZ CAUDLE, THOMAS K.  
 K66J CHAMBERS, ROBERT A. "BOB"  
 K66VX CHANTRILL, ROBERT  
 K66RZA CHRISTENSEN, REX J.  
 K66GWA CHRISTENSEN, PATRICIA  
 K66MUY COATES, WALTER F.  
 K66L CONTIGENIS, JOSEPH P.

K66VFZ CONTOGENIS, ALICE  
 K66JZB COOK, WALLY  
 K66GO COOPER, JIM  
 K66HQM COWLEY, DAVE  
 K66KAB CORRIGAN JR., EARL H.  
 K66HNS CORWIN, WILLIAM L.  
 K66SH COUNTRYMAN, BILL  
 K66GFC COURTNEY, B.C. "RED"  
 K66OLC COY, BRUCE H.  
 K66PD CRABTREE, JACK  
 K66HLB CRAIG SR., JOE  
 K66ISY CRAW, PAUL E.  
 K66HAY CROSSMAN, RALPH  
 K66NN CROSSMAN, PAT  
 K66GFC CROUSE, DARREN R.  
 K66PN CURRIER, RICHARD E.  
 K66INL DAU JR., WALTER K.  
 K66CA DAVIS, LAWRENCE L.  
 K66RKN DAVIS, ROY H.  
 K66W DE BEER, LOUIS  
 K66V DE MONTESQUE, LARRY  
 K66QB DE MONTESQUE, VINA  
 K66GX DE PAOLA, SALVATORE "SAL"  
 K66Z DENTON, WILLIAM H.  
 K66AHW DEWEY, WM. H. (BILL)  
 K66FT DI VECCHIO, MARK C.  
 K66LXA DIENGOTT, STANLEY J.  
 K66V DINKINS, RODNEY R.  
 K66MY DIPERT, STEPHEN "DICK"  
 K66HF DOBLER, RAY  
 K66NH DOIG, AL  
 K66JR DORR, BARRY L.  
 K66S DOWLING JR., C.W. "CHUCK"  
 K66KQ DOYLE SR., MIKE  
 K66NSA DUNLAD, DAVID  
 K66G DUTCHER, DAVID  
 K66IX EARL, RONALD C.  
 K66WRI EARL, JEANIE  
 K66WRK EARL, SCOTT  
 K66TPS EDWARDS, CHERI  
 K66NI EGDALH, JOHN  
 K66BHE ENGARDIO, TOM  
 K66H ENDCHS, GARY D.  
 K66GJ FANNESTOCK, MICKEY  
 K66N FANNESTOCK, ALBERT U.  
 K66TV FALLS, EDWARD L.  
 K66V FARRIS, TIM  
 K66SN FELKER, RICHARD G.  
 K66WL FELTON, BOB  
 K66Y FENSTERMACHER, BRUCE (TED)  
 K66IE FERRANTO, FELIX  
 K66MT FILIPPO, STEVE  
 K66XT FILIPPO, TAMMIE  
 K66HQ FITTERER, DANIEL  
 K66EY FLEISCHMANN, WM. (BILL)  
 K66JW FOLSON, RUSSEL A.  
 K66OH FRANKLIN, JIM  
 K66WZ FRANKLIN, OLIVIA  
 K66WZ FREY, FREDERICK  
 K66SE FULCHER, CHARLES O.  
 K66NB GALLEGOS, MARCEL M.  
 K66NY GATES, HOWARD W.  
 K66TBA GATES, R.R. "BOB"  
 K66QBD GEARHART, RICHARD L. "DICK"  
 K66BLZ GLIMPSE, ART  
 K66FX GOEPPINGER, ALBERT  
 K66GON GONSETT, BOB  
 K66BEZ GONSETT, JUDY  
 K66NM GOODLEY, MARK D.  
 K66TYT GOODMAN, PHILIP R.  
 K66PUN GORDON, DOUGLAS  
 K66GGA GOULART, ABEL  
 K66MS GRAF, JOHN  
 K66GD GRAHAM, THOMAS  
 K66P GRAHAM, EARL K66DC

K66RUV GRANT, STEPHEN R.  
 K66AS GRANT, GARY G.  
 K66GH GREGORY, ROBERT  
 K66VEC GRIFFITH, DAVID  
 K66GQ GRISWOLD, CHAS. D. "CHUCK"  
 K66PEN GUGLE, LARRY E.  
 K66ZM GUILAS, EMILIANO P.  
 K66FY HAFNER, JANET  
 K66IK HALE, WAYNE  
 K66CS HAMANN, MICHAEL A.  
 K66DU HAMILTON, GRANT H.  
 K66MEI HAMMOND, JOHN  
 K66V HANSON, LOYAL M. "MAC"  
 K66TV HANSON, DIANE "FRENCHIE"  
 K66JM HANTHORN, JACK E.  
 K66HG HARKER, HARLAND "HARK"  
 K66MD HARLAND, RAY  
 K66CN HARPER, JAMES H.  
 K66HII HARRIS, GREGORY J.  
 K66TV HART, LANE  
 K66ZC HART, LARRY D.  
 K66JP HARVEY, FLOYD  
 K66TL HASKELL, WM. S. "SCOTTY"  
 K66ICW HATEN, RICHARD "RICK"  
 K66W HAM, JR. ROBERT A.  
 K66NN HEALEY, WILMA  
 K66ND HEALEY, THOMAS  
 K66EE HEISE, DUANE  
 K66PP HEISMANN, PAUL  
 K66KN HEITGER, ROBERT L.  
 K66NI HELBLING, ANTHONY  
 K66G HENDERSON, JAMES "JAY"  
 K66IS HICKMAN, RAY F.  
 K66SE HIGGINS, ROSE-MARIE  
 K66GOW HILTZ, SHERRY L.  
 K66G HITNEY, LOUISE  
 K66IE HITNEY, CHARLES J.  
 K66Y HO, JUNG-CHING  
 K66YD HODGSON, HARRY  
 K66G HODGSON, CHARLES  
 K66TYX HOGGATT, MICHAEL L.  
 K66I HOLM, EDWARD A.  
 K66JQ HOLMES, MELVIN R.  
 K66DLW HONTS, C. N. "JACK"  
 K66HZ HOOVER, ROBERT  
 K66SN HORGAN, JOHN  
 K66P HORRALL, GENE  
 K66LRH HOUSER, JAN  
 K66FT HOUSER, JERRY L.  
 K66G HOWALT, BILL  
 K66G HOWARD-JONES, TONY  
 K66I HOY, TIM  
 K66JR HUCKABAY, WALT  
 K66V HUGHES, ROBERT  
 K66WZ HULBERT, DONALD  
 K66TF HUNT, LLOYD  
 K66RW INSKEEP, CHAS. G.  
 K66IM INSKEEP, CHAS. C. "CHUCK"  
 K66JV JACOBS, J. RICHARD "JAY"  
 K66UW JAFFE, ROGER  
 K66EP JOHNSON, ERIC  
 K66FW JOHNSON, DON J.  
 K66DB JOHNSON, GORDON  
 K66U JORGENSEN, EDWARD M.  
 K66JE KELLOUGH, DON S.  
 K66W KENT, JOHN L.  
 K66M KIESNER, C. MILTON  
 K66VM KINNEY, LYLE C.  
 K66IQ KIRK JR., HARVEY O.  
 K66PAR KIRKES, DIANE  
 K66PAS KIRKES, JIM  
 K66YQ KIRSCHNER, B.  
 K66NL KLEIM JR., FRED  
 K66V KNAB, DAVID H.  
 K66W KNIGHT JR., JOHN A.

K66WF KOENIG, JOHN M.  
 K66V KOESTER, MICHAEL  
 K66JL KOLB, JOHN  
 K66JT KRAMARICH, CHUCK  
 K66TE KRIST, R.F.  
 K66IS KUUVINEN, JOHN  
 K66L KUWETNIEWSKI, MITCHELL Z.  
 K66MY LA POINTE, JOE  
 K66SC LACKEY, PAUL  
 K66WA LAMBERT, DAVID A.  
 K66PP LANDEL, KEVIN L.  
 K66ZU LANGHANS, CHAD A.  
 K66DX LANGJAHR, CARL  
 K66HI LARSON, D. LARRY  
 K66G LARSON, WILBERT T.  
 K66SU LEMING, VERNON LEE  
 K66L LEONELLI, PHIL  
 K66YD LEPINE, JOE E.  
 K66V LIEN, DAVID A.  
 K66Y LINCOLN, WARREN  
 K66V LINCOLN, CHESTER "BUD"  
 K66MPZ LINCOLN, CAROLINE  
 K66ZC LOW, TIM  
 K66W LOWDEN, MARY LEE  
 K66W LOWDEN, FRANK G.  
 K66IOV LOWELL, RUSSELL A.  
 K66EI LUNATT, MATTHEW G.  
 K66YC LUSBY, PETER  
 K66MR LUTTMAN, J. E. "TED"  
 K66ZD MADRICK, DAVID S.  
 K66OR MAGNET, ANDREW DEAN  
 K66OR MAHONEY, BETTY J.  
 K66VO MARTINA, JOSEPH F.  
 K66YZ MASON, ART J.  
 K66OM MASSIE, L.B. "RUSTY"  
 K66OH MAYES, PETE  
 K66QU MC BRIDE, ART  
 K66GZ MC BRIDE, WILLERT "MAC"  
 K66EW MC CARTHY, MAC  
 K66RF MC CLUSKEY, PAUL  
 K66NUV MC CONAHAY, JIM C.  
 K66TB MC CORD, BILLY  
 K66FF MC CORMICK, MATT  
 K66BA MC CULLOUGH, LEO F. "MAC"  
 K66VP MC KAY, RICHARD W. (DICK)  
 K66GH MEAD, PATRICK (P.J.)  
 K66GS MEADOWS, JACK R.  
 K66RM MIELE, STEVE  
 K66TE MIELE, CHARLES  
 K66YLA MIELE, RONALD R.  
 K66OE MILAZZO, PHILIP  
 K66TD MILLER, LEE  
 K66CA MILLER, RAYMOND  
 K66SW MILLER, STEWART S.  
 K66PT MILLER, PHILIP  
 K66OH MILLSAP, DON  
 K66EX MIRAS, RICHARD  
 K66G MONDALA, PHILIP R.  
 K66HP MONTHEI, M. E. "GENE"  
 K66YB MORRIS, GARY A.  
 K66KE MORRIS, R. S. (STEVE)  
 K66R MOSKOWITZ, MARK  
 K66NR MOSSMAN, SHANNON L.  
 K66BL MULLINS, DAN S.  
 K66Y HUNN, R. E. (ED)  
 K66Y MUSIL, VICTOR  
 K66RT NEUMAN, JOHN S.  
 K66U NEWLOVE, JACK  
 K66PP NORMAN, TORRI L.  
 K66MP NORMAN, MATTHEW J.  
 K66HI NORMINGTON, PHILLIP B.  
 K66W NOLL JR., EDWARD B.  
 K66YH NYE, ARTHUR PAUL  
 K66YH NYE, ANITA M.  
 K66Y O'BERRY, JAMES A.  
 K66RV O'CONNOR, STEVEN P. "DOC"

K66NR O'NEIL, BYRON W. "JACK"  
 K66YV OLDHAM, C.A. "CHUCK"  
 K66RS OLSON, KEN  
 K66YU ORAN, SAMUEL  
 K66NU PAKASKI, TED  
 K66SAX PARKER, MARSH  
 K66PC PARKER, HARNI  
 K66TE PARKINSON, JAMES  
 K66PP PARROTT, RICHARD  
 K66VZ PARTRIDGE, DELMAR E.  
 K66SB PARTRIDGE, KELLEY  
 K66PS PASCHKE, VERN  
 K66V PASCHKE, MARY  
 K66GE PATCHEL, JUDITH  
 K66LW PATCHEL, HERBERT O.  
 K66TH PAUL, FLOYD A.  
 K66N PEARCE, ART  
 K66U PENNINGTON, WALTER  
 K66MS PEVNEY, JOE  
 K66G POTTER, MICHAEL R.  
 K66AN POWELL, RALPH E.  
 K66ML POWELL, RICHARD A.  
 K66NY PRATT JR., JAMES A.  
 K66VR PRESSMAN, DAVID  
 K66PO PRIEST, BILL  
 K66HY PUGH, DANIEL C.  
 K66HE RAMME, FRANK B.  
 K66OF RATH, NORMAN H.  
 K66AD REBER, JOHN  
 K66HV REICHMAN, ROBERT T.  
 K66AW REINICKE, JOHN R.  
 K66AV REMINGTON, TODD  
 K66S RIBER, MICHAEL  
 K66S RICE, ROBT W. "BOB"  
 K66PD RIDEOUT, ART  
 K66LE RITSELEY, JAMES P.  
 K66NN RIVERA, BOB  
 K66RW ROBERTS, EDWARD I.  
 K66OB ROHRER, SUSAN J.  
 K66FP ROHRER, BARBARA  
 K66ON ROHRER, STAN  
 K66YZ ROHRER, LINDA D.  
 K66UD RORABOUSH, GREG  
 K66WR ROSENBERG, BERNICE  
 K66GF ROSKY, DAVID S.  
 K66RD ROSLER, GREG  
 K66ZC ROSS, MARK W.  
 K66ZI ROSS, ED  
 K66MB ROSS, BETSY E.  
 K66JV ROUSE, HARRY A.  
 K66QU ROWCLIFFE, DAN "HAGAR"  
 K66AI ROWLETT, GUY  
 K66U RUEGSEGER, LARRY  
 K66VZ RUGG, JIM  
 K66XX RUNYON, TERRY S.  
 K66S SABA, DONALD G.  
 K66OC SALZARULO, MARK  
 K66YL SAMPSON, WILLIAM B.  
 K66BJ SANDFORD, GERRY M.  
 K66WY SANFORD, MICHAEL  
 K66RS SAUNDERS, MIKE  
 K66NI SCHLESINGER, MARK M.  
 K66HT SCHMIDT, GLENN A.  
 K66JU SCHWEIZER, EARL G.  
 K66S SEALS, KEN  
 K66CT SEAMAN, LARRY  
 K66HT SELF, WILLIAM J.  
 K66U SHAUT, STANLEY  
 K66TL SHETTEL-NEUBER, JOYCE  
 K66G SHIELDS, FREDERICK V.  
 K66NY SHIPLEY, GEORGE  
 K66W SHIPLEY, MIKE P. "MIKE"  
 K66CS SILVEIRA, JOSEPH A.  
 K66ET SIMPSON, IVAN  
 K66CD SIMPSON, BRUCE E.

K66RB SINN, FRED  
 K66OX SHITH, WALTER E.  
 K66NI SMITH, ARTHUR R.  
 K66MC SMITH JR., BILL J.  
 K66TH SPANGLER, RAYMOND G. "RAY"  
 K66R STEEDMAN, DUANE J.  
 K66NS STEEDMAN, PATRICIA  
 K66YU STEINBERG, GARY  
 K66TV STEINBERG, ART  
 K66YX STEINWEDDELL, BILL  
 K66OL STEPHENS, JAMES T.  
 K66MA STEPHENS, VESTA M.  
 K66DG STEWART, AUBREY L.  
 K66XV STIDD, CHARLES K. (SAM)  
 K66G STORKE, TED  
 K66P STUART, RODGER  
 K66YV SWADER, JOHN B. "JACK"  
 K66AS SWENSON, GEORGE A.  
 K66XU TAYLOR, CURTIS R.  
 K66NE TENNEBAUM, TERRY D.  
 K66L TENSOR, JOHN  
 K66PR THARP, DANNY R.  
 K66S THIELE, AL  
 K66YS THIESE, JESS  
 K66U THOMPSON, ERIK  
 K66MH THOMPSON JR., LEONARD C.  
 K66T TILLEY, AUBRA  
 K66RS TIPPIT, DON  
 K66HC TOTH, ALAN T.  
 K66U TRAPOLINO, MARK  
 K66ZI TULLIS, R.H. "RICK"  
 K66BI TUFANCY, OSCAR  
 K66UR TYLER, JR., JOHN E.  
 K66V URYAN, NICHOLAS W.  
 K66W UTSCHEIG, ELLEN E.  
 K66IT VALADEZ, JOSE "FELIPE"  
 K66V VERNACCHIA, ORLANDO  
 K66I VERNACCHIA, DENNIS  
 K66R VERNACCHIA, LEO F.  
 K66R VERNACCHIA, ROBERT G.  
 K66HE VERNACCHIA, MICHAEL J.  
 K66HB WALLACE, LEONA  
 K66SV WANDSCHNEIDER, HERB  
 K66AA WARD, JAMES N.  
 K66QA WARNER, RUSS  
 K66YC WART, WM. D. "BILL"  
 K66VE WEAVER JR., LINDSEY "BUTCH"  
 K66LV WEBER, CHARLOTTE  
 K66ZC WEBER, SCOTT  
 K66TC WEBER JR., CHARLES E.  
 K66W WEST, GORDON  
 K66U WEST, RICHARD D.  
 K66DC WHEELER, DUANE W.  
 K66OU WHIPPLE, BILL  
 K66RA WILHELMY, LOREEN  
 K66B WILHELMY, RON  
 K66AM WILLETT, ALLEN  
 K66BO WILLIAMS, RICHARD  
 K66BL WILLIAMS, JACK  
 K66CD WILLIAMS, A. NASH  
 K66SU WILLIAMSON, PAUL T.  
 K66W WILLIMAN, KATIE  
 K66U WILLIMAN, LEX  
 K66V WILMS, WAYNE A.  
 K66G WILSON, WELSEY L.  
 K66X WILSON, DONALD G.  
 K66B WINTERBOURNE, STEVE  
 K66V WONG, DENNIS  
 K66V WOOD, HENRY M.  
 K66P WOODBRIDGE, ED  
 K66W WOODWARD JR., E. J.  
 K66W WRAY, JOHN L. "MAGE"  
 K66I YACABUCCI, JAMES E.  
 K66R YOSHIDA, TOMOKI  
 K66R ZIEGLER, PETE

## NEWSLETTER HELPERS

- August 1991 SCOPE -

Members, Ads, Label, JoAshley .. KB6NMK  
 Membership Data, Bill Whipple N6COU  
 Billing Ad, etc, John Tentor . W6OLQ  
 Folding/Staples, Jack Hanthorn KI6JM  
 also provided QTH & refreshments  
 Folding/Staples, Lloyd Hunt .. W6TFB  
 Folding/Staples, Bill Whipple N6COU  
 also roster and label printing  
 Sorting . . . . Eleanore Call N6QJE  
 Printing/Forms, Stan Rohrer . W9FQN

Without these people life would  
 certainly be difficult. THANKS!!

If you live in the Vista area we  
 really could use some extra help.

Printed 500 Mailed 474

SCOPE's are costing about 36c to  
 produce and about 10c to mail.

#####  
 \*\*\* RECOGNITION of \*\*\*  
 ##### (thanks) #####  
 #####  
 David-KC6VMR for consenting to

take over the YOUNG PEOPLE'S net on  
 Saturday evenings at 7:30pm.

- BK -

Mark-AA6TR for more good pictures of  
 Field Day which will be added to  
 those we now have.

- BK -

John-KK6IL for the great  
 schematic on another electro  
 magnetic field detector. Your  
 diagram is much better than mine!

- BK -

Jim-N6ZUC for the April copy of  
 the STANISLAUS ARA newsletter from  
 Modesto, CA., and for a copy of an  
 IBM PC, XT, or AT compatible CW  
 computer disk which members can  
 borrow. We now have quite a few  
 code programs but still need  
 something for a C-64.

- BK -

Bob-N6YX for AGAIN giving the  
 club a big box of goodies: phones,  
 xcvs, test equipment, etc. Some of  
 the items will be used in club

projects and the rest taken to swap  
 meets.

- BK -

Jay-N6ZJV and Joe-N6YMD for  
 taking apart A1-WA6MYC's (SK) station  
 and antennas.

- BK -

Eleanore-N6QJE for helping with  
 the Picnic tickets at the club  
 meeting.

- BK -

Ken-N9AKB for the donation of a  
 telephone answering machine which  
 will be used by the club to benefit  
 amateur radio ..more on this later.  
 We are still looking for one more  
 unit.

- BK -

Ellen-N6UWW for L.A. paper on  
 Bob-WA6QQQ's well solution to the  
 drought in Fallbrook (I could use  
 some of that water-Ed).

- BK -



## FRENCHIE™

DIANE HANSON  
 833-A South Main Street, #439  
 Fallbrook, California 92028  
 United States

PHONE: 619/723-7698  
 FAX: 619/723-3518

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KB6TVZ

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 FULL-SERVICE TRAVEL PLANNING  
 - N6RAO -

LOREEN WILHELMY



## Patents

## Trademarks

## Copyrights

"Mac" - W9WV

LOYAL M. HANSON  
 Registered U.S. Patent Attorney  
 Fallbrook 723-0620

Chief West for allowing us to use  
 the CARLSBAD SAFETY CENTER for our  
 August meeting. It is a great  
 facility which we will try to use  
 more often in the future.

- BK -

Jim-KC6PAS for sending us the  
 most recent set of plans for the new  
 repeater bunker and for donating to

PARC a beautiful variac rated at  
 3,000 watts (22A) which we will  
 probably use at the repeater site.  
 Jim's plans were at the last meeting  
 and we will try to have updated  
 plans available for the September  
 meeting.

- BK -

Bill-KB6MCU for providing the

club with additional plans and new  
 ideas for the new repeater building.

- BK -

Jerry-WB6FMT for obtaining a  
 donation of +5v, +12v, +15, and +24v  
 power supplies from a local company.  
 These units will show up as battery  
 chargers and power supplies used for  
 the autopatch project.

- BK -

Mike-KC6KCQ for his consent to help with problems at the repeater site on Palomar Mountain where he lives.

\*\*\*\*\*  
\*\*\*\*\* - P I C N I C - \*\*\*\*\*  
\*\*\*\*\*

We had a beautiful day and the picnic was attended by 45 members and 8 guests although there were quite a few who did not sign-in.

Prizes were won by: Mark-AA6TR (\$100); Jack-KI6JM (\$75); Duane-WB6R (\$50); Carry-K6ICG (\$25); Micky-N6GWJ (\$25); Jo-KB6NMK (\$25). Don-N6TRS left early and lost out on a \$25 prize. Anna Moskowitz, AA6TR's daughter again fished the numbers out of the box. Anna just made it back from a summer's trip to Poland and she brought her grandfather back with her for several months and plans on doing a lot of fishing.

The DFing class was the biggest ever and after class they looked for

a hidden transmitter. Jo-KB6NMK (again) was first closely followed by Art-KC6UQH who was using a novel homemade small DF loop. Art is Chief Engineer for Ocean Satellite Systems in S.D. and showed some interest in a DFing station located on Palomar Mountain. Karl-N6WLX was third although in his enthusiasm at finding the transmitter he gave away its location. Everyone was a winner because they saw that it was possible to find signals with a minimum of equipment: no antenna, pins, and a broad beam (pun intended) for the HT in the stomach method of finding signal directions.

Duane-WB6R won the CW contest at 20wpm and honorable mention goes to Eleanore-N6QJE for copying a little bit of 15wpm.

Thanks to all who helped with the Picnic: Don-N6TRS for bringing the free punch from McDonalds in Fallbrook; Jo-KB6NMK for the McDonald punch from Escondido; Barbara-KA6FPS and Eleanore-N6QJE

for helping with the food; John-N6URW for helping with set-up, masking tape, PARC PICNIC sign, and coffee; Trevor-KB60BT for helping with the punch; and to everyone who helped me load up the truck at the end of the day. Thanks for the good food, fellowship, and a nice time at my seventh and last picnic as your president (W9FQN).

LOST: serving spoon, Paul-KB5MU.

\*\*\*\*\*  
> R E P E A T E R S, etc. <

TECHNICAL: John Kuivinen.....WB6IQS

- - TRUSTEES - -

W6NWG/R: Ron Wilhelmy ...WI6B->

146.730(-) and 449.425(-)

145.05(s)pkt W6NWG-1 or PALMAR

KA6UAI/R: Erik Thompson, 147.130(+)

WA6IPD/R: Art Rideout, 146.175(+)

WD6HFR/R: Ron Berger-NE6T, 224.900(-)

(All CTCSS(PL) tones are 107.2Hz)



## CONTES ELECTRIC


Industrial  
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P.O. Box 1560  
Valley Center  
CA 92082


NU6L



John-WB6IQS was authorized to buy two 450 pass cavities at a cost of \$230 but was able to buy some at a swap meet for \$20 each ..at that price we will buy some more for the autopatch system and future projects: auto-DFing, links, and



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, Interference Resolution Edward Ross



542-1405  
N6GZI

# Antenna

# Specialties

ATV. Thanks John for keeping an eye out for bargains.

- BK -

Last month the repeater site used 588 KWHR and last year 479 KWHR for an increase of about 4%. The last electrical bill was \$63.63.

FARMERS INSURANCE GROUP  
OF COMPANIES  
Agent

TIM HOY -KI6GI-



AUTO FIRE  
LIFE COMMERCIAL

619-466-9770  
8911 La Mesa Blvd., Suite 103  
La Mesa, CA 92041

- BK -

REPEATER RULE #9: Those who complain the most about a repeater's operation are usually those who do not support the repeater by being a club member or help with the repeater site maintenance.



- BK -

(7-7)John-WB6IQS and Joe-NU6L surveyed the repeater bunker and battery shed for electrical wiring that needs to be completed this summer. John made a report to the executive committee who then approved the proposed work.

(7-13)Stan-W9FQN went to the bunker to make measurements and add 2.3gal of distilled water to the 3,300Ahr battery bank (14-350lb batteries) which brought their level just up above the "low" mark. A visit was made to the QTH of Jim-KC6PAS and Diane-KC6PAP where we looked at Jim's HP drawing of the new bunker and Diane served some delicious cold tea which really hit the spot.

(7-26)Joe-NU6L, Stan-W9FQN, and Brandon-(no ticket) went to the site to add double breakers to the distribution box and to locate space for the new autopatch link equipment. Afterwards we all went to visit Mike-KC6KCQ at the Observatory and got a free ride on the dome.

Our repeaters in the PARC bunker on Palomar Mt. at 5,600' cover 2,000 sq.mi. of SD.Co. and 100+ miles out to sea. It is club policy that these repeaters are open repeaters FOR CLUB MEMBERS AND OCCASIONAL TRANSIENT USERS with the AUTO PATCHES being ONLY for club members. Be FRIENDLY to those that you talk to, and INVITE them to support the club with their membership since they are using the repeaters in the PARC bunker. You can check their membership in PARC by asking them if they have seen something in the most recent SCOPE.

A U T O P A T C H E S on 147.130  
KA6UAI/R: Erik Thompson KA6UAI  
ENCINITAS + surrounding towns  
KA6UAI/R: Jerry Houser WB6FMT  
VISTA + the surrounding towns  
KA6UAI/R: Dennis Vernacchia N6KI  
SAN DIEGO, activated Fall of '91?  
KA6UAI/R: Kerry Banke N6IZW

LA MESA, activated Fall of '91?

A U T O P A T C H on 146.175  
WA6IPD/R: Art Rideout WA6IPD  
FALLBROOK + surrounding towns

For specific information on the autopatches please contact W9FQN, WB6FMT, WA6IPD, or KA6UAI.

- BK -

For ALL autopatches say-

"	BK	-	BK	..	BK	"
*XY	(749-0276)	talk			N6YZZ	
(tone)					CLEAR	
N6YZZ					PATCH	
ACCESS PATCH					(tone)#XY	



The " " in example above indicates your "push-to-talk" pushed and "XY" is obtained from a club officer or de your personalized address label on the front of YOUR SCOPE.

The Vista WB6FMT autopatch averages 3.6 calls/da with each call averaging 1min and 16sec. The Encinitas KA6UAI autopatch averages 1.6 calls/da with each call averaging 1min and 24sec. Please try to keep the phone calls short ..possibly less than 60 seconds. Chit-chat is for the ham bands. Not PARC autopatches.

Jerry-WB6FMT's projected time table is as follows:

SEPTEMBER: Testing of NEW Vista patch on 146.(7)30 and 449.(4)25 repeaters using new codes. If you are interested in helping with the test, get the new codes from WB6FMT or W9FQN. If the NEW autopatch is functioning properly, the old Vista patch, \*02, will be moved to the La Mesa area using \*03.

OCTOBER: Testing of NEW MIRA MESA patch on 146.(7)30 and 449.(4)25.

NOVEMBER: Testing of NEW LA MESA patch on 146.(7)30 and 449.(4)25.

JANUARY: All OLD patches closed down and all repeaters using the new autopatch system with new codes and with the old patches being held in

reserve.

You will be furnished with maps and prefix lists as the patches are put into operation.

The autopatches on 147.13 will functioning as they have in the past and they will remain in this mode with the same codes until the new autopatches on 146.73 and 449.425 are functioning properly. Remember, these autopatches are constructed by Jerry from scratch and need to be checked out before being placed in general use by all of our repeaters.

In September we will be testing on 146.73 a new autopatch in Vista which will cover all of the same numbers covered by the 147.13 autopatch. If the test proves successful, we will delete the Vista patch on the 147.13 repeater for several months or so starting in October and substitute La Mesa patch temporarily using \*03. At that time there will be NO outlet into the Vista area on 147.130. You will have to access Vista through the 146.730 or 449.425 repeaters.

If you hear an autopatch in operation on 146.73 or 449.425, please feel free to start using the autopatch on those repeaters but remember that their outlet is only into the same areas covered by the present 147.13 Vista autopatch. You will also have to pick up the NEW CODES (they are different) from Stan-W9FQN or Jerry-WB6FMT although the new codes will start to appear on the October newsletter address label. At that time we will discontinue printing the old codes for 147.13 and start printing the new codes for the new system.

Use the OLD codes on 147.13 until that repeater is tied into the new system sometime in January. Use the new codes published in October for ONLY the 146.73 and 449.425 repeaters. We hope that by January sometime you will be able to access all areas of San Diego from our autopatches.

# REPEATER

# WANT A CHEAPIE?

## BALUNS



For beams 3-30 MHz, 6 Kw PEP 1:1 or 4:1 ratio. Model BA-2000 \$89.95



For rhombics, etc. 6 Kw PEP 2-30 MHz, ratios from 1:1 to 12:1. Model MB \$165.00.



For dipoles 3-30 MHz, 6 Kw PEP 1:1 or 4:1 ratio. Model 2K \$84.95



1.7-30 MHz, 3 Kw PEP, 1:1 or 4:1 ratio. Model 1K \$49.95.



1.7-30 MHz, 350w PEP, ratios from 1:1 to 16:1. Model PB \$29.95.



For high SWR applications-tuners, multiband dipoles. 2 Kw CCS @ 10:1 SWR, 1.7-30 MHz, 1:1 or 4:1 ratio. Model SB \$79.95

Add \$4 shipping/handling in U.S. & Canada. California residents add sales tax.

## SWR & POWER METER



Model M-835 SWR & Power Meter \$199.95 + \$4 to ship U.S./Canada. For 12v DC, Model PB-85 AC adapter \$16. California residents add sales tax.

## PALOMAR ENGINEERS

BOX 155 ESCONDIDO, CA 92033  
Tel 619/747-3343

Some autopatch users are calling home and YOUR answering machine TALKS TOO LONG. If you call home a lot, please consider re-programing your answering machine to say, "Please leave a message after the tone." Answering machines are so popular these days that almost everyone knows: 1) your not home or can't come to the phone, 2) the person they called, and 3) that they should leave their name and number if they want you to call back. We really should not have to listen to 40 seconds of answering machine only

for you to leave a 10 second message that you are "late coming home."

#####  
## - F O R S A I L  
#####



(8-23) Yaesu FNB-10 battery \$10;  
Yaesu FTT-4 TTPad for FT-23/73 \$10;  
Jerry-WB6FMT-758-4388-Vista.

- BK -

(8-22) R.F. Labs GM solid state amp mod V76 (120w out) \$250; Yaesu FT-726R 2m + 6M + 430 & satellite xcvr YM-48 mic, spk console audio filters, SP-102, ex cond \$1,250; E1 Key paddel \$30; B&W sw mod 594 \$20; Hustler Fiberglass mast 54" \$20; mobile bumper mt w/ball-spring \$30; Ten-Tec Mobile ant mod 3101 15M \$20, mod 3100 20m \$20; Hustler resonator RM-75 new cond \$20; Krist-W6KTE-941-3555-Vista.

- BK -

Tubes for sale ..all kinds ..all sizes ..part of PARC tube yard: Larry for PARC-KC6PEN-439-4109-0csd.

### OTHER PARC ITEMS

Tubular tower \$100; Kenwood TM-TS-700(SP) service manual \$2; Ringo Rangers, 2m, & 220; tri-band beams; 2m 3el beam \$20; headphones (assorted); microphones (assorted); Vic 20 computer w/monitor, recorder & programs; Heath Daisy wheel printer; crystal frequency markers; frequency counter; and assorted goodies: PARC-Hillside-Electronics-W9FQN-749-0276-VillyCtr.

- BK -

(8-17) Kenwood MC-85 Desk mic w/equalizer \$75; B&W VS-300A HF 300w ant tuner \$70; Tempo One 100w HF xcvr \$150; 1991 ARRL Handbook (used) \$21; Duane-AA6EE-789-3674-Ramona.

- BK -

(8-14) 12v gel cell batteries (YUASA) guarenteed like new (great for emergency use with HT or public service events) \$5/ea and lots of tubes: Mike-KC6KCQ-742-1573-Palomar Mt.

- BK -

(7-30) Icom 02AT (inspected ICOM), BP8 Bat-pack + wall chg, BP4 pk w/bat charger, DC cord + manual

\$275; Butternut "butterfly" beam w/manual \$50: Paul-KA6PPD-726-1657-Vista.

- BK -

(7-27) mint mod YH55 8ohm Yaesu headphones: Dan-WA6HYB-433-4445-0csd.

- BK -

(7-24) recently acquired old radio manuals w/schematics of all radios 1930-34 ..will share info; 200 series tubes, '32 Official Radio Service Guides Vol#2-4 '31-34: Joe-W6HLB-619-757-1272-0csd.

- BK -

(7-12) Tempo-1 xcvr 80-10m AM-CW-SSB 100w gud cond w/pwr spkr + Yaesu mic, 15m dipole + bauln, 100' RG-213 coax \$250: Mark-AA6TR-944-0145-Carlsbad.

- BK -

(7-4) 700' RG-8 52 ohm coax 30c/ft: Jim-KA6OLZ-434-2722-Carlsbad.

- BK -

(7-4) Complete HF home/mobile (almost antique); Gonset GSB-100; GSB-101 Amp 1.2KW; Hallicrafters SX-111 rcvr; Heathkit LHW-32 20m xcvr w/DC PS repairable & HP-23 PS ALSO POWERS GSB-100; non-mint; discount to seniors or juniors; reasonable priced to good home; extra tubes; be only ham on ur block to own such gear: Jack-KI6JM-598-0420.

- BK -

(6-29-) Commodore 1526 printer, 1541 disc drive, C64, pwr supply, PK64 with HF modem, manuals, programs, like new \$285: Joe-NU6L-749-2699-Valley Center.

- BK -

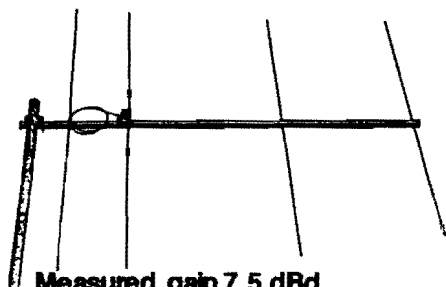
(6-23) Like new Kenwood mobile (used as a base) TM-2570 5-70w 2m FM xcvr with mic, digital coded squelch (DCL), PL's, telephone number memory, call letter transmission & reception, and a cute little Japanese lady who has been taught to speak the frequency in English (MC-42S, MU-1, TU-7, & VS-1) \$450 (new \$900+) (converting to dualbanders): Stan-W9FQN-749-0276-VC. (Seventy watts will help fill in those transmitting mobile "holes" in south county.)



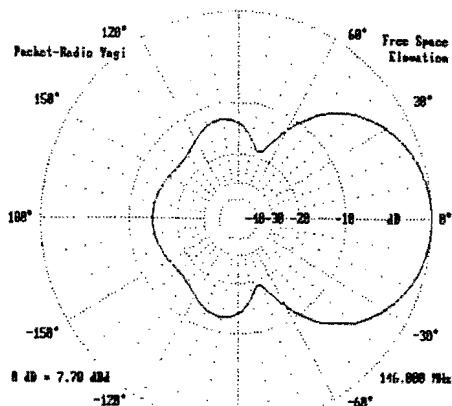
(6-16) ~~Hustler mobile mast 75-40-20-15-10 resonators \$98~~; 2m 3el beam \$15; 35' tubular crankup mast for big beam (needs cable); 3-el hy-gain 3-band thunderbird beam (needs some bolts) and other items too numerous to mention: Stan-W9FQN-749-0276-VC & Duane-WB6R-753-4821-Cardiff for Doug-WA6SVN.

- BK -

### 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 Plotting  
Black Delrin Insulators



Swiech  
Communication  
Systems

Gene Swiech  
(619)748-2286

WB9COY

(6-10) 20->40' crankup-fold-over tubular mast for tribander \$200:

Phil-WF6L-757-7008-Oceanslide.

- BK -

(5-27) 21' vertical antenna 18AVT-WB (wide band) 80-10m 52 ohm \$75; 1w AM BC xmtr can be converted to 160-40m, schematic, case, meters, mic, used as PA system in hotel, \$50: Ray-W6BHF-487-4423-Poway.

- BK -

(5-4) 50' Rohn TOWER 56H (non-tubular): (Past PARC Pres) Ed-N6GZI-297-7758-S.D.

- BK -

(4-22) Corsaire II Ten Tech xcvr 80-10m 100w 4yrs old, \$\$\$; and other HOT items: Felix-N6IE-277-8587-SD.

- BK -

(4-18) HEATHKITS SB-221 HFamp 1KWw 2KWssb w/manual \$225; IG-102 RF SigGen 100KHz-220MHz w/man \$35; EICO 232 VTVM w/man \$35; CHUSHCRAFT 10-3CD 3el 10m beam w/man \$65; ASTATIC D-104 mic w/stand and amp inop. \$25: Eric-XE2/KB6EP0-82-02-83-Tijuana, WANTED-TRADE for R-5 vertical ant.

- BK -

(2-15) Nicholas Andree of HIWAY COMPANY, intersection of Wisconsin and Hill streets in Oceanside is back in business and wants to sell off all of his electronic goodies as soon as possible. No reasonable offer will be refused. Nick indicates he will also donate 10% to PARC from items sold to amateurs. Here is your opportunity to really get some good "deals" and help the club too. It would be good to give Nick a call at his home first, 967-7225, to make sure he will be at the store. Nick has been giving PARC some great deals.

- BK -

\*\*\*\*\* WANTED \*\*\*\*\*  
C-64 morse code program for member's use and for sending code practice on the Wednesday evening code practice net: PARC-W9FQN-749-0276.  
Small tape recorders (3) for autopatch project; need old THOMAS Bros map books to be used to construct direction finding maps of San Diego Co. especially pages 400-409: PARC-W6NWG-W9FQN-749-0276.

- BK -

(8-17) 2m 20w mobile xcvr & 2m hand-

held for upcoming trip: Duane-AA6EE-789-3674-Ramona

- BK -

(8-16) German Shepherd dog or ferocious watch dog with long teeth: Stan-W9FQN-749-0276.

- BK -

(7-26) want 2m beam 8el or larger and 7Amp or greater 12VDC pwr supply: Lee-NOLYW-586-1111-SD.

- BK -

(7-22) Just received license and want older 2m mobile rig: Bill-KC6Y0X-729-6787-Carlsbad

- BK -

(7-4) In 1951 I was the "fist" on 3 code albums made & marketed by Electronic Tech. Inst. in LA. "Loaned" my set ..never got them back. Would like to locate some of these records (copy/buy) for sentimental reasons: Floyd-1545-Raymond-Ave-Glendale-CA-91201-818-242-8961.

- BK -

(6-18) 2m xcvr, HF mobile ant, digital voltmeter, Heath QRP xcvr; monoband beams; HF xcvr for Novice: Duane-AA6EE-789-3674-Ramona.

- BK -

\*\*\*\*\*  
MEMBERSHIP  
\*\*\*\*\*

Membership for 1990-91 topped 449+ members which is a new club record. Our best was last year at 400 members. Thanks to everyone who has been feeding me names of those interested in PARC. We order 25-30 extra SCOPES each month and they all seem to disappear to the extent that I am now mailing out surplus April '90 SCOPES to prospective members with Dennis-N6KI forwarding me the most names.

RENEW: Joe-WB6HMY, Chuck-KI6TG, Mike-KC6RSF, David-W60VP, Terry-K3PXX, Gene-KC6HPY, Janet-KC6GFY, Duane-AA6EE, James-N6LWTE, Leo-N6TUR, Ed-KB6RIW, Steve-KB6GKE, Bob-W6VVU, Gerry-KC6BJM, Don-W6NQZ, Louis-KG5FR, Phil-KC60EI, David-KC6NSA, Herb-WA6SVN, Lou-ND6W, Art-W6INI, Ted-KU1Y, Al-W6FXL, Curtis-N6XXU, R.F.Krist-W6KTE, James-K6HZ,

Louis-N6CKQ, Rob-LWA3HV, Jim-KH6CN, Bor-N6DUR, Billy-WB6TBQ, Herb-N6QWE, Mitch-K6UL, Mike-KC6BHE, Jerry-W6&YLLA, Ed-K6II, Nash-W6HCD, Bob-W6TBA, Pete-WB60BH, Ron-W6TXK.

TWO YEARS -> Larry Larison-W7HKI(2.5yr); William Kane-W6LWM; Dick-KC6QBD; Scotty-KH6TL; Warren-W6EYP; David-AA6KY; Joyce Shettel-KC6TLW.

THREE YEARS -> Lane-KC6AST.

NEW: Jerry Safford, WA6KIN, SD; Dave Urban, N6PBQ, SD; Robert LaRose, N60JLZ, Escondido; Gene Swiech, WB9COY, Poyay; Marvin Teach, N6KVO, Escondido; Cherl Edwards, KC6TPS, SD; Doc O'Connor, KC6RNV, Ramona; Philip Mondala, AH6CW, SD.; Chuck-KC6YOW; Scott Earl-KC6WRI; Jeannie Earl-KC6WRI.

NEW CALL: "PJ" N6UCJ to N7QGH.  
NEW ASSOCIATE: Richard Tullis.

CHANGED: Ron Miely now KC6YLA.

SCOPE: Ver1-WB6EOT.

MOVED: Dora Tuttle, KE7DR, 605S. 4th St, Buckeye, AZ 85326-3241.

INTERESTS: Jerry-WA6KIN a pilot; Gene-WB6COY building beam antennas; Duane-AA6EE DX contests; Jeff-N6WDN HF DX; Francis-KC6UGQ new, lots to learn; Larry-W7HKI fishing, RTTY, DX; William-W6LWM HF; Trevor-KB60BT radio control, flying, sailing, off-roading; Ed-W60YJ microwave, VHF/UHF, DXing, packet; Henry-N6PRC photography; Duane-AA6EE DX contests; Scotty-KH6TL EVAC, CAP; Ed-K6II golf; Cherl-KC6TPS Animal Rescue Reserve - how about a program sometime??; James-KH6CN RTTY; Rick-(waiting) Satellite; Harry-KE6ZR has a great QSL card; Gary-N7AS working on his second 97 years!

#####  
### C A M E O Guys and Gals ###  
### de [REDACTED] - [REDACTED] ###  
#####

"FRANK" CASSEN ..N6AT ..born March 6th, 1904 ..1st licensed 1950 ..other calls W6DZU, W4WBK, WN4SBK ..extra class ..Vice Dir. Delta Div 12yrs ..Charter Life member ARRL ..formerly de Memphis, TN ..visited many countries aboard cruise ships ..likes travel and billiards ..best

DX Indian Ocean, Maritime Mobile ..favorite band 10m ..schedules held VHF nets, Mission Trail Net, and Traffic Nets ..and member of ARRL, QCWA ..would like to see PARC have an "Honorary Membership" classification which denotes service to PARC, ARL, and continuous PARC membership of at least 20 years.

Good Luck Frank ...we expect you to be around for another 87 years!

#####  
### F O R N E W H A M S ###  
(and some old hams)

When you need to identify don't say "N6YZZ for identification." "For identification" is not needed since your call (ie N6YZZ) IS YOUR IDENTIFICATION! On PARC repeaters, identify on your FIRST transmission and then every ten minutes or less after that.

- BK -

Please do not make a call started with a string of touch tones to attract attention. It probably is not the attention you want!

- BK -

Anyone wishing to add to this section of the SCOPE should send their material or ideas to the temporary editor.

#####  
< P A R C V E T E S T I N G >

FCC LICENSE EXAMS in N.County are conducted by the PARC VE Team at the Carlsbad Safety Center in Carlsbad (Camino Real -> Faraday, 14F6) on the 2nd Sat. of the month at 1000 Hrs. Walk-ins are not encouraged. FCC 610 forms are available from Jo-KB6NMK at PARC meetings or from the FCC office in Kearny Mesa, 4542 Ruffner, 467-0549.

REPEAT! AUGUST VE EXAM WILL BE AT CARLSBAD SAFETY CENTER. NO PARC EXAM IN SEPTEMBER BUT WE WILL BE IN CARLSBAD BEGINNING IN OCTOBER.

Other SANDARC-VEC exams: 1st Sat.El Cajon, 3rd Normal Heights, 4th Chula Vista, & last Escondido ARS at Blind Center, 157 E.Villy Parkway.

Applicants must send a SASE

(Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTO-COPIES) and copies of license(s) and certificate(s) of successful completion, if any, to SANDARC-VEC. PO Box 2446, La Mesa, CA 91943 10 days B4 the test date. Bring ORIGINALS of licenses & certificates. Questions: call SANDARC 465-EXAM.

AUGUST 11th

NONE->NOVICE: Ted Storke.

NONE->TECH: Dan Beggs, Thomas Gocke, Susan Griffin, Thelma Schlieder, & Mike Thorpe. NONE->TECH+: Thomasan Shaw

NOVICE->TECH: Ryan-KC6QGW, Elmer-KC6UAV, Larry-KC6MUH, & Larry-KC6VYD.

NOVICE/TECH->GENERAL: David Dumlao-KC6NSA.

TECH->ADVANCED: CHRISTOPHER D. ALLEN-KC6QOJ 13yr old.

GENERAL->ADVANCED: Charles-KC6TYA.

CERTS ONLY: Adnrew Frohreich(2), Ron Kizer-N6SKM(3B), Richard Mirdas-KF6RX(4B), & Jennifer Thieme-(pending)(1A).

VE TEAM: Steve Grant-N6RUV, Sam Burdette-W6YYV, Rob Rice-KS6S, John Kolb-KK6IL, Mark Moskowitz-AA6TR, Jack Hanthorn-KI6JM, & Bob Chantrill-KE6VX.

de A A 6 O M, Rusty Masse  
747-5872, 1249 Nordahl Rd, Esc92026  
THESE HAMS ARE DOING A GREAT JOB WITH THE VE PROGRAM AND DESERVE THE THANKS OF ALL CLUB MEMBERS! If you can help in any way, please contact Rusty.

#####  
### G E N E R A L N E W S ###  
#####

The Palomar Mountain Volunteer Fire Department is holding their annual BARBECUE, Saturday, August 31 at the Gus Weber Picnic Area on the Observatory Grounds: great PIT BARBECUE BEEF and all the fixin's. Adults \$7 and kids(<13) \$3 starting 12pm till 4pm. Over \$4,000 in donated prizes. Tickets \$1 each.

For info call 742-3447.

- BK -

A1-N6GNB has been appointed RACES station manager and Area Coordinator for the Escondido, Fallbrook, Pauma Valley, Poway, Ramona, San Marcos, and Valley Center areas. Please contact A1 if you want to become a part of the RACES organization in his area: 741-1840 Escondido. A1 has been thoughtful enough to send me copies of emergency information which he has been receiving and some of it will be placed in the SCOPE on a space available basis.

The Coastal area consisting of Carlsbad, Del Mar, Encinitas, Solana Beach, Oceanside, and Vista is under the direction of Dee-N6ELP (non-club member). The new Assistant Radio Officer in SD Co. RACES is Ben Green, WD8CZP,

Cities served in North County are:

Carlsbad Fire Ch	J.Thomp.	931-2141
Carlsbad BatChief	J.West	931-2133
Del Mar Fire Ch	L.Jones	755-1522
Del Mar DivF Ch	J.Baker	755-1522
Encinita Fire Ch	R.LaMarsh	944-5007
Encinita AdDep	S.Marvin	944-5027
Escondid Fire Ch	B.Watts	741-4701
Escondid DisCord	N.Hobbs	741-4701
Poway DirSafs	M.Sanchez	748-6600
Poway AdmFBat	G.McPhers.	748-6600
SanMarco Fire Ch	H.Townsen.	744-7200
SanMarco DisCoor	K.Treppa	744-4020

SanDiego Fire Ch J.Delotch 533-4301  
SanDiego Bat. Ch G.Stepano 533-4350

A1 has a complete listing of all Emergency Services in the county.

- BK -

The FCC announced in July that the US and Mexico have concluded a reciprocal amateur radio licensing agreement but we are still awaiting the FCC announced procedures and rules for obtaining reciprocal permits.

- BK -

Shannon-KC6NRB operates a telephone BBS (Named: Yet Another BBS) in Escondido with a phone number of 738-5132 and it has a sub-directory for amateur radio. If you live in north county, you might give

him a call and check the BBS out. Other amateur radio devoted BBS's are Radio Sport, 279-3921, and Sabaline, 692-1961. You might check these out also since Dennis-N6KI has updated PARC information on these BBS's. If there are any other BBS's that we should know about, please let Dennis know about them.

- BK -

Novices on 220 are limited to 222.1-223.91 MHz but the ARRL is pushing for full access: 222-225 MHz.

#####  
##### N E T S #####

The young people of San Diego County are operating a net on 147.13 on a "trial basis" each Saturday at 7:30pm. They are also operating a net on 28.39 (+or- QRM) SSB, Thursday evenings at 8pm for young people in S.D. Co. and throughout the USA when the band is open. David-KC6VMR is net control of both nets although he has appointed Chris-KC6QOJ and Nicole-KC6YZP as alternates for the two meter net. We wish them luck with these new nets.

Their first net consisted of David-KC6VMR, Scott-KC6WRK, Chris-KC6QOJ, and Tony-KC6QHP. They were surprised with some "3rd party" check-ins of Lyle, son of Sherry-KC6RQW and Beth(12), daughter of Mike-KC6KQC.

Chris, whose Novice license was lost "in the mill" for many months is really running through the Ham licensing exams: Novice, Tech, General, and now Advanced. Not bad for a young ham who just recently received his Novice license. Mark-AA6TR was the one who got Chris's Novice license back "on track."

PARC is still open to having a SPANISH net on one of the repeaters. The FCC has indicated that in the near future they will be publishing rules on the new reciprocal licensing agreement with Mexico. When that happens we will probably see more XE's using our repeaters while traveling north and we will

have more opportunity to use theirs while traveling south into Mexico. The 146.730 repeater is open on Friday and Saturdays at 2100Hrs (9pm) and the 147.130 is open every evening at 2100Hrs.

- BK -

Net report for July de Joe-N6RV0. There were 11.3 average check-ins with 5.6 messages per session. The high was 24 messages in one session. Participation: 7 net control stations, 3 alternates, 3 SCNV stations, and 24 members on the roll call list. Thanks for a job well done.

- BK -

#### 146.73 WEEKLY EVENTS

1 M->S 2000 S.D.Co Traffic Net  
(except 1st Wed club meeting)  
MON 2100 Microwave Net: N6IZW  
TUE 2100 Pkt. Voice Net: KB5MU  
WED 2100 Code: W9FQN, N6NZX  
THU 2100 Ham Help Net: KC6PEN  
SUN 0830 PARC EmergServ: KB6NMK  
SUN 1000 Sailboaters: AA6TR  
SUN 2100 ARES Planning: WD0DLW

#### 147.13 WEEKLY EVENTS

SAT 2030 YoungPeople Net:KC6VMR  
M-S 2230 King Henry FacetiousGp

#### OTHER NETS

MON 1930 RACES Net on 147.195  
THU 2000 Young People'sNt 28.35

#### DISCLAIMERS

Meetings at LINCOLN MIDDLE SCHOOL are NOT a function of the Vista Unified School Dist. & are NOT sanctioned by the school Dist. Board of Trustees. See!

Unless specifically stated to be club policy, opinions and statements set forth herein do not necessarily represent club policy even though the president is the temporary Editor. Nor do they necessarily represent the opinions of the authors on other occasions or under different circumstances. The Editor further disclaims any knowledge of anything - real or imaginary. Verily.

You can copy anything out of the

SCOPE you want as long as you give credit to THE PALOMAR AMATEUR RADIO CLUB, Inc., and author(s).

#####  
 \*\*\* CORRECTIONS \*\*\*  
 #####

#### AUGUST SCOPE:

**EXCUSE ME!**

Field Day pg 9: 6,327 were the QSO pts in '91 and the total number of CW-Phone QSO's were 4,422.

SK pg 3: due to an error in the adjustment of my bi-focals late at night while looking at the alphabetical club member listing, N6YMD, Joe Lepine's name got typed in instead of WA6MYC, Al Levon. Joe was at the August meeting and assured us all that "the rumors of his passing were greatly exaggerated." Received a nice card from Mercedes Levon thanking the club for the friendship shown to her husband by PARC members.

#####  
 < ARRL SECTION MANAGER's REPORT >

de Art Smith, W6INI

#### DEPT of FORESTRY's RED FLAG PATROL

How did the Amateur Radio Emergency Service (ARES) become involved with the California Department of Forestry's Red Flag Patrol?

At a SANDRA meeting in June, 1976, a program was presented by the San Diego Ranger Unit Fire Prevention Chief, Doug Allen. This was CDF's introduction to Amateur Radio and vice versa. Chief Allen pointed out the need for volunteers with reliable radio communications to patrol critical areas during Red Flag Alerts.

The Red Flag Patrol is a fire prevention program which is implemented when weather conditions present an EXTREME FIRE HAZARD in the wildland areas - usually occurring during Santa Anas when hot weather, low humidity, high northeasterly winds, and low fuel moisture exist. Patrol objectives are to: (1) identify and report situations that may cause fires,

(2) serve as a deterrent to arsonists, (3) report fires in their incipient stages, and (4) after reporting, extinguish very small fires. The occurrence of fires, whether major or minor, do not necessarily signify the need for Red Flag Patrols. It is determined by severe weather conditions. Patrol routes are in the Ramona, Lakeside, Harbison Cyn, Alpine, Fallbrook, Escondido and Valley Center areas.

A week after the June meeting, the first call came to assist CDF with special Red Flag Patrols in the Santee/Lakeside area after a series of arson fires had plagued the area for several days. For four days, with temperatures over 100 degrees, operators covered the area by ground and air. Fires continued intermittently throughout the period, but on the fourth day, Bob Frye, W6JWU, spotted the arsonist. CDF fire prevention officers immediately surrounded the area and arrested the culprit.

Since then eight to ten patrol routes have been covered regularly during each fire season.

If you like action, this program is for you. Volunteers must be over 18 years of age and will be registered in the Volunteers in Prevention (VIP) program. When assigned by a CDF official to Red Flag Patrol, they become volunteer employees of the State of California with workers' compensation protection. Patrol vehicles must have two persons - driver and observer. Only one needs to be a licensed Amateur Radio operator (Tech or higher) with 2-meter or 220MHz 25w mobile in vehicle (no HTs!). The second person may be unlicensed or hold a Novice Class license. Here's a chance to get your spouse or a friend involved with you. Classroom and/or on-the-job training is provided.

In the past, the headquarters stations (at Monte Vista) required the assigned operators to bring their own equipment. Recently the Amateur Radio Club of El Cajon

provided a 2-meter radio and SANDRA a 220 radio which could remain at the headquarters facilitating operation.

The coming fire season is expected to be severe and it takes a good many operators to sustain operations over several days. There's room for you! Contact me at 273-1120 or on 146.265(-) at 1900 Sundays to sign up.

#####  
 \*\*\* TECHNICAL / HAM HELP \*\*\*  
 #####

The ARRL suggests that you connect all 12vdc equipment using MOLEX series 1545 connectors so that VHF/UHF equipment can be changed easily. This connector is rated at 25v @ 8A using #18 wire or greater. Install a fuse as near to the battery as possible. RADIO SHACK stores carry the connector, #274-222 at 99 cents/pair.

#### R F I

Eliminate RFI and ground loops with copper flashing as a ground buss. Also copper braiding from RG-213 or RG-8X works well. Each item gets its own SHORT ground strap. Use brute force A.C. line filters. Wrap eight turns of A.C. line cord around Amidon #FT-240-1240 ferrite core or equivalent. Use A.C. surge protectors with metal-oxide-varistors and .22 microfarad capacitor(s). Use a low pass filter before the amplifier and after the amplifier. PL259 connectors must be soldered. Use balun to reduce coax radiation. Do not overdrive your amplifier and use only the power needed to maintain the contact. (de B111-KB6MCU)

- BK -

Please send items for this column to the temporary editor, W9FQN, and they will be used on a space available basis. Don't forget the Thursday evening HAM HELP net run by Larry-KC6PEN and crew if you have questions on amateur radio. Someone checking in on the net should be able to help you with your problems

or they will try to find someone to help you.

### CONSULTING EXPERTS

(found on 146.730)

KB6MCU: ElCajon, Ham Radio Classes  
 W6TXK: MiraMesa, Ham Radio Classes  
 W6FGE: PtLoma Theory/Code Classes  
 KB6NMK: FCC 610 Forms at meetings  
 W6INI: ARES; ARRL; Fire Patrols  
 W00DLW: ARES Encinitas->San Marcos  
 KC6CZO: ARES Escondido, N&E. of I-15  
 WB6FMT: Autopatches and 450 Equip.  
 Flying instructor, FM Deviation  
 KB6NMK: Direction Finding info.  
 KC6PEN: Ham Help NetThur.Eve; Tubes  
 FM Deviation  
 WB6IQS: Heathkit; Motorola; Rpters  
 KB6MCU: Interference; Filters; ATV  
 FCC, Antennas (HF/VHF/UHF), towers  
 W9FQN: Mexican License; Nicads

N6IZW: Microwave; Test Equipment  
 KI6RF: Mobile noise filtering  
 N6RVO: National Traffic System  
 W60LQ: Ping Pong; Badges; HP Plot  
 KB5MU: Pkt; Satellite; Computers  
 voic packet net TueEve  
 N6UWU: Radio Controlled Airplanes  
 N6KI: Swapmeets; Used Equip\$ Est  
 2m J-pole Ant  
 ND6W: Test Equipment, Programming  
 AA60M: VE Testing: Tests/Helpers  
 WA6HQM: 10 meter 10-10 Club Infor  
 WQ6V: Cable TV problems; Coins  
 WD6FWE: C-64 computers-> Commodore  
 AA6TR: Sailing / Boating Antennas  
 N6TEP: U.S. Coast Guard Auxiliary  
 Check ad sections for professional help on radio repair: N6GZI (antennas), KC6PEN (equipment repair), and HR0. If you would like

to have your call added to the list, contact W9FQN with your speciality area.

#####  
 > P O T P O U R R I <

HAM STAMP PINS: Replica of ham postage stamp, \$5. Contact an officer at the next meeting.

- BK -

OFFICIAL CLUB BADGES: see John Tentor, W60LQ, 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.

- BK -

- 73 W 9 F Q N -

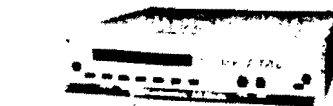
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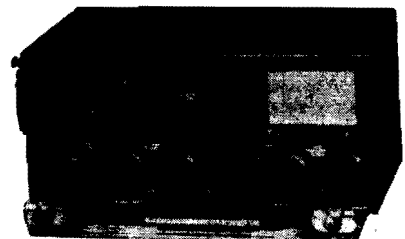
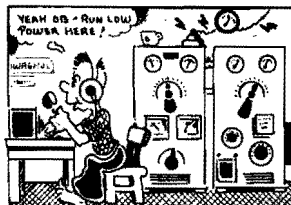
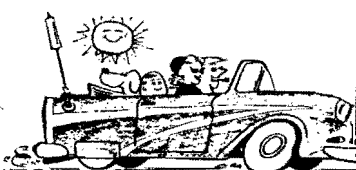


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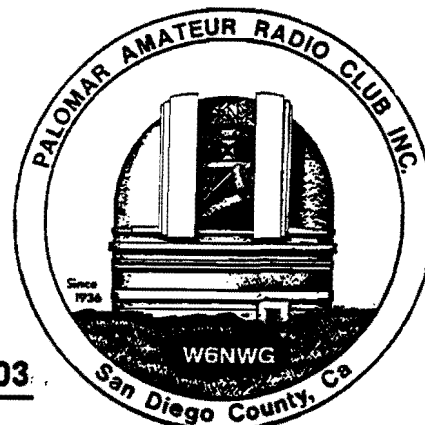


# Scope

W6NWG

## Palomar Amateur Radio Club Inc.

### POST OFFICE BOX 1603, VISTA, CALIFORNIA 92085-1603



W8NWG 146.730-, Patch

KA8UAI 147.130+, PL 107.2, Patch

WA8IPD 146.175+, PL 107.2, Patch



W8NWG 449.425-, PL 107.2, Patch



145.05 Pkt, W6NWG-1, \*PALMAR\*

Club Simplex: 448.0, 146.535

220 Club SD WD8HFR 224.800-

VOL XXVI, NO.10

OCTOBER

1991

55 YEARS

October 2nd meeting (1st Wed) is at Lincoln Middle School Cafeteria in Vista. 1-5 or 1-15 to Rd.78, Escondido Ave (Sunset) ramp, north on Esc. Ave, after 2nd light between Eucalyptus and E. Vista Way. Talk in .730.

#### H A M C A L E N D A R

Sep 30 Mon - RACES Briefing on FD  
Oct 2 Wed - PARC Club Meeting  
Oct 10 Thu - PARC Executive Mtg.  
Oct 12 Sat - PARC VE Test, CARLSBAD  
Oct 19-20 - ARRL Sim. Emerg. Test  
Oct 20 Sat - RACES, Field Drill  
Oct 31 Thu - Halloween  
Nov 6 Wed - PARC Club Meeting  
Nominations for new officers  
(Send calendar items to W9FQN)

#### C O N T E N T S

Executive Meeting, del President 2  
Ads: WB9COY, PalEng, W9WV, N6GZI 3  
Thanks . . . . . 4  
Repeater, Ads: N6RAO, KI6GI, NU6L 5  
Repeater, work parties . . . . 6  
Autopatch . . . . . 7  
FOR SALE and wanted . . . . . 8  
Membership, Auction . . . . . 9  
Young Hams, VE testing . . . 10  
Potpourri, HRO ad . . . . . 11

vehicles to talk via AMTOR all over the world on minimum antennas and 45 watts. He will be leaving for a new duty station in Albuquerque, NM, and we wish him well at his new duty station.

Attending were 84 members and 14 guests present for a total of 98.

Art-KB6YHZ is back among us and again supervised the coffee and goodies. He was assisted by Larry-KC6PEN and his charming wife, Kieko. THE GOODIE TABLE NEEDS GOODIES SO WHY NOT BRING SOMETHING FOR NEXT MEETING. Thanks. If you don't do it, who will?

#### N E X T C L U B M E E T I N G

Our next club meeting will be October 2nd at 7:30pm in the Lincoln Middle School Cafeteria on Escondido Avenue in Vista and will feature our annual club auction under the direction of Dennis-N6KI. These auctions are an excellent time for you to get rid of (sell) those little used items and to pick up something that you just cannot live without ...so bring in your goodies and be prepared to spend a little green stuff or write a check or two. We hope to have again Steve Kerrin-

WA6CDU from Escondido as the auctioneer. See the section on AUCTION for the auction rules.

There will be no show and tell because the AUCTION is our SHOW AND TELL. There will also be an abbreviated meeting with mainly announcements being made.

#### W A N T t o B E a H A M ? (or Dial-a-Ham)

If you or a friend are interested in becoming an amateur radio operator and in joining the Club, please contact one of the following ELMERS for more information or use the application form on the back of this issue:

VALLEY CENTER . Stan Rohrer . W9FQN  
(President, Editor(temp) 749-0276)  
VISTA . . Jack Hanthorn . . KI6JM  
(Vice-President, 598-0420)  
BONSALL . . Nash Williams . . W6HCD  
(Secretary, 728-3574)  
CARLSBAD . Benton Caldwell . KK6LX  
(Treasurer, 729-5161)  
ESCONDIDO . . Jo Ashley . . KB6NMK  
(Membership Chairwoman, 741-2560)  
CARDIFF: Duane Stedman: WB6R: 753-4821  
CARLSBAD: Eleanore Call: N6QJE: 729-0850  
Chula Vista: Steve Grant: N6RUV: 422-4415  
DEL MAR: Gerry Sanford: KC6BJM: 755-5244  
ENCINITAS: Dave Copley: WA6HQM: 753-2605

#### L A S T C L U B M E E T I N G

The September 4th program consisted of Chip-KC600E talking about and demonstrating AMTOR which he used for sending thousands of messages during the Persian Gulf War. Chip showed us the equipment which he has used in his home and

OCT'91

FALLBROOK:Artrideout:WA6IPD:728-6834  
La MESA: Roger Jaffe :N6UWU:697-6025  
LAKESIDE:Mac McBride:WB6GXR:561-2211  
LEUCADIA: Bud Lincoln:KG6VX:436-9983  
LinVistaPaulWilliamsonKB5MU:571-8585  
MIRA MESA: Ron Earl :W6TXK:566-1959  
OCEANSIDE:LarryGugle:KC6PEN:439-4109  
OCEANSIDE: Lloyd Hunt:W6TFB:757-9374  
PAUMA-PALA:Mark Ross:KC6CZ0:742-1539  
PointLom:MickMcDaniel:W6FGE:222-3912  
POWAY:MarkSchlesinger:N6NNI:748-8391  
RAMONA: Vernon Leming:AA6UU:789-3070  
RanchoPen:John Tentor:W6OLQ:672-3891  
RanchoS.Fe:RonWilhelmy:WI6B:756-3133  
S.D.:Dennis Vernacchia:N6KI:271-6079  
SanMARCOS:FloydHarvey:W6JSP:741-8391  
SanMARCOS:RustyMassie:AA6OM:747-5872  
SolanaBe:LouBroadbent:N6CKQ:755-9179  
VISTA: Jerry Houser :WB6FMT:758-4388

\*\*\*\*\*  
E X E C U T I V E   M E E T I N G

The Executive Committee, consisting of the officers of the Club and the Chairmen of its committees, meets at 7:30 p.m. on 2nd Thursday after the club meeting (8 days later) at the home of various of its members. You are welcome to attend these meetings. Contact any executive member for additional information on executive committee meetings.

8-15-91 DISCUSSED: \$\$; SCOPE net costs are below \$3; programs; repeater rules; possible post office box change 1603 -> 73; picnic; K6HAV; nomination committee; survey form N6WLX; picnic; membership at 400 already; 450 packet project held up till receive info from KB5MU; possible PL required on 147.130 continuously; battery shed; work parties; interference problems and DFing; answering machines and use.

APPROVED: next exec mtg at KI6JM's QTH; changes to SDCTN preamble; Oct. auction; new activity ticket rules; PL for 449.425 operation; PL for autopatch operation (5 yes, 1 abstention); \$250 for 450 antennas.

IN ATTENDANCE: (officers) Stan-

W9FQN, Jack-KI6JM, Nash-W6HCD, and Benton-KK6LX; with Jo-KB6NMK (Membership) and John-WB6IQS (Technical). The July meeting was at Jack-KI6JM's QTH and we all enjoyed the drink and cake. The October 10th meeting will be at Jack-KI6JM's QTH.

\*\*\*\*\*  
## del P R E S I D E N T E #3 ##  
### (after #3 comes #2!) ###  
### (and editor?) ###  
\*\*\*\*\*

Letters sent to me should be addressed to 30311 Circle R Lane, Valley Center, CA 92082-9423 preventing a 15 day delay when sent through the club's address in Vista.

- BK -

The following anonymous letter was recently received by PARC:

-----  
Sirs;  
RE: Donation to the general fund!  
Enclosed is a small token of appreciation for your VEC committee and it's chairman for their consideration, patience and help to get me through 1(A) to complete my TECH+ license, and for letting me join PARC. Yours truly, KC6---.  
P.S. Now on to General?

-----  
The letter contained a green \$50 bill. THANKS to whoever wrote the letter and sent the money. Rusty Massie-AA6OM and his "Gang of 10" do an excellent job with the VE testing. While the request was to place the money in the General Fund we will probably invest a "like amount" into a project to promote amateur radio.

- BK -

Benton-KK6LX, our club treasurer sent me the following report about club funds at the end of August this year:

Equipment fund	\$ 2,593
Prepaid Dues	\$ 1,363
General fund	\$ 3,653
9/11 balance	\$ 7,609

Beginning balances in years past:

12/1/88	\$5,043
---------	---------

8/1/89	\$6,527
8/1/90	\$5,734
8/1/91	\$8,002



Of course, the \$8,000 is a little deceptive since quite a bit of it is in the Equipment Fund (future projects), and Prepaid Dues. So we are really only working with the \$3,653 out of which must come printing costs (SCOPE), supplies, activities, phone lines, electricity, etc.

This means we have very little to start in on a bunker at the repeater site, if we decided to build it, without resorting to other means. If at all possible, we want to stay away from increasing dues or asking for donations. Possibly we could borrow money thru THE FRIENDS of PARC as we did for the buying of the repeater property on Palomar Mountain and amortize the payments over five years.

- BK -

The constitution states that the executive committee can determine the points members can receive for participation in club activities. Dennis-N6KI presented a plan for points to the club which was similar to one submitted a year or two ago. The attempt is to recognize members for their participation in club activities. The executive committee decided to try a new system for a one year trial period of awarding points and tickets for the drawing held at the club picnic. The following points will be awarded for the following participation by club members with a maximum ticket count of 20 and with the publishing of the names of club members with the highest participation points.

Renewal(1), Meetings(1-12), Picnic(1), Field Day(1-3), Sweepstakes(1), 10m SSB(1), Novice Roundup(1), Repeater work day(1-?), Committee Head(1-5), Del Mar Fair(1), VE Work Session(1-12), DFing(1-?), Net Controls(1/mo @ 4 sessions/month).

- BK -

The nomination committee is looking for replacements for me

(W9FQN) and Jack-KI6JM, our vice-president and program chairman. So far, everyone we have talked to (4) has said "NO" to running for an office. Both Jack and myself have indicated that we are willing to continue on with some of the things

we have been doing in the past so these two positions should not be as difficult as they might seem at first glance.

My being active in the club before being president has probably made the position of president seem

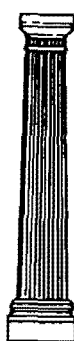
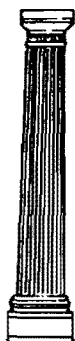
more involved than it really should be since I did not drop any of the positions that I had before becoming president and along the way I picked up several more that I was interested in earlier.



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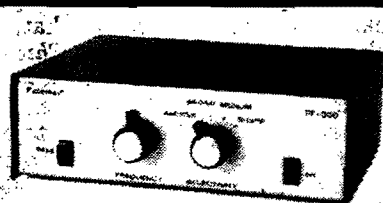
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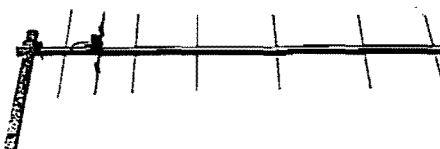


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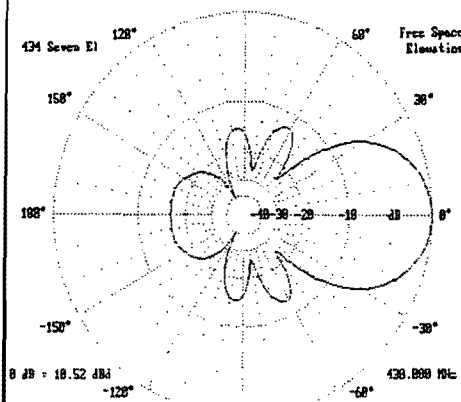
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WB9COY

Please come forward if you are able and willing to contribute something to the club. Usually the position of President lasts only a year (rarely two and seven years is

unheard of in any amateur radio club until now) and the vice-president's position usually one year. My decision to be available for such a long time was based on the

following: 1) the nominating committees ask me to run, 2) no one else indicated a desire to run nor was there any opposition to my running previous to this past year.



and 3) I have always been interested in the club and its projects and attended Executive Committee meetings even though I was not an officer ...so being president was not that big of a deal for me in terms of time spent.

As club president you would need to conduct the general Wednesday night meeting and the Thursday evening executive committee meetings each month.

A club the size of ours has many "sleepers" in it. I know. I was one of them until I volunteered to do the engineering calculations on the 70' PARC tower (18 tons of cement and 540 pound 20' sections) and supervise its installation. I had attended the club meetings for years (early 70's) and NOT ONE person knew my name!

Another "sleeper" is Jerry Houser-WB6FMT who never comes to meetings (works Wednesday evenings). A year ago no one knew his name or call and now almost everyone is aware of Jerry and his call because of the tremendous job he has done with the autopatch system. Also, Rusty Masse, AA6OM, has now become a household name since his involvement in the PARC SANDARC VE program and he also cannot attend club meetings.

There are many "well known" members and "sleepers" who would be able to fill the positions being vacated by Jack and myself ...but where are you when we need you?

- BK -

The horse and buggy below is from my childhood days in Wakarusa, Indiana, which was in an Amish farming community. My father started teaching in a one room school at the age of 19 and taught school for 45 years ...he was born in 1898 and that accounts for "GER '98" in the 80' 18 ton tower base at the PARC site on Palomar Mountain.

73, Stan W 9 F Q N

#### RE M I N D E R

MOVING? Remember to send us your new address BEFORE you move. It costs the club \$.35 to get back the

SCOPE that was sent to you plus wasted postage and printing costs of \$.58!

#### NEWSLETTER HELPERS

- September 1991 SCOPE -

Members, Ads, Labels, JoAshley . KB6NMK Membership Data, Bill Whipple N6COU Billing Ad, etc, John Tentor . W6OLQ Folding/Staples, Lloyd Hunt .. W6TFB Folding/Staples, Bill Whipple N6COU also roster and label printing

Sorting . . . . Eleanore Call N6QJE Printing/Forms, Stan Rohrer . W9FQN

Without these people life would certainly be difficult. THANKS!!

If you live in the Vista or the Oceanside area we really could use some extra help for an hour or so.

#####  
 ### R E C O G N I T I O N of ###  
 ##### (thanks) #####  
 #####

Karl-N6WLX for putting up a 10m long wire for Ellen-N6UUW who promptly has started working all over the Pacific ...and the USA ...Ellen, how about starting on working all states (WAS).

- BK -

Thanks to WORLD RADIO for the use of information, articles, and "cut outs" which their magazine provides for the SCOPE from time to time. The magazine is in News Paper format and their last monthly issue contained 75 pages. They cover all aspects of amateur radio in a non-technical way.

12 issues \$14 24 issues \$27  
 36 issues \$39 lifetime \$140  
 WORLD RADIO, 201 Lathrop Way  
 Ste. D, Sacramento, CA 95815

- BK

Benton-KK6LX, club treasurer, for a special update on the club's finances as we enter a new club year when we are considering a building program.

- BK -

Little Joe-WB6HMY for sending the SCOPE to Dora Tuttle-KE6DR. Dora was one of the net controls for the evening North County Traffic Net for many years and now lives in Buckeye,

AZ. Little Joe used to be our NCTN manager for years and years too.

- BK -

Ron Miley-KC6YLA for consenting to work on the Carlsbad Safety Center RACES/ARES: personnel, antennas and equipment. Ron also has taken on working with a school club station and would welcome any antennas, general coverage receivers (given or on loan), books, and/or code equipment that could be used in the club program. Contact Ron at 753-9343 in Carlsbad. He would also welcome help from any retired persons in the area who are available during the school day.

- BK -

Steve Morris-KB6GKE for the donation of the second phone answering system to be used in a club project and to Jim Cooper-NE60 for bringing the unit to us at the last meeting. Steve also donated a 1296 beam and an HP-41c Calculator.

- BK -

Bill Whipple-N6COU for the great information sheet on IBM compatible computers. Bill likes USER SATISFIED COMPUTERS at 2216 El Camino Real Ste. 122, Oceanside, and thinks that Walter Wang gives good prices and service. I think Bill is trying to wean me away from TRS-80 Mod IV's although he just sold me another Mod IV system with printer in August. If you stop in to talk to Walter, be sure to tell him that Bill Whipple sent you. Bill operates the club's GIANT computer which keeps all membership information and prints out the SCOPE labels each month ..for which we are VERY VERY thankful.

- BK -

Jo Ashley-KB6NMK and Bill-N6COU for the great looking roster in the September SCOPE.

- BK -

Chris Allen-KC6QOJ for a nice letter on updating me about the Young People's net on 147.130 being held Saturday evenings at 7:30pm and the 28.39MHz SSB net Thursdays at 2000hrs. We appreciate everything that Chris and David-KC6VMR are



doing for the Young People's nets that they are conducting.

- BK -

Jerry Houser-WB6FMT has invested a great deal of effort in the club's autopatch system this past summer resulting in the construction of the repeater site equipment and the first base unit in Vista. If the Vista test proves ok in September, he will begin on the remaining two units (80hrs of labor) to be stationed in the Mira Mesa and La Mesa calling districts. This should give us coverage from Mexico to Fallbrook and should cover most emergency situations where we need phone contacts. Jerry is director of the Palomar College Aeronautical Sciences program so he is really busy during the regular school year.

- BK -

Orlando Vernacchia-N6QVW for all of the specialized machine and welding work that he has been doing

for the club on the 450 cavities we have been modifying. Orlando was responsible for the welding of one of the club's towers and for much of the machine work on the Field Day antenna mounts. He does great work.

\*\*\*\*\*  
 REPEATERS, etc. \*\*\*\*\*

TECHNICAL: John Kuivinen.....WB6IQS  
 - - TRUSTEES - -

W6NWG/R: Ron Wilhelmy...WI6B->  
 146.730(-) and 449.425(-)  
 145.05(s)pkt W6NWG-1 or PALMAR  
 KA6UAI/R: Erik Thompson, 147.130(+)  
 WA6IPD/R: Art Rideout, 146.175(+)  
 WD6HFR/R: Ron Berger-NE6T, 224.900(-)  
 (All CTCSS(PL) tones are 107.2Hz)

\*\*\*\*\*  
 =CONTROL OPS W6NWG-1 PACKET: WI6B  
 KB5MU WB6IQS N6NZX KB6NZA W9FQN  
 =CONTROL OPS W6NWG/R 146.73/449.425:

WI6B WB6IQS W9FQN N6NZX  
 KB6NZA KC6PEN WB6FMT  
 =CONTROL OPS KA6UAI/R 147.13:  
 KA6UAI WI6B W9FQN N6TJT  
 WB6FMT KC6PEN  
 =CONTROL OPS WA6IPD/R 146.175:  
 WA6IPD WF6L or contact W9FQN  
 \*\*\*\*\*

Users of the KA6UAI 147.13 repeater should be aware of the following: 1)the repeater will come down off the mountain sometime in October (13 or 20th?) for several weeks while Erik makes modifications, 2)during that time (2-3 weeks) there will be a substitute repeater in place with NO AUTOPATCH or 10 METER LINK (use the Vista 146.730 autopatch) and 3)because of continued interference on 147.130, the updated 147.13 repeater will be placed permanently on PL (CTCSS 107.2Hz) except for certain nets and special events.

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TIM HOY -KI6GI-



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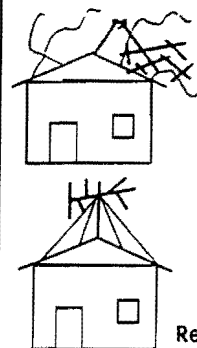
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542-1405  
**Antenna** N6GZI  
**Specialties**

- BK -

Our 449.425 repeater sometimes runs into radar interference. Does anyone know where it is coming from and whether it is vertically or horizontally polarized? Contact Stan-W9FQN or Jerry-WB6FMT.

- BK -

The new autopatches have the

DO NOT TRY TO TAKE THE 147.130 REPEATER OFF OF PL SINCE THE MODIFIED REPEATER WILL NOT ACCEPT THE OLD CODES. See the autopatch section for more info on PL tones. If you need a sked with someone without PL, better use 146.730.

A great circuit for PL can be found on page 13 of 73 magazine for

August 1989. The circuit uses only one LM1458N chip and a handful of parts. PL units can also be bought at HRO. Better get something soon because you will probably find 147.130 PL'ed before the end of October to eliminate much of the "grunge" being heard on the repeater.

option of "muting" the tones being sent which is ok for your sending of telephone numbers since in the new system these do not need to be broadcast over our repeaters, but it should be noted that if we do remove the touch tones (TT) from our repeaters, that you will not be able to use TT encoded squelch on our repeaters ..bummer. If you are using TT encoded squelch or plan to in the future, please contact W9FQN as soon as possible. We do have a solution to the problem.

- BK -

When buying a new 2m rig you might want to consider buying one of the new dual-banders with 2m and 450 (449.425). This is especially great for family use since our 450 repeater is not used as much as the 2m repeaters and the conversations are more private. The coverage on 450 is about the same as 2m except that it is more "line-of-sight" resulting in more flutter or drop-outs when you get behind a hill. Experience indicates that 2m fills in the valleys better than 450. Sometimes 450 will work better in city buildings and behind them than 2m because of the shorter wavelength and reflections off of the sides of buildings.

The biggest problem seen by Barbara and I so far is that we sometimes don't know which band we are receiving a call on. We use space separated speakers and still get confused. Usually, if I am calling on 450, I say, "this is W9FQN 450" which seems to solve the problem. I guess the repeaters should have distinctive "ding-dongs" at the end of each transmission to tell the repeaters apart. Also 446MHz is great for private simplex between cars or the house. Remember, there will be an autopatch on the 450 machine within the month of October.

- BK -

PARC does not encourage our members talking to other stations through our repeaters who ARE NOT in San Diego County or Mexico. If you

have a sked with someone, thats ok, but to just talk to someone out of the county on our repeaters is discouraged. If they are not in SD Co., then they are probably bringing up several other repeaters on our assigned frequency trashing the other repeaters with "one ways." We selected our site on Palomar Mountain so that we ONLY covered SD Co. and we would like to keep it that way. It is our understanding that home stations in Palos Verdes and Cucamonga can hit our repeaters if they are up high, use beams, and/or run high power but this only happens just a few times per year ...which is really great for us and just the way we like it. If you want to talk to LA, use another repeater!

- BK -

Be careful of talking to USA stations with XE (Mexican) prefexes that ARE IN the USA since they probably only have NOVICE licenses and are operating in the US illegally. USA stations in the USA use ONLY USA calls.

- BK -

\*\*\*\*\* WORK PARTIES \*\*\*\*\*  
\*\*\*\*\* (you too can have fun) \*\*\*\*\*

(9-15)Workparty went to the repeater site and accomplished the following:

PROPERTY LINES-> Jim-KC6PAS and Art-KB6YHZ ran one of our property lines and discovered that our one tower anchor is JUST INSIDE our property. All four corners were located and marked. They then staked out the proposed new repeater bunker near the tower and discovered that it would be too close to the property line so a new location was staked out on the North side of the tower. Jim is using an HP computer for drawing the new bunker plans and he and Art are bringing the proposed plans up to date. The plans will be brought before the membership and the project will be voted on as soon as we get enough information on its size and cost. They also picked up enough information for a plot plan

of the property and buildings.

ANTENNAS-> Jack-KI6JM (and helpers) moved the 10m link vertical antenna to the back of the bunker and fastened it to the block wall. Stan-W9FQN fixed a 450 antenna on the 80' tower and removed a 450 collinear from the tower. The collinear was then placed at the top of a 20' mast along with a 450 beam and fastened to steel supports next to the bunker.

Stan, Anita-KB6YHY (Art's wife), and Jack's wife, Audrey, brought the 14 emergency battery liquid levels from their low mark where they had been kept for a year up to their high mark. They took 15gal of water! This might seem like a lot of water but when the batteries were moved to the site they were purposely allowed to go down to their low level marks for shipping. Low level to high level takes one gal of distilled water. During the past year they used only a few gallons of water. The repaired cracked battery was brought up to level with sulfuric acid of approximately the same specific gravity of a charged cell. Jack, Audrey, Anita, and Art, after completing their work, adjourned to MOTHER'S KITCHEN on Palomar Mountain for their afternoon meal.

John-WB6IQS and Jerry-WB6FMT installed the new autopatch equipment and started the process of connecting the units up to the 146.730 and 449.425 repeaters. They spent all morning and afternoon making up the proper connectors and locating convenient points on the transmitters and receivers to pick off and inject the audio into the autopatch system. Jerry's wife, Jan, and children, Jenny, and Jeff spent the day on Palomar Mountain visiting parks, having a picnic, and exploring the mountain and Lake Henshaw while Jerry worked.

It was a beautiful day on Palomar Mountain ...wish you were there!

- BK -

PARC is looking for several more tower climbers. Some of our past



climbers have either moved out of the district, gotten too heavy, too old, or have too many other responsibilities at present. We have had several volunteers lately but they have no climbing equipment which you must have if you are going to climb a PARC tower. If you have any climbing equipment available for loan or donation, please contact W9FQN. Our present climbers are as follows:

- #1 Chuck Dowling KI6TG . . active
- #2 Stan Rohrer . W9FQN . active?
- #3 Mike . . . KC6KCQ . no equip
- #4 Ed Ross . . N6GZI . available
- #5 ?? cannot find name of volunteer who gave his name at a club mtg.
- #6 this could be your name and call (Please contact me if you can help)

This is one sure way of being top man on one of PARC's projects! Some of the projects we have are:

- 1. Visual inspection of tower
- 2. Check out 146.730 antenna/coax
- 3. Test out 3 heliax dead lines
- 4. Attach 2 new 450 antennas
- 5. Rebolt last 80' @ 70' level
- 6. Weather proof all connections
- 7. Connect up emergency antennas
- 8. Install 2m/450 antenna
- 9. Replace a 450 antenna
- 10. Run new coax lines

- BK -

(9-13)Stan-W9FQN visited the repeater site for several hours to take care of a repeater problem.

- BK -

(9-7)John-WB6IQS, Dennis-N6KI, Jerry-WB6FMT, and Stan-W9FQN, at the request of Dennis, met with two design engineers from DBR Engineering, Dave Robison and Larry-KC6VYD (new club member) to review the design of the new autopatch system recently constructed. It was determined that the present design can be easily modified in the future to include several desired features suggested by Dennis-N6KI which should make the new system being tested in October more easily used when the modifications are made.

Our repeaters in the PARC bunker on Palomar Mt. at 5,600' cover 2,000

sq.mi. of SD.Co. and 100+ miles out to sea. It is club policy that these repeaters are open repeaters FOR CLUB MEMBERS AND OCCASIONAL TRANSIENT USERS with the AUTO PATCHES being ONLY for club members. Be FRIENDLY to those that you talk to, and INVITE them to support the club with their membership since they are using the repeaters in the PARC bunker. You can check their membership in PARC by asking them if they have seen something in the most recent SCOPE.

-----  
A U T O P A T C H on --> 147.130

KA6UAI/R: Erik Thompson----KA6UAI  
ENCINITAS + surrounding towns  
Up code "#01"

Down code is "#01"

KA6UAI/R: Jerry Houser-----WB6FMT  
VISTA + the surrounding towns  
Up code "#02"

Down code is "#02"

(No changes in codes or areas)

-----  
A U T O P A T C H on 449.(4)25 & 146.(7)30

W6NWG/R: Jerry Houser-----WB6FMT  
(VIS)ta (upr SDC0) October  
Up code "Rxy", see Nov. label

Down code is "#"

(MIR)a MESA (ctr SDC0) Fall of '91  
(LAM)esa (lwr SDC0) Fall of '91

-----  
A U T O P A T C H on 146.175

WA6IPD/R: Art Rideout----WA6IPD  
FALLbrook + surrounding towns  
Up code "#04"

Down code is "#"

-----  
For specific information on the new autopatches please contact W9FQN, or WB6FMT (Vista). For the old patches on 147.13 contact W9FQN, WB6FMT (Vista), KA6UAI (Encinitas), or WA6IPD (Fallbrook).

All autopatches on 147.13 will be closed down for 2-3 weeks in October. Use the 146.73-449.425 Vista autopatch.

- BK -

For 146.73, 449.425, patches say-

"BK BK BK BK"  
Rxy (749-0276) talk N6YZZ

(tone)  
N6YZZ  
ACCESS PATCH



CLEAR  
PATCH  
(tone)#

The "..." in example above indicates your "push-to-talk" pushed. The "xy" is obtained from a club officer or de your personalized address label on the front of YOUR November SCOPE "R" is from the repeater you are on. 146.(7)30 ((7)) or 449.425 ((4)) YOU NEED A 107.2 PL FOR AUTOPATCHES!

The old autopatch codes for the 147.13 machine are \*02/#02 for the Vista area and \*01/#01 for the Encinitas area. These patches on 147.13 will be shut down for 2-3 weeks in October.

Do not discuss autopatch codes even to members over the air. Use your home phone for such discussions.

**New**

Jerry-WB6FMT's NEW projected time table is as follows for the new patches on 146.730 and 449.245:

SEPTEMBER 15th: New autopatch equipment moved to the bunker and installed. To be placed in operation before the end of September with 146.730 first, and 449.425 to follow. You will need a 107.2PL to use the autopatches.

OCTOBER 13th or 20th: The VISTA 147.130 patch to be closed down and replaced with the VISTA 146.(7)30 and 449.(4)25 autopatches serving the upper 1/3rd of SD Co. (Escondido, SM, Vista, Oceanside, Fallbrook, Carlsbad, & Encinitas) with new codes of "Rxy" as shown on your November label or ask for the codes at the October meeting. Remember that the "R" is the first digit after the decimal point of the repeater you are on. For 146.(7)30 it is "7" and for 449.(4)25 it is a "4". Its really very logical. You send a three digit code. The first number is the first digit after the decimal point of the repeater that you are on and the remaining two designate which of the three autopatches you want to use ...but



only the Vista patch is available beginning in October with the other two codes for the rest of the county not being available until later. While the old autopatches on 147.13 are being used, their codes will remain \*01 for Encinitas and \*02 for Vista.

The 147.130 autopatch in Encinitas will be off the air for several weeks in October while Erik-KA6UAI is making modifications to that repeater. When it returns, it will be PL'ed with 107.2Hz.

NOVEMBER 16th: La Mesa or Mira Mesa patch operating. These patches will serve the lower 2/3rds of SD Co.

DECEMBER 21st: Remaining patch operational - La Mesa or Mira Mesa.

We will try to keep you advised of our progress as we get further into the project. There is bound to be some confusion at first because of the new autopatch codes on each repeater, 147.13 patches off the air for 2-3 weeks, and the new patches coming "on line" progressing down through the the county one by one over the next few months. We hope everything will be completed by the end of January 1992.

- BK -

The WB6FMT Vista patch had 136 calls on it last month but we think about 40-50 of them were Jerry testing the new autopatch system.

#####  
## - F O R S A I L ##  
#####



PARC will be taking a load of donated surplus items to the Santee Swap Meet, Saturday, November 2nd, and we will need club members to help with the selling of the items. By having 4-5 amateurs helping there will always be time for you to walk around and look at the rest of the swap meet items. Please contact W9FQN for information on how to help.

**Incredible  
Prices!**

(9-3)Heathkit HW101 xcvr w/pwr, Versa Deluxe Tuner, key, & headphones. Great rig for beginner \$200: John-670-4078-Spring Valley.

- BK -

(8-28)Bamboo poles from small to 4"dia: Larry-WQ6V-726-0353-Vista.

- BK -

(8-23)Yaesu FNB-10 battery \$10; Yaesu FTT-4 TTPad for FT-23/73 \$10: Jerry-WB6FMT-758-4388-Vista.

- BK -

(8-22)R.F.Labs 6M solid state amp mod V76 (120w out) \$250; Yaesu FT-726R 2m + 6M + 430 & satellite xcvr YM-48 mic, spk console audio filters, SP-102, ex cond \$1,250; E1 Key paddle \$30; B&W sw mod 594 \$20; Hustler Fiberglass mast 54" \$20; mobile bumper mt w/ball-spring \$30; Ten-Tec Mobile ant mod 3101 15M \$20, mod 3100 20m \$20; Hustler resonator RM-75 new cond \$20: Krist-W6KTE-941-3555-Vista.

- BK -

Tubes for sale ..all kinds ..all sizes ..part of PARC tube yard: Larry for PARC-KC6PEN-439-4109-0csd.

#### OTHER PARC ITEMS

M83 Ham Interface software with manual; PK-64 Packet; Tubular tower \$100; brand new Standard Mic MP5 46B 5pin (10ea) \$5; Kenwood TM-TS-700(SP) service manual \$2; Ringo Rangers, 2m, & 220; more tubes- we don't even know what we have but I did see several 1629's!; tri-band beams; 2m 3el beam \$15; headphones (assorted); microphones (assorted); Vic 20 computer w/monitor, recorder & programs; Heath Daisy wheel printer (needs adjustment); crystal frequency markers; frequency counter; and assorted goodies: PARC-Hillside-Electronics-W9FQN-749-0276-VillyCtr.

- BK -

(8-17)Kenwood MC-85 Desk mic w/equalizer \$75; B&W VS-300A HF 300w ant tuner \$70; Tempo One 100w HF xcvr \$150; 1991 ARRL Handbook (used) \$21: Duane-AA6EE-789-3674-Ramona.

- BK -

(8-14)12v gel cell batteries (YUASA) guarenteed like new (great for emergency use with HT or public

service events) \$5/ea and lots of tubes (Mike, are u in competition with PARC tubes?): Mike-KC6KCQ-742-1573-Palomar Mt.

- BK -

(7-30)Icom 02AT (inspected ICOM), BP8 Bat-pack + wall chg, BP4 pk w/bat charger, DC cord + manual \$275; Butternut "butterfly" beam w/manual \$50: Paul-KA6PPD-726-1657-Vista.

- BK -

(7-27)mint mod YH55 8ohm Yaesu headphones: Dan-WA6HYB-433-4445-0csd.

- BK -

(7-24)recently acquired old radio manuals w/schematics of all radios 1930-34 ..will share info; 200 series tubes, '32 Official Radio Service Guides Vol#2-4 '31-34: Joe-W6HLB-619-757-1272-0csd.

- BK -

(7-12)Tempo-1 xcvr 80-10m AM-CW-SSB 100w gud cond w/pwr spkr + Yaesu mic, 15m dipole + bauln, 100' RG-213 coax \$250: Mark-AA6TR-944-0145-Carlsbad.

- BK -

(7-4)700' RG-8 52 ohm coax 30c/ft: Jim-KA60LZ-434-2722-Carlsbad.

- BK -

(7-4)Complete HF home/mobile (almost antique); Gonset GSB-100; GSB-101 Amp 1.2KW; Hallicrafters SX-111 rcvr; Heathkit LHW-32 20m xcvr w/DC PS repairable & HP-23 PS ALSO POWERS GSB-100; non-mint; discount to seniors or juniors; reasonable priced to good home; extra tubes; be only ham on ur block to own such gear: Jack-KI6JM-598-0420.

- BK -

(6-29-)Commodore 1526 printer, 1541 disc drive, C64, pwr supply, PK64 with HF modem, manuals, programs, like new \$285: Joe-NU6L-749-2699-Valley Center.

- BK -

(6-23)\$400 Like new Kenwood mobile (used as a base) TM-2570 5-70w 2m FM xcvr with mic, digital coded squelch (DCL), PL's, telephone number memory, call letter transmission & reception, and a cute little Japaneese lady who has been taught





to speak the frequency in English (MC-42S, MU-1, TU-7, & VS-1) (new \$900+) (converting to dualbanders): Stan-W9FQN-749-0276-VC. (Seventy watts will help fill in those transmitting mobile "holes" in South County.)

- BK -

(6-16)2m 3el beam \$15; 35' tubular crankup mast for big beam (needs cable); 3-el hy-gain 3-band thunderbird beam (needs some bolts) and other items too numerous to mention: Stan-W9FQN-749-0276-VC & Duane-WB6R-753-4821-Cardiff for Doug-WA6SVN.

- BK -

(6-10)20->40' crankup-fold-over tubular mast for tribander \$200: Phil-WF6L-757-7008-Oceanslide.

- BK -

(5-27)21' vertical antenna 18AVT-WB (wide band) 80-10m 52 ohm \$75; 1w AM BC xmtr can be converted to 160-40m, schematic, case, meters, mic, used as PA system in hotel, \$50: Ray-W6BHF-487-4423-Poway.

- BK -

(5-4)50' Rohn TOWER 56H (non-tubular): (Past PARC Pres) Ed-N6GZI-297-7758-S.D.

- BK -

(4-22)Corsaire II Ten Tech xcvr 80-10m 100w 4yrs old, \$\$\$; and other HOT items: Felix-N6IE-277-8587-SD.

- BK -

(4-18)HEATHKITS SB-221 HFamp 1KWcw 2KWssb w/manual \$225; IG-102 RF SigGen 100KHz-220MHz w/man \$35; EICO 232 VTVM w/man \$35; CHUSHCRAFT 10-3CD 3el 10m beam w/man \$65; ASTATIC D-104 mic w/stand and amp inop. \$25: Eric-XE2/KB6EPO-82-02-83-Tijuana, WANTED-TRADE for R-5 vertical ant.

- BK -

(2-15)Nicholas Andree of HIWAY COMPANY, intersection of Wisconsin and Hill streets in Oceanside is back in business and wants to sell off all of his electronic goodies as soon as possible. No reasonable offer will be refused. Nick indicates he will also donate 10% to PARC from items sold to amateurs. Here is your opportunity to really get some good "deals" and help the

club too. It would be good to give Nick a call at his home first, 967-7225, to make sure he will be at the store. Nick has been giving PARC some great deals.

- BK -

PALOMAR ARC: free IBM Code disk for code practice sessions; guy rope for antennas and masts, 260-770-1790 pounds breaking strength (4-8-12c/ft, and 3/32-3/16-5/16" inches); HAM POSTAGE STAMP REPLICA PINS (great for gifts), \$5/ea; Stan-W9FQN-749-0276-V.C.

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

The club is looking for several small wall transformers; 1)9->12V DC @ 500ma and 2)15VAC @ 300ma; C-64 morse code program for member's use and for sending code practice on the Wednesday evening code practice net; small tape recorders (3) for autopatch project; need old THOMAS Bros map books to be used to construct direction finding maps of San Diego Co. especially pages 400-409: PARC-W6NWG-W9FQN-749-0276.

- BK -

(9-17)Need mic for Kenwood xcvr, 4pin, MC-30, or MC-35; frequency counter: Allen-N7AMR-434-5656-Carlsbad.

- BK -

(8-17)2m 20w mobile xcvr & 2m handheld for upcoming trip: Duane-AA6EE-789-3674-Ramona

- BK -

(8-16)German Sheperd dog or ferocious watch dog with long teeth: Stan-W9FQN-749-0276.

- BK -

(7-26)want 2m beam 8el or larger and 7Amp or greater 12VDC pwr supply: Lee-NOLYW-586-1111-SD.

- BK -

(7-4)In 1951 I was the "fist" on 3 code albums made & marketed by Electronic Tech. Inst. in LA. "Loaned" my set ..never got them back. Would like to locate some of these records (copy/buy) for sentimental reasons: Floyd-1545-Raymond-Ave-Glendale-CA-91201-818-242-8961.

- BK -

(6-18)2m xcvr, HF mobile ant, digital voltmeter, Heath QRP xcvr; monoband beams; HF xcvr for Novice: Duane-AA6EE-789-3674-Ramona.

\*\*\*\*\*

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

\*\*\*\*\*

RENEW: John-KK6MS, Phil-WF6L, Vern-NOCPS, Mary-NOEVV, Ken-KA5Q, Leonard-KB6MWH, Bill-N6OPP, Jim-NE60, Del-WV6Z, Marsh-W6SAX, Marni-KB6PCF (former net manager for PARC), Chuck-N5HTC, Charlette-N%NLV, Ed-N6UWG, Don-WD6FWE, Peter-N6YMC.

A SPECIAL WELCOME TO NEW MEMBERS:

Leo Theisen-KC6RQJ SD; Kristelle Lusby-KC6WYS Vista; Karelle Lusby-KC6WMI Vista; Martine Lusby-KC6YEU Vista (all related in some way to Peter Lusby-N6YMC; Kirk Mundt-KD6ADS Elfin Forest (about 15); Duane Naugle-KC6QHU SD; Jason Kahlert-KD6ADI SD; Tom Munnecke-KC6ZRW Encinitas; Bob Heygood-N6SWZ Escondido; Jeffrey Herbster-KJ6Q0 Bonsall; Vincent Riggio-W7LHC Escondido.

NEW ASSOCIATE: Parviz Kamiab Carlsbad.

SCOPE: Tomoaki-AB6AR (Japan); Dora-KE7DR (tnx WB6HMY).

INTERESTS: Leonard-KB6MWH test equipment, repair & calibrate; Ken-KA5Q DX, packet, CW, mobile HF&2m; Kirk-KD6ADJ radio controlled planes on 6m and 2m satellites.

A nice note from Bill-AB4PG ..around SD this past year ..now leaving for Florida and still wants to join ..interested in RACES-ARES & Civil Air Patrol ..will be in SD at LEAST TWICE A YEAR!

New members joining late in the month will be included in next month's SCOPE.

\*\*\*\*\*

\*\*\*\*\* A U C T I O N \*\*\*\*\*

\*\*\*\*\*

The October meeting will feature 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 \$\$ or your checkbook to take advantage of the great buys that traditionally accompany these auctions. See state of the art items (10-30yr ago?) and watch sellers cry as they part with their beloved treasures and buyers eyes light up as they successfully buy something they can't do without. Dennis-N6KI, hancha (el jefe), again promised us a few laughs and dancing girls ...promises, promises.

- The auction rules will be essentially the same as last year:
- 1) 6:30 pm Sellers sign-in, tag equipment.
  - 2) 7:00 pm Buyers sign-in and bidders identification. Inspect equipment for auction.
  - 3) 7:30 pm Shortened club meeting and then Auction.
  - 4) PARC receives 10% of the sale price and there is no fee for buyers or sellers. Donations to PARC are accepted.
  - 5) All monies will be paid to the PARC and the club will then pay the sellers by check.
  - 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 attend the Auction so invite your friends to join in the fun.

#####  
#### Y O U N G H A M S ####  
#####

The YOUNG PEOPLE's Net has been averaging about 5.7 check-ins each week and all of the nets have been very enjoyable. They have been accepting check-ins from young people with licenses and "third party" check-ins of young people without licenses. This might be a way of getting that "reluctant"

young person in your house to get started in amateur radio. It is our understanding that the unlicensed young person can push the BIG SWITCH to transmit but that a licensed operator must be right next to them controlling the entire operation. This operation is similar to what is done with autopatches and Field Day operation ..but a licensed control operator must be present!

Chris-KC6Q0J, who is now an Advanced class operator and only 12 years old, is sharing the net control duties with David-KC6VMR on the 147.130 KA6UAI repeater at 7:30PM. They switch off every few weeks in running the net. Chris and David also operate a 10m net on 28.39 plus or minus the QRM which covers local stations and throughout the USA.

The following are some of the members of the YOUNG PEOPLE's net on Saturday evening at 7:30pm on 147.130, the KA6UAI/R:

- |                |                       |
|----------------|-----------------------|
| KD6ADJ Kirk    | 14 ELken Forest       |
| KC6QGR Cindy   | 16 Rancho Penasquitos |
| KC6QGV Robert  | 14 Rancho Penasquitos |
| KC6QGW Ryan    | 13 Rancho Penasquitos |
| KC6QHP Tony    | 13 San Diego          |
| KC6Q0J Chris   | 12 Encinitas 942-3061 |
| KC6VMR David   | 13 Del Mar 259-1464   |
| KC6VYI Allis   | 9 San Diego           |
| KC6WRI Jeanine | 9 San Diego           |
| KC6WRK Scott   | 7 San Diego           |
| KC6YZP Nicole  | 10 Vista              |
- 3rd Party members
- |                  |               |
|------------------|---------------|
| KC6KQC Beth      | 12 Palomar Mt |
| KC6RQW Lyle      | 10 Oceanside  |
| KC6YLA Megan     | 10 Carlsbad   |
| KC6YZP Karelle   | 13 Vista      |
| KC6YZP Kristelle | 11 Vista      |
| KC6YZP Marie     | 8 Vista       |

Years ago your temporary editor announced to both of his girls (N6QDB & N6YZZ) that they needed TWO licenses to drive any car of ours. You can imagine how anxious they were to get their licenses. They ASKED ME for the amateur radio study material! Having an FCC Technician

license also looks good on college and/or work applications. My FCC Novice license (WN9FQN) saved me from a "fate worse than death" in the Air Force: it was the difference between my being sent to officer's supply school or communications school.

There has been some talk about having a few special programs for the Young People on certain meeting nights: special classes, trips to outstanding DX ham stations, and special demonstrations. If you can help with or supervise any special programs, please contact Stan-W9FQN. We would need some club members to help with planning and also the transportation.

#####  
< P A R C V E T E S T I N G >

FCC LICENSE EXAMS in N.County are conducted by the PARC VE Team at the Carlsbad Safety Center in Carlsbad (Camino Real -> Faraday, 14F6) on the 2nd Sat. of the month at 1000 Hrs. Walk-ins are not encouraged. FCC 610 forms are available from Jo-KB6NMK at PARC meetings or from the FCC office in Kearny Mesa, 4542 Ruffner, 467-0549.

REPEAT! VE EXAMS FROM NOW ON WILL BE AT CARLSBAD SAFETY CENTER!

Other SANDARC-VEC exams: 1st Sat.El Cajon, 3rd Normal Heights, 4th Chula Vista, & last Escondido ARS at Blind Center, 157 E.Vlly Parkway.

Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTO-COPIES) and copies of license(s) and certificate(s) of successful completion, if any, to SANDARC-VEC. PO Box 2446, La Mesa, CA 91943 10 days B4 the test date. Bring ORIGINALS of licenses & certificates. Questions: call SANDARC 465-EXAM.

Recent communications with the ARRL and articles in QST have suggested that amateurs not

communicate with the FCC about rulings or "what if" questions. These requests should be first run thru the ARRL rather than force the FCC to rule on something that it did not intend to rule on in the first place.

#### FCC-issued call signs -

	Extra	Advan	Tech/Gen	Novice
Feb	AB6AP	KK6VV	"gone"	KC6RJT
Apr	AB6BS	KK6YI	"gone"	KC6TCJ
Jun	AB6DC	KM6BX	"gone"	KC6VVY
Jul	AB6DO	KM6CX	"gone"	KC6WRW
Aug	AB6EB	KM6FT	"gone"	KC6ZCM

The American Radio Relay League (ARRL) submitted a 21 page brief before the FCC concerning PR Docket No. 91-36 in the matter of inquiry into the need to preempt state and local laws concerning amateur operator use of transceivers capable of reception beyond the amateur service frequency allocations (scanners and amateur radio

scanners).

John-WB6IQS, our technical chairman, also submitted a brief which was referenced in the ARRL brief. Members wanting to see the ARRL brief should contact me at the next meeting before 7:30pm to have a look at it.

#### DISCLAIMERS

Meetings at LINCOLN MIDDLE SCHOOL are NOT a function of the Vista Unified School Dist. & are NOT sanctioned by the school Dist. Board of Trustees. See!

Unless specifically stated to be club policy, opinions and statements set forth herein do not necessarily represent club policy even though the president is the temporary Editor. Nor do they necessarily represent the opinions of the authors on other occasions or under different circumstances. The Editor further disclaims any knowledge of

anything - real or imaginary. Verily.

You can copy anything out of the SCOPE you want as long as you give credit to THE PALOMAR AMATEUR RADIO CLUB, Inc., and author(s).

#####  
> P O T P O U R R I <

HAM STAMP PINS: Replica of ham postage stamp, \$5. Contact an officer at the next meeting.

- BK -

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.

- 73 W 9 F Q N -



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# Palomar Amateur Radio Club Enlistment / Re-enlistment Application

AMATEUR CALL	CLASS OF LICENCE N T T+ G A E	
ARRL MEMBER Yes No	DATE FIRST LICENCED	
LAST NAME	OLD CALLS	
FIRST NAME	DATE OF BIRTH	
STREET ADDRESS	RACES Yes No	
	ARES Yes No	
CITY & STATE	RED FLAG Yes No	
ZIP CODE	BLOOD DONOR?	BOOD TYPE
HOME PHONE #	WORK OR OTHER PHONE #	
THOS. BROS. MAP LOCATION	INTERESTS	
LICENCE EXPIRES	PARC FAMILY MEMBERS	

Mail this form with your check to PARC, P.O. Box 1603, Vista, Ca 92085-1603 or hand to Jo, KB6NMK at club meetings. Prefer checks to cash, it's safer and you have a record.

Dues (including Scope) are \$12 a year plus \$9 for each additional family member at the same address.

Dues are prorated for NEW members: Aug, Sept, Oct, \$12; Nov \$9, Dec \$8, Jan \$7, Feb \$6, Mar \$5, April \$4, May \$3, June \$2, July \$1. Family members 75% of full price. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Call, name and complete address are required. Telephone number is requested but may be unlisted in roster if preferred. Other information may be omitted if you feel uncomfortable providing it to the club.

Comments: \_\_\_\_\_

#####  
# SCOPE, USPS 076530, published monthly by #  
# the PALOMAR AMATEUR RADIO CLUB, INC #  
# Post Office Box, 1603, Vista, CA 92085- #  
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# ----- #  
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# P. O. Box 1603, Vista, CA. 92085-1603 #  
#####



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Membership Information  
UR LAST ISSUE IF (PRC9109)

SEE INSIDE FOR DETAILS:

**AUCTION**

(PRC9109) License  
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X X  
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X X  
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**SCOPE**  
**For You . . .**

**Welcoming Newcomers**

NEXT MEETING WEDNESDAY October 2nd

No.1 5A Field Day!

# Scope

W6NWX

**Palomar Amateur Radio Club Inc.**

**POST OFFICE BOX 1603, VISTA, CALIFORNIA 92085-1603**



NOV '91

#1

W6NWX 146.730-, .. Autopatch(PL), P.Mt. ! W6NWX Patch Centers in: !  
W6NWX 449.425-, PL, Autopatch Jan, P.Mt. ! ..Upper 3rd SDCO ! 145.05 Pkt, W6NWX-1, "PALMAR" P.Mt.  
KA6UAI 147.130+, PL, Autopatch Dec, P.Mt. ! ..Middle 3rd SDCO, Nov.17th ! Club Simplex: 446.0, 146.535 SDCO.  
WA6IPD 146.175+, PL, Autopatch(Fallbrook) ! ..Lower 3rd SDCO, Nov.17th ! 220 Club SD WD6HFR 224.900- P.Mt.

VOL XXVI, NO. 11

NOVEMBER

1991

55 YEARS

November 6th meeting(1st Wed) is at Lincoln Middle School Cafeteria in Vista. I-5 or I-15 to Rd.78, Escondido Ave(Sunset) ramp, north on Esc.Ave, after 2nd light between Eucalyptus and E.Vista Way. Talk in .730.

## Yea Dennis

### H A M C A L E N D A R

Nov 1 Fri - 6:15 Field Day BASH  
Nov 2/3 - CW Sweepstakes  
Nov 6 Wed - PARC Club Meeting  
Nominations for new officers  
Nov 9 Sat -PARC VE Test, CARLSBAD  
Nov 11 Mon - Veteran's Day  
Nov 14 Thu - PARC Executive Mtg.  
Nov 16/17 - Phone Sweepstakes  
Nov 28 Thu - Thanksgiving Day  
Dec 4 Wed - PARC Club Meeting  
New officers elected  
Dec 31 Tue - W9FQN/KI6JM last day  
Jan 1 Wed - Club Meeting, Vista  
PARC new officers take charge  
(Send calendar items to W9FQN)

### C O N T E N T S

Executive Meeting, del President 2  
Elmers, President's message . . 2  
Ads:WB9C0Y, PalEng, W9WV, N6GZI/TNX3  
Repeaters . . . . . 4  
Ads: N6RA0, KI6GI, NU6L . . . . 5  
Autopatch information . . . . . 6  
FOR SALE . . . . . 7  
Membership . . . . . 8  
VE Testing, Club News . . . 9-10  
Technical Help, HRO Ad . . . .11

sisted of the club's annual auction again run by Dennis-N6KI and his gang of seven: Steve Kerrin-WA6CDU (auctioneer), Dave-KC6VEC (runner), Rich-KF6RX (runner), Carl-N6WLX (runner), Ron-WI6B (accounting), Benton-KK6LX (checks), and Dennis-N6KI (supervisor). They all did a great service for the club and with Steve Kerrin's knowledgeable running commentary on the equipment being sold, everyone had an entertaining evening (...even if I was in the dog house for what I bought-Ed).

The club made out well selling every item it brought in to the auction ...and several that it didn't. It is always amazing how one can misjudge how much an item will finally be sold for.

Dennis-N6KI announced that THE PALOMAR AMATEUR RADIO CLUB was NO.1 in the 5A Field Day emergency competition this past summer

## Yea Dennis

Scotty-KH6TL spoke for a few minutes on EVAC (Emergency Volunteer Air Corps) needing a small house trailer for their operations. Also, Scotty is interested in hosting a Novice-Tech class sometime in

January with a possible testing date in February with PARC in Carlsbad. If you know of anyone interested in getting a license in the Vista area, contact Scotty and he will see if a class can be arranged (727-8836) with help from PARC.

We had 101 attending this year's auction.

Art-KB6YHZ, Larry-KC6PEN and Larry's charming wife, Kieko, again supervised the drink and goodie table. THE GOODIE TABLE NEEDS GOODIES SO WHY NOT BRING SOMETHING FOR NEXT MEETING. Thanks. If you don't do it, who will?

## NEXT CLUB MEETING

Our next club meeting will be November 6th at 7:30pm in the Lincoln Middle School Cafeteria on Escondido Avenue in Vista and will feature Larry-KC6PEN and crew with a lecture demonstration clinic on FM service equipment and its application to HF/VHF/UHF.

Be sure to bring your HT's and any other HF/VHF/UHF transceivers (FM, CW, SSB) that you would like to have checked: tones, spectrum

## LAST CLUB MEETING

The October 2nd program con-



power, etc.



Larry-KC6PEN, Art-KC6UQH, and Mike-KC6KCQ will set up their equipment at 6:30pm and they will be able to check your mobile equipment while it is still in the parking lot until 7:30pm. They will then present the program for the evening on the use of their test equipment and possibly check a few rigs after the meeting ..if there is time.

There will be no SHOW and TELL at the meeting.

### WANT to BE a HAM? (or Dial-a-Ham)

If you or a friend are interested in becoming an amateur radio operator and in joining the Club, please contact one of the following ELMERS for more information or use the application form on the back of this issue:

- - -

VALLEY CENTER . Stan Rohrer . W9FQN  
(President, Editor 749-0276)  
VISTA . . Jack Hanthorn . . KI6JM  
(Vice-President, 598-0420)  
BONSALL . . Nash Williams . . W6HCD  
(Secretary, 728-3574)  
CARLSBAD . Benton Caldwell . KK6LX  
(Treasurer, 729-5161)  
ESCONDIDO . . Jo Ashley . . KB6NMK  
(Membership Chairwoman, 741-2560)  
CARDIFF: Duane Stedman:WB6R:753-4821  
CARLSBAD:EleanoreCall:N6QJE:729-0850  
ChulaVista:SteveGrant:N6RUV:422-4415  
DEL MAR:GerrySanford:KC6BJM:755-5244  
ENCINITAS:DaveCopley:WA6HQM:753-2605  
FALLBROOK:Artrideout:WA6IPD:728-6834  
La MESA: Roger Jaffe :N6UUV:697-6025  
LAKESIDE:Mac McBride:WB6GXR:561-2211  
LEUCADIA: Bud Lincoln:KG6VX:436-9983  
LinVistaPaulWilliamsonKB5MU:571-8585  
MIRA MESA: Ron Earl :W6TXK:566-1959  
OCEANSIDE:LarryGugle:KC6PEN:439-4109  
OCEANSIDE: Lloyd Hunt:W6TFB:757-9374  
PAUMA-PALA:Mark Ross:KC6CZO:742-1539  
PointLom:MickMcDaniel:W6FGE:222-3912  
POWAY:MarkSchlesinger:N6NNI:748-8391  
RAMONA: Vernon Leming:AA6UU:789-3070  
RanchoPen:John Tentor:W6OLQ:672-3891  
RanchoS.Fe:RonWilhelmy:WI6B:756-3133

S.D.:Dennis Vernacchia:N6KI:271-6079  
SanMARCOS:FloydHarvey:W6JSP:741-8391  
SanMARCOS:RustyMassie:AA6OM:747-5872  
SolanaBe:LouBroadbent:N6CKQ:755-9179  
VISTA: Jerry Houser :WB6FMT:758-4388

### ##### EXECUTIVE MEETING

10-10-91 DISCUSSED: November program, auction netted the club \$163, membership at 410, PL's, blind center has some members interested in amateur radio, Erik's description of a new link, nominations for president and vice-president, possibility of moving a control link, addition of other antennas to the tower, climbing belts, #1 FD, new application folder, and need for a battery and generator committee.

APPROVED: next exec mtg at WB6IQS, \$245 for 9913 coax, additional two phone lines and closing down of one, <\$275 for duplexer, and sending the SCOPE to WA6CDU.

IN ATTENDANCE: (officers) Stan-W9FQN, Jack-KI6JM; with Jo-KB6NMK (Membership) and John-WB6IQS (Technical). Visitors were Tom-KC6ZVI, Larry-KC6PEN and wife Kieko, Erik-KA6AUI, Bill-N6COU, and Art-KC6UQH. The October meeting was at Jack-KI6JM's QTH and we all enjoyed the drink and cookies. The November 13th meeting will be at Jack-KI6JM's QTH.

#####  
## del PRESIDENTE #2 ##  
#### (after #2 comes #1!) ####  
##### - - (and editor) - - #####  
#####

Letters sent to me should be addressed to 30311 Circle R Lane, Valley Center, CA 92082-9423 preventing a 15 day delay when sent through the club's address in Vista.

The nomination committee will make its report to the club at the November meeting. They will submit

the names of Harry Hodges for president and Art McBride-KC6UQH for vice-president. Harry has been a long time DXer, president of the Escondido ARC, and presented programs on DXing to local clubs including ours. Art is an electronics engineer and while a relatively new ham he has been active in the Thursday evening HAM HELP net, technical discussions on the repeaters, and is interested in DFing. Nash Williams-W6HCD and Benton-KK6LX have consented to throw their hats into the ring again for next year. The nomination committee consisted of Dennis-N6KI, Ron-WI6B, Stan-W9FQN, and Jack-KI6JM.

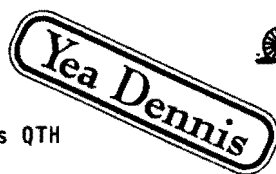
The club will take nominations from the floor but you must have the consent of the person that you are nominating for an office. The election will take place at the December meeting.

PL or CTS is something that some people feel they could live without but in today's crowded VHF/UHF bands where we keep picking up more and more repeaters and repeater users, there is a way of making sure that you are listening to the repeater you want to listen to and that you are talking to the repeater of your choice.

Well, for years we have been telling you that you are going to need PL! Everything that we now use requires PL except for entrance into the 146.73 repeater. If your friends do not have PL, then you will have to tell them to meet you on "73."

For those of you using Touch Tone (TT) encoded squelch signals where you send out 1-5 TT digits to open another hams squelched transceiver, you will need to contact me as soon as possible since the new autopatch system could "kill" your TT signals.

73, Stan W9FQN

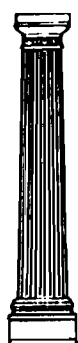


NEWSLETTER HELPERS  
- October 1991 SCOPE -  
Members, Ads, Labels, JoAshley . KB6NMK  
sorting, grouping  
Membership Data, Bill Whipple N6COU  
Billing Ad, etc, John Tentor . W6OLQ

## No.1 5A Field Day!

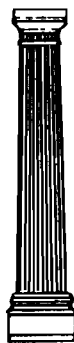


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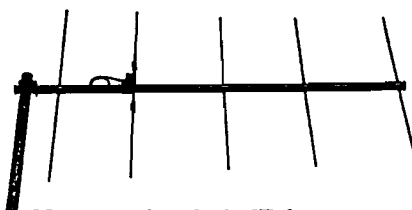
LOYAL M. HANSON  
Registered U.S. Patent Attorney  
Fallbrook 723-0620

#####  
### RECOGNITION of ###  
##### (thanks) #####  
#####

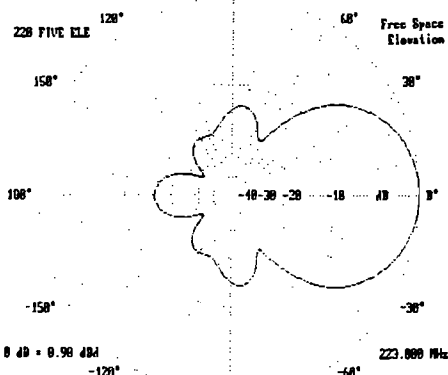
Art-KC6UQH and Chuck-KE6SE for

Folding/Staples, Jack Hanthorn KI6JM  
also provided QTH & refreshments  
Labels, Audry Hanthorn, no license  
Folding/Staples, Lloyd Hunt .. W6TFB  
Printing/Forms, Stan Rohrer . W9FQN  
Without these people life would

### 223 Mhz Yagi Optimized Design



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offering the club the use of their  
climbing belts. Now if we just had  
a few bodies to put in them!

- BK -

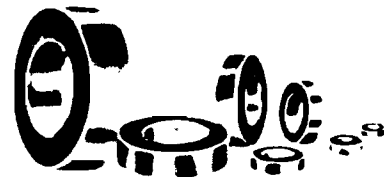
Paul-KZ6X for his help in  
obtaining for the club 500' of 9913

certainly be difficult. THANKS!!

If you live in the Vista or the  
Oceanside area we really could use  
some extra help for an hour or so.

Printed 470 Mailed 446

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coax cable to be used at the  
repeater site.

- BK -

Jo-KB6NMK for the "fancy" clip  
art about Field Day ..I just love to  
clip and paste as some of you have



noticed.

- BK -

Anita Nye-KB6YHY for letting me see a copy of the News Letter which she and Art-KB6YHZ produce for the Vista Garden Club: THE CRICKET'S CHIRP.

Tom-KC6ZVI for seeing that W9FQN received a manual for the DWP-210 printer he bought at the Auction and to John-WB6IQS for getting me set up with an Mini Uninterruptible AC Power Supply (UPS) system to keep my giant computer from loosing files due to power outages or fluctuations.

#####  
 ### R E P E A T E R S, etc. ###  
 #####

TECHNICAL: John Kuivinen.....WB6IQS  
 - - TRUSTEES - -

W6NWG/R: Ron Wilhelmy ...WI6B->  
 146.730(-) and 449.425(-)

145.05(s)pkt W6NWG-1 or PALMAR  
 KA6UAI/R: Erik Thompson, 147.130(+)  
 WA6IPD/R: Art Rideout, 146.175(+)  
 WD6HFR/R: Ron Berger-NE6T, 224.900(-)  
 (All CTCSS(PL) tones are 107.2Hz)

The new autopatches have the option of "muting" the tones being sent which is ok for your sending of telephone numbers since these do not need to be broadcast over our repeaters, but it should be noted that if we do remove the touch tones (TT) from our repeaters that you will not be able to use TT encoded squelch on our repeaters ..bummer. If you are using TT encoded squelch or plan to in the future, please contact W9FQN as soon as possible. We do have a solution to your problem.

- BK -

PARC does not encourage members talking to other stations through our repeaters who ARE NOT in San Diego County or Mexico. If you have a sked with someone, thats ok, but to just talk to someone out of county on our repeaters is discouraged. If they are not in SD Co., then they are probably bringing

up several other repeaters on our assigned frequencies trashing the other repeaters with "one ways." We selected our site on Palomar Mountain so that we ONLY covered SD Co. and we would like to keep it that way. It is our understanding that home stations in Palos Verdes and Cucamonga can hit our repeaters if they are up high, use beams, and/or run high power but this only happens just a few times per year.

- BK -

Be careful of talking to US stations with XE (Mexican) prefixes that ARE IN the USA since they probably only have NOVICE licenses and are operating in the US illegally. USA stations in the US use ONLY USA calls.

##### WORK PARTIES #####  
 ##### (you too can have fun) #####  
 ##### (before it snows) #####

(9-26) Jerry-WB6FMT and Stan-W9FQN spent the afternoon putting together seven IDer boards for various PARC past and future projects: links (various), DFing, and autopatch units. IDer units usually cost \$60-90 each and ours are costing us about \$14 plus construction time: a real bargain. Chuck-WB6IGP puts together for us the IDer box of parts for \$12.50 and programs the chips for us. Chuck is the author of ABOVE AND BEYOND (VHF and microwave) which can be found in each issue of 73 magazine.

- BK -

(9-29) Mike-KC6KCQ worked on the 3,200Ahr battery connections in the battery shed and the generator-battery shed so that we can control all of the emergency batteries.

Jim-KC6PAS and Stan-W9FQN worked on the battery shed roof ..removing same and putting on a new plywood roof high enough that we won't be bumping our heads anymore. Jim is finishing up the building on his new house so with his woodworking skills things went more rapidly than I thought it would. The plywood roof now needs to be covered with metal

sheeting. Eight cement blocks (14"x14"x2") were laid on part of the dirt floor and it was decided to finish the job next trip with ten more. All property corner stakes are now properly marked with stakes and ribbon.

John-WB6IQS, Jerry-WB6FMT, and Steve-N6UIA worked on the new autopatch system most of the day. Most of the problems revolved around the connections that needed to be made to the 146.730 repeater for proper operation: keying lines, audio lines in and out, and matching or impedances. It all takes time with John spending hours building up a special card for the Motorola repeater. Paul-N6XUT, Jerry's father-in-law, came along to see that Jerry kept busy.

The temporary autopatch antennas (we presently have path noise) will be moved to the main tower as soon as the test period is finished and on the next two trips we will try to get the 449.425 repeater connected up to the new autopatch system.

- BK -

(10-06) John-WB6IQS worked on the 449.425 repeater on Palomar Mountain which "just stopped" working ..after looking at several possibilities it suddenly started working ..never did find the problem. John also looked into the plug-in card which needs to be added for the new autopatch system. The 146.73 repeater also has a problem from time to time and wants to "hang up" on us. We wish it would just go bad so we could fix it! Its so hard to fix something which is working when you arrive at the mountain. The 449.425 repeater was placed on permanent PL of 107.2 and it also has a PL of 107.2 on its output for those of you who have PL decoders built into your rigs.

- BK -

(10-13) Jim-KC6PAS and Mike-KC6KCQ almost finished the internal bracing for the battery shed roof while Stan-W9FQN painted all of the plywood roof and edges.



(10-20) Erik-KA6UAI replaced the 147.13 repeater with an emergency unit so that work can be done on the main repeater. The main repeater should be back on the air by November 17th. The substitute repeater will have no autopatch or 10m link. The modified repeater will probably have no 10m link but it will be part of the new autopatch system.

Jim-KC6PAS, our resident carpenter, single handed finished the battery shed internal bracing and added the tin roof. There are still a few minor things to be done to the building but it is basically ready for the winter.

Art-KC6UQH and Ralph-KC6WAN worked with the cables, connectors, and stuffing the four 9913 cables into a plastic jacket. 9913 cable

has a loss of 1.5 db/100ft and our hardline .8 db/100ft at 2m so the change will not noticeably degrade the performance of our 2m repeaters but it will certainly be a great help to our 450 projects where the loss at 450 is 2.9 for 9913 and 1.5 for our hardline. We will attempt to return many of the 2m antennas to hardline if we can get several hardline runs repaired.

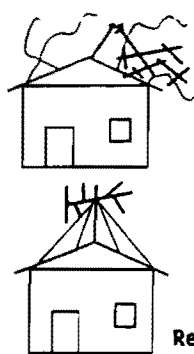
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Mike-WB6CSH cleaned out the coax junction box and checked the 1,600 Ahr cells measuring the Specific Gravity with an index of refraction device and then topped off each cell with 5 cups of distilled water. We learned that the best way of measuring the SpGr was to tap the cells first allowing the bubbles to rise and mix the acid on the way up. The "trickle" charge is 1.5A for the cells. The repaired cell seems to be holding up nicely.

Phil-KC60EI helped with many jobs but scrapped and painted at the repeater bunker. He was so anxious to help that he came up a day early trying to help.

John-WB6IQS, with \$5,000 worth of equipment, checked out repeaters, coax, and antennas. Its great to have someone who knows what he is doing running the test equipment.

Jerry-WB6FMT stayed home and worked on the autopatch system completing the electronics for the next two patches and then checked out the new patch on 146.73 after the new antennas were installed. Everything worked fine.

Chuck-KI6TG, our mountain and tower climber, went aloft and 1) pulled up four 9913 coax cables in a tube jacket, 2) installed the new Diamond 450/2m antenna at 60' and attached hardline to it, 3) removed hardline from 146.73, 145.05, and 147.13 to be used in other antenna projects requiring low loss cable, 4) checked out the tower bolted at the 70' level, and 5) taped all connections. He was assisted up on the tower by Stan-W9FQN. The club should really keep at the site a climbing harness like Chuck's equipment for climbing the tower.

It is light, strong, and comfortable ..which a lineman's belt IS NOT! After 3-4 hours on the tower you start to think of comfort.

If you have never been to the repeater site on a work detail, you are really missing out on a great experience! Remember, you get an activity ticket for coming up to work with us. First time workers this trip were: KC60EI, WB6CSH, KC6WAN, and KC6UQH.

Our repeaters in the PARC bunker on Palomar Mt. at 5,600' cover 2,000 sq.mi. of SD.Co. and 100+ miles out to sea. It is club policy that these repeaters are open repeaters FOR CLUB MEMBERS AND OCCASIONAL TRANSIENT USERS with the AUTO PATCHES being ONLY for club members. Be FRIENDLY to those that you talk to, and INVITE them to support the

club with their membership since they are using the repeaters in the PARC bunker. You can check their membership in PARC by asking them if they have seen something in the most recent SCOPE.

**NEW**

#####  
 ### AUTO PATCHES ###  
 #####

For the 146.73 patch->>

**#1**

" BK BK . . BK "

Rxy ! dial ! talk ! to end  
 (3tones)!(749-0276)! back ! "N6QDB/M  
 then ! or ! and ! CLEAR  
 "N6QDB/M! your ! forth! PATCH"  
 ACCESS ! number ! . . . ! then  
 PATCH" ! here ! . . . ! (1-tone)#

The " " in example above indicates your "push-to-talk" pushed. The BK is where you listen. The Rxy code is:

R=No. after decimal pt of repeater.  
 146.(7)30 or 7xy

The "xy" is from a club officer or from your personalized address label on the front of your SCOPE ea month.

The 147.130 repeater is to be added to the system by December 8th. The 449.425 repeater by January 5th.

=====

USE A 107.2 PL FOR ALL AUTOPATCHES!

=====

Do not discuss autopatch codes or autopatch PL codes EVEN TO MEMBERS OVER THE AIR. Use your home phone for such discussions. The new codes for all areas and repeaters will be discussed at the November meeting.

Each Patch serves the exchanges listed below with their projected operational dates.

=(VISTA)=.73=====upper  
 Encinitas, Carlsbad, Oceanside, Vista  
 S.M., Escondido, Villy Ctr, Fallbrook  
 Jerry Houser-WB6FMT: up Rxy & down #  
 This patch was operational Oct20.

=S.DIEGO-MIRA MESA)=.73=====middle  
 DelMar, R.SantaFe, R.Bernardo, Poway  
 La Jolla, Mira Mesa, Linda Vista, SD  
 Del Partridge-WV6Z: up Rxy & down #

This patch to be operation by Nov10.

=(LA MESA)=.73=====lower  
 Alpine, ElCajon, LaMesa, NatCity, SD  
 Coronado, Chula Vista, Dulzura  
 Kerry Banke-N6IZW: up Rxy & down #  
 This patch to be operation by Nov17.

=(FALLBROOK)=.175=====middle  
 Oceanside, Vista, Escondido, Villy Ctr  
 Art Rideout-WA6IPD: up \*04 & down #  
 This patch has been operational.

(la mapa)

upper	.73
Pendleton	Fallbrook Valley Ctr
Oceanside	Bonsall
Carls-	Vista SM Escondido
bad R.S.Fe	middle-*****
En. *****	R.Bernardo
*****	Mira Mesa Poway
D.M. Linda Vista	*****
L.J. San Diego	El Cajon
*****	Alpine-
Coronado	La Mesa Harbison
Nat. City	
Chula Vista	Dulzura
lower	

The lower third will probably cover most of San Diego too.

If your area is not covered, please contact a club officer.

Only the 146.73 repeater will be connected to the patches in Nov.

Please note that the club and Jerry-WB6FMT have two autopatch schedules that we have been attempting to meet: 1)connecting up to three of the four repeaters on Palomar Mountain, and 2)connecting up to three sections of SD.Co. That is almost like connecting up 9 autopatches. The system is capable of acting like 12 autopatches although we will only have one of them connected in October and three or possibly six of them connected in November. It is probably the only system of its kind in the world and it remains to be seen how effective it does what it is supposed to do. If one repeater is being used for chit-chat, just switch to another repeater in the bunker and use the autopatch on that frequency. All autopatches have been finished and

checked out and they will be installed in November as rapidly as possible. Come to the November club meeting for the latest information if you are interested in the patches.

**#1**

In November, if you cannot get a dial tone, your problem could be 1)weak signal into the repeater, 2)poor tones, or 3)the patch is not in operation. In December you might not get a dial tone if the patch is being used by the KA6UAI repeater on 147.130. Before using the patch you might just check each repeater to see if the patch is already in use. We do not expect problems of this type for quite a while until usage increases significantly. At that time we might have to install a "busy signal" indicator and possibly other goodies.

One change in the schedule has been that since we are changing the autopatches, Erik wanted to remove the old autopatch system from 147.13 and replace it with the new system as soon as possible. This means that 147.13 will have no autopatch on it after October 20th and that he will be connected up to the new system before the announced January date ...probably by the 1st of December. As a whole, the new system is ahead of schedule at this date ..but we still could run into problems. We are having some problems with the telephone company in trying to get PARC's name placed on the phone bill as the operator of the phone. We hope to have EVERYTHING completed by January 5th.

The autopatch system is designed to allow emergency calls to most locations in San Diego County west of the mountains with a minimum of interruption due to main trunk lines being severed (not all our eggs are in one basket). If the autopatch system would have been in Valley Center using an 800 number last year, you would not have been able to make emergency calls outside of

**#1****No.1 5A Field Day!**

Valley Center because the fire destroyed the trunk lines for several days. The 800 numbers are simple to work with but do have their problems.

With the new system we might lose certain exchanges during earthquakes and fires but we probably could access the remaining 60-70% of the county. A portable patch could probably be set up to access part of the remaining 30-40% when trunk lines are cut or voice relay stations could be set up using portable phone patches like many hams presently use for HF communication patches.

A lot of SCOPE space has been taken up with the autopatches the past few months because we thought that you would be interested in what is happening with the project. We hope that in the future autopatch information will be more "routine" in nature and not command so much space in the SCOPE.

#####  
## - FORSAIL  
#####



PARC will be taking a load of donated surplus items to the Santee Swap Meet, Saturday, November 2nd, and we will need club members to help with the selling of the items. By having 4-5 amateurs helping there will always be time for you to walk around and look at the rest of the swap meet items. Please contact W9FQN for information on how to help.

- BK -

If you have an item for sale, bring it to the SALE TABLE at the club meetings, tagged with name, call and minimum price, if any. The Club takes 10% and you go home with \$\$\$. PARC takes NO % on the ads below and they ARE FREE TO CLUB MEMBERS. The month of first being run is indicated by date at the beginning of the ad. PLEASE tell us when the item(s) are sold.

Deadline FORSAIL items is the 15th of the month addressed to the editor at his home address: 30311 Circle R Ln, V.C., CA 92082-9423 or call 749-0276. Late items will appear the following month.

SILENT KEY'S ESTATES: A club member is appointed by the PARC executive committee to handle each individual station with initial contact by Eleanore-N6QJE and pricing of equipment being done by a PARC committee headed by Dennis-N6KI. Announcements of Silent Keys in the SCOPE is done only after PARC contact with the family.

MEMBER'S FREE ADS are for the sale of their own used personal equipment, or for the sale of approved PARC Silent Key Estates (which must be so designated in the ad.) Sale of new items or other items incidental to a commercial operation should be done through the purchase of a PARC paid ad with the exception of items offered by PARC.

SWAPMEETS: Dennis-N6KI (price\$); John-WB6IQS (VHF, UHF, Hardline); Kerry-N6IZW (Microwave & test equipment); Paul-KB5MU (Pkt, Computers); and Bill-KB6MCU (ATV).

- BK -

(10-26) Several transformers in original boxes (old timers probably with PCB's), 100 pound, a) 230v no taps, out 2100, 2625, and 3150vac @ .5A6, b) 110 or 220vP, out 4,800, 5760v @ .5A CT HV transformers for that 2,000+ watt amplifier you always wanted to build, or give as a present to that DX friend who needs a super amplifier, night crawler stimulator, do it yourself electric chair, or for a charged electric fence for complete privacy around the home, \$10 each for one of the biggest charge\$ you could ever get (once in a life time offer): PARC-Hillside-Electronics-W9FQN-749-0276-VillyCtr.

- BK -

(10-24) Kenwood TH-25AT 2m HT w/2 PB-6 batteries \$225. Dennis-N6KI-271-6079-Mira Mesa.

- BK -

(10-22) Plotter A or B size, 8 pens,

Royland DXY-800 w/paper/pens \$150; 1200 baud IBM internal modum card \$20; 2-EGA enhanced cards \$25/ea: John-WB6IQS-724-8380-Vista.

- BK -

(10-21) Mint 2ea stackable 434MHz beams with power divider, for fo ATV \$75; Heath special antenna for WWV World's Most Accurate Clock \$25: Don-AA6WS-291-5229-SD.

- BK -

(9-25) 8' parabolic aluminum dish + mount \$50: Gary-KK6YB-480-2917-Escondido.

- BK -

(9-3) Heathkit HW101 xcvr w/pwr, Versa Deluxe Tuner, key, & headphones. Great rig for beginner \$200: John-670-4078-Spring Valley.

- BK -

(8-28) Bamboo poles from small to 4" dia (great for the really big fish); solid Fiberglass poles 8' good for masts: Larry-WQ6V-726-0353-Vista.

- BK -

(8-23) Yaesu FNB-10 battery \$10; Yaesu FTT-4 TTPad for FT-23/73 \$10; Jerry-WB6FMT-758-4388-Vista.

- BK -

(8-22) R.F.Labs GM solid state amp mod V76 (120w out) \$250; Yaesu FT-726R 2m + 6M + 430 & satellite xcvr YM-48 mic, spk console audio filters, SP-102, ex cond \$1,250; El Key paddle \$30; B&W sw mod 594 \$20; Hustler Fiberglass mast 54" \$20; mobile bumper mt w/ball-spring \$30; Ten-Tec Mobile ant mod 3101 15M \$20, mod 3109 20m \$20; Hustler resonator RM-75 new cond \$20: Krist-W6KTE-941-3555-Vista.

- BK -

Tubes for sale ..all kinds ..all sizes ..part of PARC tube yard: Larry for PARC-KC6PEN-439-4109-0csd.

#### OTHER PARC ITEMS

M83 Ham Interface software with manual; PK-64 Packet; Kenwood TM-TS-700(SP) service manual \$2; tri-band beams; headphones (assorted); Vic 20 computer w/monitor, recorder & programs; Heath Daisy wheel printer (needs adjustment); and assorted goodies: PARC-Hillside-Electronics-W9FQN-749-0276-VillyCtr.

- BK -

(8-17)Kenwood MC-85 Desk mic w/equalizer \$75; B&W VS-300A HF 300w ant tuner \$70; Tempo One 100w HF xcvr \$150; 1991 ARRL Handbook (used) \$21; Duane-AA6EE-789-3674-Ramona.

- BK -

(8-14)12v gel cell batteries (YUASA) guaranteed like new (great for emergency use with HT or public service events) \$5/ea and lots of tubes: Mike-KC6KCQ-742-1573-Palomar Mt. (I bought 6 of his batteries for emergency use (Ed-W9FQN).

- BK -

(7-4)700' RG-8 52 ohm coax 30c/ft: Jim-KA60LZ-434-2722-Carlsbad.

- BK -

(5-4)50' Rohn TOWER 56H (non-tubular): (Past PARC Pres) Ed-N6GZI-297-7758-S.D.

#####- WANTED -#####

#1

(10-23)Anyone wishing to subscribe to 73 MAGAZINE, please see W9FQN at the November meeting and have your check for \$19.97 for 12 issues.

- BK -

(10-15)Mike-KC6KCQ reports the misplacing of three lawn chairs at the club picnic which had his name on them. If anyone saw the chairs, please give Mike or one of the club officers a call.

- BK -

(10-10)The club is looking for several small AC wall transformers, 1)9->12V DC @ 500ma and 2)15VAC @ 300ma; C-64 morse code program for member's use and for sending code practice on the Wednesday evening code practice net; tape recorder with 1-7/8 low speed position for autopatch system: PARC-W6NWG-W9FQN-749-0276.

- BK -

(9-17)Need mic for Kenwood Xcvr, 4pin, MC-30, or MC-35; frequency counter: Allen-N7AMR-434-5656-Carlsbad.

#####  
 #### - M E M B E R S H I P - ####  
 #####

At the end of each club year (July 31st) membership drops because of club members moving, disenchanted with us or amateur radio, forgot to renew, etc. But in the end we always end up the club year with more members than we had the year before. Recently we thought we might hit 400 members by the end of this past club year but we ended up with 450 members.

We are now at 410 members but should pass 450 within several months as the "forgots" and new memberships come into us. We are guessing that we will hit near 500 by next August. We have always been one of the largest club groups (excluding repeater associations) in California and the USA and an ARRL publication indicates we are 13th in size among the ARRL Special Service Clubs.

Being large is not our intention. Our intention is to be of service to radio amateurs in San Diego County and to the public in time of need. While some join PARC because of the repeaters and autopatches, others join because of our involvement in a club program with attendance between 80-110 at meetings.

If we are not serving your needs, please let us know about your interests.

If you have an area of expertise and would like to contribute in some way to the operation of the club, please contact me (W9FQN) or a club officer.

RENEW: Chad-N6ZPU; Betsy-KB6MBL; Earl-KC6CLU; Bill-KC6BIM; Sam-N6XXU; Shannon-KC6NRB; Mark-N6NNI; Walter-KC6OXZ; Bud-KG6VX & Caroline-KB6MPZ; John-WB6SML; Dennis-N6KVV.

#### A SPECIAL WELCOME TO NEW MEMBERS:

Bill Wisto-WB6THH, Rich Ritter-KC6ZUW; Tom Kadien-KC6ZVI; Duane Patocka-N6RVA; Richard Dewey-N6KC; Bill Latham-AB4P1Q; Ted Luttmann-

KC6MWR; Dan McGrath-KD6ASG, SD; Richard Henke-K6SPX, Vista; Mark Petrina-KC6ZRV, Oceanside; Joel Bacaycay-KC6ZRZ, SD; Pete Foretic-N6K6Z, SD.

NEW ASSOCIATE: Charles Swenson, Vista; Charles Reeves, Escondido.

NEW CALL: Richard-KC6PPM is now KM6DH; Bob Garcia Associate to KD6BFN.

NEW ADDRESS: David-KC6NSA, 672-2594, 11012 Carmel Mtn Rd, SD 92129; Dave Griffith, 751-1210, 9630 Calle De La Riena, Escondido 92026.

SCOPE: Steve Kerrin-WA6CDU.

INTERESTS: Duane-N6RYA Navy MARS, 2m Packet; Ted-KC6MWR 10x Int.; Bill-KC6BIM SAR (what is that, Bill?); Dan-KD6ASB interested in History & the Ocean; Mark-KC6ZRV in Electronics; Charles in computers and 10m DX; Mark-N6NNI in establishing a VE team in Rancho Bernardo on Wednesday evenings (once/mo) as an arm of PARC VE; Shannon-KC6NRB in computer BBS's ..try calling his YET ANOTHER ESCONDIDO BBS at 738-5132 where they have an amateur radio related board.

C.J. Ho-N6YEI writes he just graduated from UCSD and now lives in San Jose where he has a new job ..he says "HI" to N6KI an TNX to everyone. Earl Leak-K6CLU, formerly of Vista, and lately from 38 Riviera, Grants Pass. OR. 97527, sends his "hello" to everyone and hopes to attend a meeting sometime soon. Charles Swenson joined because of WA6HYC.

A nice note from KD6ASG: ..before July ..the only aspect of amateur radio that I was aware of was that it was possible to talk to people all over the world ..this change ..when fiance and I visited the Del Mar Fair ..stopped at SANDARC amateur radio exhibit ..met members of North Shores ARC ..good



demonstration ..three months later received Tech license ..Amy ..awaiting her license ..would like to thank those individuals who provided ..demonstrations ..and to everyone in the Palomar ARC who so kindly responded to a new call sign 73, Dan-KD6ASG.

New members joining late in the month will be included in next month's SCOPE.

#####  
## PARC VE TESTING ##  
#####

FCC LICENSE EXAMS in N.County are conducted by the PARC VE Team at the Carlsbad Safety Center in Carlsbad (Camino Real -> Faraday, 14F6, follow CSC signs) on the 2nd Sat. of the month at 1000 Hrs. Walk-ins are not encouraged. FCC 610 forms are available from Jo-KB6NMK at PARC meetings or from the FCC office in Kearny Mesa, 4542 Ruffner, 467-0549.

REPEAT! VE EXAMS FROM NOW ON WILL BE AT CARLSBAD SAFETY CENTER!

Other SANDARC-VEC exams: 1st Sat.El Cajon, 3rd Normal Heights, 4th Chula Vista, & last Escondido ARS at Blind Center, 157 E.Villy Parkway.

Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTO-COPIES) and copies of license(s) and certificate(s) of successful completion, if any, to SANDARC-VEC. PO Box 2446, La Mesa, CA 91943 10 days B4 the test date. Bring ORIGINALS of licenses & certificates. Questions: call SANDARC 465-EXAM.

NONE->TECH: Eugene Kissinger, Charles Stahlheber Sr, Lawrence Schultz & John Tyler III. Thorpe.

NOVICE->TECH: Karelle Lusby & Kristelle Lusby.

NOVICE/TECH->GENERAL: Wilbert Larson.

GENERAL->ADVANCED: Susan McConklin.

CERTIFICATES ONLY: Barbara Doyle, Maureen Pulse, Rick Fuller & David

Tennant (el 2); and Mike Doyle (4B).

VE TEAM: Mark Moskowitz-AA6TR, Sam Burdette-W6YV, Jack Hanthorn-KI6JM, Lloyd Hunt-W6TFB, John Kolb-KK6IL, and Rusty Masse-AA6DM.

de A A 6 O M, Rusty Masse  
747-5872, 1249 Nordahl Rd, Esc92026  
THESE HAMS ARE DOING A GREAT JOB  
WITH THE VE PROGRAM AND DESERVE THE  
THANKS OF ALL CLUB MEMBERS! If you  
can help in any way, please contact  
Rusty.

FCC-issued call signs -

	Extra	Advan	Tech/Gen	Novice
Feb	AB6AP	KK6VV	"gone"	KC6RJT
Apr	AB6BS	KK6YI	"gone"	KC6TCJ
Jun	AB6DC	KM6BX	"gone"	KC6VVV
Jul	AB6DO	KM6CX	"gone"	KC6WRW
Aug	AB6EB	KM6FT	"gone"	KC6ZCM
Sep	AB6EX	KM6HY	"gone"	KD6AKN

#####  
#####- N E T S -#####  
#####

Updated preambles for the evening traffic net should now be in the hands of net controls.

- BK -

If any net control would like to have the time out timer turned off for your net, contact a control operator. On 147.130 net controls should remember to have the PL turned OFF before the beginning the net. This is usually done 30 or more minutes before the net.

146.73 WEEKLY EVENTS

NIGHTLY 2000 S.Diego Co Traffic Net  
(except 1st Wed club meeting)

Net managers:::N6RVO/N6TJT  
Mo-N6WVP,Tu-N6RVO,We-WAIZEN,  
Th-W6EYP,F-N6TJT,Sa-N6NZX,  
Su-N6TEP

MON 2100 Microwave Net:::N6IZW

TUE 2100 Pkt.Voice Net:::KB5MU

WED 2100 Code:::W9FQN, N6NZX

THU 2100 Ham Help Net:::KC6PEN

KK6IL, N6YMD, KC6UQH

SUN 0830 PARC EmergServ:::W9FQN

KB6NMK, W6HCD,N6NZX,KB6NZA,

WB6HFE,N6QQF,WA6UTQ, N6QJE,

N6UIA, W6JSP, N6WEG, N6WEF

SUN 1000 Sailing:::W6QCA, AA6TR

SUN 2100 ARES Planning:::WDODLW

KC6CZO, K7DCG

147.13 WEEKLY EVENTS

SAT 1930 YoungPeople Net:::>

Chris-KC6QOJ & David-KC6VMR

NIGHTLY 2230 King Henry Facetious6p

O T H E R N E T S

MON 1930 RACES Net on 147.195

THU 2000 Young People'sNt 28.39

Chris-KC6QOJ & David-KC6VMR

NIGHTLY 1:30Z Maritime Net 28.313

(So.Cal.)::::Mark-AA6TR

Please send corrections/additions to the editor.

#####  
### GENERAL NEWS ###  
#####

W B 6 I Q S in R U S S I A

It's not a vacation, it's an experience. I had been wanting to visit Eastern Europe since the beginning of the thaw in the cold war. It was interesting to be to see the changes from the old centrally planned autocratic system to the beginnings of a limited free enterprise economy.

Originally I had planned on a trip to Yugoslavia, Romania, Bulgaria and Turkey, but the Gulf was put a damper on that plan. Then I began looking at East Germany, Poland and the U.S.S.R. East Germany was quickly becoming absorbed into the West, Poland was in the start of the process and Russia was years away from throwing off the old Communist system (or so I thought).

Our tour started in London in early August. We crossed the North Sea to Holland and then started the formal bus tour across the continent. Major points were in Berlin where we saw the former East German border check points and the remnants of the "wall." Next stops Warsaw, Poland; Brest, U.S.S.R.; Minsk, Smolensk and at the half way point Moscow. At the U.S.S.R. border we picked up our Intourist guide. She was specially assigned

NOV'91

to our bus to act as an interpreter and to direct us on the Russian "freeway" system.

We arrived in Moscow Friday, August 16th in the early evening. The hotel was typical, clean but very old fashioned, the tap water was a kind of weak tea color and there actually was hot water available.

Saturday and Sunday were scheduled touring days with visits to the statues of Lenin, Lenin's tomb, KGB headquarters (outside only), the Kremlin etc. Sunday night we visited the Moscow circus and even without being able to speak Russian the show was very entertaining and funny. The only hint of what was to come was from the Intourist guide. She kept remarking that the traffic was unusually light, there must be something wrong here because the streets were almost empty of vehicles and tourist busses. We did not know that the coup had already started, they had closed Moscow airport and most of the major roads leading into Moscow.

Monday afternoon we were scheduled to start our trip north to Leningrad, but the coup attempt provided an extra unscheduled event. At breakfast the noise of the truck traffic was unusually loud. We could not see the road from the restaurant, but when someone went to investigate they reported tanks and armored personnel carriers streaming into downtown Moscow!

We never felt that we were in any personal danger, but there was some apprehension that the trip might be cut short or we would be evacuated out of the country. After deliberation with the Intourist guide we returned to downtown Moscow to have a special prepaid Russian meal with red and black caviar, Russian champagne, deep fried chicken, special vegetables, etc.

This was our best meal in Russia and it was done during the sounds of the public address horns, crowds, military vehicles and even the beginnings of hastily erected roadblocks set up by the people of Moscow.

We continued on to Leningrad and began to learn of the magnitude of the troubles that were going on in the country. There were no local television reports or newspapers, but the Russian people were being informed from the Voice of America and the BBC. Telephones to the outside were down and there was no way to inform anyone of our status except by Telex.

In Leningrad we visited the October Ballet and saw two Mozart(?sp) ballets. The Marriage of Figaro and The Requiem Mass. Since I had seen the movie Amadeus I was familiar with the music but had never seen a ballet performance.

We finally left the U.S.S.R. for Finland and learned the full impact of the changes that were going on. Cable News Network (CNN) reports showed the riots and tanks burning, but we had never seen any serious problems during our stay in Moscow. Even the mayor of Leningrad had been able to stop a column of tanks that had been sent to seize power in his city. The Russian army was not going to follow orders blindly anymore and they refused to go along with the coup leaders. The coup had failed.

I was able to call from Finland to the U.S. and my parents were relieved to hear from me. We continued our tour and went to Sweden, Denmark, Holland, finally returning to London about August 27th.

Pictures and slides are being developed now. I have quite a few souvenirs and a lot of interesting memories. -- 73, John-WB6IQS

(Ed- as Barbara and I watched the tanks burning we wondered where John was and if he would be able to get "out of town." John had left his itinerary with us so we knew where he was supposed to be each day of the coup. We had many anxious moments.)

- BK -

Joe-KC6QXU just received information that he scored 1st in California for the 10-10 International phone contest last summer with 266 contacts. Joe was only running 85 watts to a Rudy Plak inverted V antenna which recently has been upgraded to a 10m quad beam ..wait till next year!

- BK -

Dennis-N6KI is the Technical Director of the upcoming 3W3, The American-Vietnam-DXpedition-Team, attempting to operate 3W3 in Vietnam which is one of the rarer DX countries for many hams. Terry Dubson from Escondido is the operations director. Lately they have been experiencing some difficulties in getting traveling permission and we will keep you posted.

- BK -

(10-7)Ken-N6AKB on his way to work handled an accident report (147.13) from Jeff-N6WDN on Black Mountain road with injuries ..and then found out that one vehicle contained radioactive materials! (Wonder if my old Geiger counter can still count Geigers - Ed)

- BK -

Chuck-W6IRM who walks every morning in Oceanside just celebrated his 80th birthday in October.

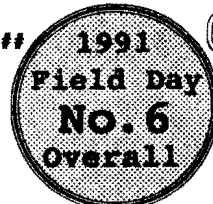
- BK -

Art Smith, W6INI, San Diego's ARRL Section Manager, had one of his articles published in WORLD RADIO for October 1991.

- BK -

The June '91 issue of CQ magazine lists AA6EE with 3,003 points in the '91 World Radio Team Championship.

\*\*\*\*\*



Yea Dennis



#####  
 ### TECHNICAL / HAM HELP ###  
 #####

Eleanore-N6QJE passes along the information that Atlas repairs can be done by Guy Mallard Jr.-W6IYK at 302 Mission Ave, Oceanside, 92054 ...I hear him on our repeaters now and then.

- BK -

de Phil, KC6OEI

#### GLUE GUN FUN

I've recently used a hot-melt glue gun and some inexpensive parts to lash up a 12-volt power source for my 2-meter HT.

I took two 6-volt, 8-ampere-hour gel cells and wired them in series. The first application of the glue gun was to make the pair of batteries, side-by-side, into a compact brick. A zig-zag of glue on the manufacturer's lettering worked well. Then, I ran a line of glue to fill the gap in the top surface of the "brick", and pressed the 18-gauge two-conductor wire in. Another line of glue on top of the wire makes for neatness, security and strain relief. The short lengths of wire between the fuse clip and the battery terminals are also held in place and covered by a line of glue.

I glued a 3AG-type fuse clip and a one-amp fuse to the top surface of the "brick" and even remembered to

glue a box of spares to the side.

All that's left is to glue on strips of flat nylon webbing for carry handles.

- BK -

Please send items for this column to the temporary editor, W9FQN, and they will be used on a space available basis. Don't forget the Thursday evening HAM HELP net run by Larry-KC6PEN and crew if you have questions on amateur radio. Someone checking in on the net should be able to help you with your problems or they will try to find someone to help you.



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**No.1 5A Field Day!**

Yea Dennis



## Palomar Amateur Radio Club Enlistment / Re-enlistment Application



AMATEUR CALL	CLASS OF LICENCE N T T+ G A E	
ARRL MEMBER Yes No	DATE FIRST LICENCED	
LAST NAME	OLD CALLS	
FIRST NAME	DATE OF BIRTH	
STREET ADDRESS	RACES	Yes No
	ARES	Yes No
CITY & STATE	RED FLAG	Yes No
ZIP CODE	BLOOD DONOR ?	BOOD TYPE
HOME PHONE #	WORK OR OTHER PHONE #	
THOS. BROS. MAP LOCATION	INTERESTS	
LICENCE EXPIRES	PARC FAMILY MEMBERS	

Mail this form with your check to PARC, P.O. Box 1603, Vista, Ca 92085-1603 or hand to Jo, KB6NMK at club meetings. Prefer checks to cash, it's safer and you have a record.

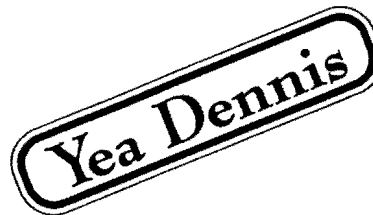
Dues (including Scope) are \$12 a year plus \$9 for each additional family member at the same address.

Dues are prorated for NEW members: Aug, Sept, Oct, \$12; Nov \$9, Dec \$8, Jan \$7, Feb \$6, Mar \$5, April \$4, May \$3, June \$2, July \$1. Family members 75% of full price. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Call, name and complete address are required. Telephone number is requested but may be unlisted in roster if preferred. Other information may be omitted if you feel uncomfortable providing it to the club.

Comments: \_\_\_\_\_

-----  
# SCOPE, USPS 076530, published monthly by #  
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UR LAST ISSUE IF (PRC9110)



**W6NWC #1 5A Field Day 1991**



**No.1 5A Field Day!**

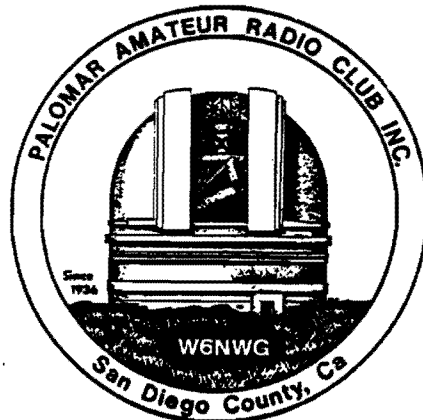


# Scope

**W6NWG**

**Palomar Amateur Radio Club Inc.**

**Post Office Box 73, Vista, California 92085-0073**



W6NWG 146.730-, .. Autopatch(PL) (P.Mt.) ! W6NWG Autopatch outlets in: !  
 W6NWG 449.425-, PL, Autopatch Jan. (P.Mt.) ! ..Upper 3rd SDCo., Vista ! 145.05 Pkt, W6NWG-1, "PALMAR" P.Mt.  
 KA6UAI 147.130+, PL, Autopatch Dec. (P.Mt.) ! ..Middle 3rd SDCo., Mira Mesa ! Club Simplex: 446.0, 146.535 SDCo.  
 WA6IPD 146.175+, PL, Autopatch (Fallbrook) ! ..Lower 3rd SDCo., La Mesa ! 220 Club SD WD6HFR 224.900- P.Mt.

VOL XXVII, NO. 12

DECEMBER

1991

55 years

December 4th meeting(1st Wed) is at Lincoln Middle School Cafeteria in Vista. I-5 or I-15 to Rd.78, Escondido Ave(Sunset) ramp, north on Esc.Ave, after 2nd light between Eucalyptus and E.Vista Way. Talk in .730.



## HAM CALENDAR

Dec 4 Wed - PARC Club Meeting  
 New officers elected  
 Dec 7 Sun - Pearl Harbour Day  
 Dec 12 Thu - PARC Executive Mtg.  
 Dec 14 Sat - Escondido Holiday  
 parade 7:30-12:00am  
 Dec 25 Wed - CHRISTMAS DAY

\*\*\* NOTE CHANGE \*\* NOTE CHANGE \*\*\*

Jan 8 Wed - Club Meeting, Vista  
 PARC new officers take charge  
There is no January 1st meeting!  
 (Send calendar items to W6FQN)

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## LAST CLUB MEETING

The November 6th program consisted of a deviation clinic by Larry-KO6PEN, Art-KO6UQH, and Mike-

KO6KQ. We have already heard many complimentary comments about the program on our repeaters.

Someone left a red SHUTTLE CENTAUR cap at the last meeting. Contact W6FQN for same.

Attending were 79 members and 17 guests present for a total of 96 (I counted over 100-Ed). Over 57% of those attending were ARRL members.

Art-KB6YHZ, Larry-KO6PEN and Larry's charming wife, Kieko, again supervised the drink and goodie table. The goodie table needs goodies so why not bring something for the next meeting. Thanks. If you don't do it, who will?

Barbara-license in the mail, wife of Mike-KO6KQ, has been sending goodies to many of our meetings which are greatly appreciated. Since this is our Christmas meeting, how about everyone making a special effort to bring in some of those favorite "low-cal" munchies next Wednesday evening - who knows, the "great big red fat man" might visit us.

## NEXT CLUB MEETING

Our next club meeting will be our annual Christmas meeting December 4th at 7:30pm in the Lincoln Middle School Cafeteria on Escondido Avenue in Vista and will feature good fellowship and some pictures by John-WB6IQS on his recent trip to Russia. Consider bringing "your other half" to this meeting.

SHOW AND TELL will feature: 1)whatever you bring in (promises, promises, promises, 2)two meter HT amplifier, and 3)more comments by Stan-W6FQN on the new autopatches since they are up and working.

## WANT TO BE A HAM

(or Dial-a-Ham)

If you or a friend are interested in becoming an amateur radio operator and in joining the Club, please contact one of the following ELMERS for more information or use the application form on the back of this issue:

BONSALL: . Nash Williams . . W6HCD  
 (Secretary, 728-3574)  
 CARDIFF: Duane Stedman:WB6R:753-4821  
 CARLSBAD: . Benton Caldwell . KK6LX  
 (Treasurer, 729-5161)  
 CARLSBAD:EleanoreCall:N6QJE:729-0850

**No.1 5A Field Day!**

ChulaVista:SteveGrant:N6RUV:422-4415  
 DEL MAR:GerrySanford:KC6BJM:755-5244  
 ENCINITAS:DaveCopley:WA6HQM:753-2605  
 ESCONDIDO: . Jo Ashley . . KB6NMK  
 (Member\$hip Chairwoman, 741-2560)  
 FALLBROOK:ArtRideout:WA6IPD:728-6834  
 La MESA: Roger Jaffe :N6UW:697-6025  
 LAKESIDE:Mac McBride:WB6GKR:561-2211  
 LEUCADIA: Bud Lincoln:KC6VX:436-9983  
 LinVistaPaulWilliamson:KB6MU:571-8585  
 MIRA MESA: Ron Earl :W6TXK:566-1959  
 OCEANSIDE:LarryGugle:KC6PEN:439-4109  
 OCEANSIDE: Lloyd Hunt:W6TFB:757-9374  
 PALMA-PALA:Mark Ross:KC6CZO:742-1539  
 POWAY:MarkSchlesinger:N6NNI:748-8391  
 RAMONA: Vernon Leming:AA6UU:789-3070  
 RanchoPen:John Tentor:W6OLQ:672-3891  
 RanchoS.Fe:RonWilhelmy:W16B:756-3133  
 S.D.:Dennis Vernacchia:N6KI:271-6079  
 SanMARCOS:FloydHarvey:W6JSP:741-8391  
 SanMARCOS:RustyMassie:AA6OM:747-5872  
 SolanaBe:LouBroadbent:N6CKQ:755-9179  
 VALLEY CENTER: . Stan Rohrer . W9FQN  
 (President, Editor 749-0276)  
 VISTA:Larry DeMontegre:WQ6V:726-0353  
 VISTA: . Jack Hanthorn . . KI6JM  
 (Vice-President, 598-0420)  
 VISTA: Jerry Houser:WB6FMI:758-4388

Gordon West's 232 page Technician Class, NEW NO-CODE, license preparation book is carried at HRO and Radio Shack dealers for \$9.95. Prospective amateurs should be encouraged to purchase this book immediately and start working on the multiple choice questions and answers.

Scottie-KH6TL is trying to get a class going in Vista sometime in January. Call Scottie at 727-8836, Vista.

MIRA MESA: Ron-W6TXK sometimes conducts classes so contact him for the latest information on the starting of his new classes, 566-1959, San Diego.

Escondido ARS sometimes conducts classes. Contact KB6NMK, 741-2560.

PARC has code tapes available for younger members who find some of the "starter" packages a little too expensive, but you will need a current test booklet. We also have IBM compatible disks of a great code program available at club meetings.

If you have a good code program, please make up a disk with it and several other programs for us to get new hams started. The club will exchange disks with you. We need programs for Apple and C-64's. We presently have programs for IBM and Radio Shack Mod III & IV.

One of our members from Fallbrook, Ray-KK6CA, has consented to make up special code tapes for those wanting special types of code practice material. Please bring in your blank cassettes and be prepared to tell Ray what type of practice you want.

### EXECUTIVE MEETING

10-10-91 DISCUSSED: December program, \$7,116 balance, building finance, SCOPE, POBOX changed to 73, cargo container (again), Letter from N6AT on Honorary or Life PARC membership, K6HAV in Japan 18mo, SD&E road encroaching upon repeater site property (ltr sent), repeater site update, phone lines, motor-generator for batteries at repeater site, and other items too numerous to mention.

APPROVED: next exec mtg at W9FQN, \$150 packet, \$sheliac, \$antenna, special cabinets \$120, handout <\$100, Jan 1st mtg on Jan 8th, & packet xtals <\$100

IN ATTENDANCE: (officers) Stan-W9FQN, Jack-KI6JM; with Jo-KB6NMK (Membership) and John-WB6IQS (Technical). Visitors were Harry-WA6YOO and Art-KC6UQH. The November meeting was at John's QTH and we all enjoyed the drink and homemade bread. The December 12th meeting will be at Stan-W9FQN's QTH.

#####  
 ## del P R E S I D E N T E #1 ##  
 #### (after #1 comes #0!) ####  
 ##### - - (and editor) - - #####  
 #####

The last seven years as president of the Palomar Amateur Radio Club

have been interesting and rewarding. I have enjoyed first hand seeing the progress we have made over the past seven years.

I feel that most of our progress has been accomplished because of many dedicated amateurs and executive committies that have, sometimes slowly, pointed the club in the right direction.

Over the past seven years we, as a club, have progressed as follows:  
 .. Bought an \$18,000 repeater site property on Palomar Mountain.  
 .. From repeater site pole to a 80' tower started by N6GZI.  
 .. From two repeaters to five.  
 .. Backup de 200 AHR to 3,300 AHR.  
 .. No autopatches to autopatches on all repeaters.  
 .. From "also-ran" in FD to FIRST.  
 .. From no generators to one.  
 .. From no FD towers to five.  
 .. From no antenna trailers to two  
 .. From no command trailer to one.  
 .. VE Testing program each month.  
 .. Standard Operating Procedures have been written up for each officer and committee position.  
 .. From 208 members to over 450.  
 .. Secure financial position with the SCOPE and repeater site.  
 .. Policy changes that promote a better club meeting and provide more operating money for PARC.  
 .. Sound financial condition with money in the bank.

To all of you who have helped with the above accomplishments, I want to give my sincere thanks for your help, cooperation, and direction.

A most sincere thanks to the members of the Executive Committee who kept me on the straight and narrow path on some of our long Thursday evening Executive meetings:  
 V-Pres:WQ6V,KB6QC,N6CKH,NH6EW, KI6JM  
 Treasurers: W6OLQ, W16B, KK6LX  
 Secretaries: WF6L, KB6NMK, W6HCD  
 (special people)  
 SCOPE:K6HAV who really did more than

the club newsletter.

Technical: WB6IQS always being there and knowing how to turn \$50 worth of junk into \$1,500 repeater systems.

KA6UAI for dreaming ...and doing.

WB6FMT for the new autopatches.

Giant Computer: N6COU

Membership: KB6NMK

Field Day: K6HAV, W9FQN, K6SVX, N6KI

Traffic Nets: WB6HMY, N6RVO  
VE Testing: K6NS, N6INN/K6HAV, AA6OM

A special thanks to past president, Ed Ross, N6CZI, for finding me and putting me to work. Thanks to all of you who donated items to the club and kept a lookout for things that the club could use in its programs.

I am looking forward to helping the club wherever I can in the years ahead so it is not "goodbye" but rather "see you real soon" at meetings or working on some project.

73, Stan W9FQN



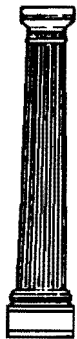
73 Stan W9FQN



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## No1 5A Field Day!

Patents

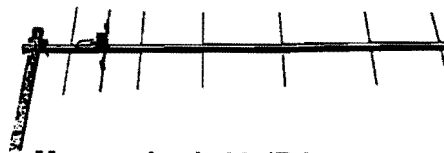
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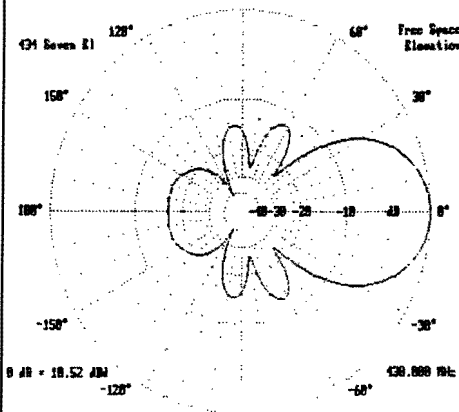
"Mac" - W9WV

LOYAL M. HANSON  
Registered U.S. Patent Attorney  
Fallbrook 723-0620

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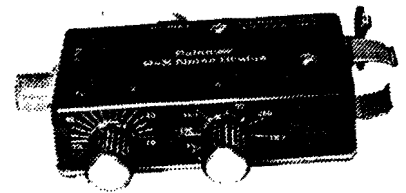


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## RECOGNITION

Larry-KO6PEN, Art-KO6UQH, and Mike-KO6KQ for the November club

technical program. Their very interesting program was greatly

**THANKS**

appreciated ..especially by the 33 amateurs whose rigs were checked out using equipment costing many thousands of dollars. Their handouts were very informative. Possibly this can be done again sometime for those who missed this great opportunity to see if your rig can live up to some of its specifications.

- BK -

John Barcroft-WA6ZJC for all of his work in designing the new audio board for the 147.13 KA6UAI repeater. John has done a lot of the technical work on Erik's repeater during the past several years.

- BK -

Ralph-K6HAV and Pat-N6INN for the donation of their post office box number (A BIG 73) so that our address is now PARC, P.O.Box 73, Vista, CA 92085-0073. Ralph and Pat have had the box for years and recently decided that they would be moving to Salt Lake City via an 18 month church tour of duty in Tokyo, Japan. We wish them good luck on their mission in Japan. They will still be receiving their mail through their Salt Lake City address.

This will make three club members in the Tokyo area.

- BK -

To volunteers Mike Koester-KA9VKD (help on the tower), Ralph Powell-K6SWAN (help on the SCOPE), and Harry Nickerson-N6EDK for future electronic projects. To operate a club of 450 members it takes many helpers doing many little things to keep everything running smoothly.

- BK -

(11-2) John-WB6IQS for helping Stan-W9FQN with the selling of \$93.25 worth of books and assorted items at the Santee Swap Meet and one club membership.

- BK -

Gerry-KC6BJM for solving in one week the problem of our Pacific Bell telephone autopatch "name" which pops on on the 911 screens that W9FQN has been working on for

months. Gerry is Deputy Chief R.A.C.E.S. Radio Officer for the San Diego Co. RACES group who now have approximately 350 members. If you are interested in joining RACES, please contact Gerry at 755-5244. You might try giving him a call on the autopatch. Gerry is on the Mira Mesa autopatch connection.

The emergency screen will say:

Line 1. Ham Station Relay  
Line 2. address of autopatch

This should alert 911 operators that the station they are talking to is an amateur radio station relaying information. We hope that "Ham Station Relay" sinks in immediately. If not, it should when they take a second look at line (1).

This should be of great help when a mobile is calling in an accident on 911 but you still need to remember to say in the beginning that you are an Amateur Radio mobile station reporting an accident (problem) at a specific location so that they will know how to route your call to the proper responding agency.

At least the communications operator won't see the name of a person pop up immediately on the screen to lead them astray.

- BK -

Jo-KB6NMK for more "cut and paste" for the SCOPE.

- BK -

Gary-KK6YB for the altitude-path study graphs (6 pages) for a proposed repeater site in the Vista area. These graphs will be brought to the next club meeting for Show-N-tell.

- BK -

Ralph-K6HAV for the donation of a climber's belt which will be kept at the repeater site for work being done on the tower. Ralph also donated quite a few antennas (2m, 220, & 450) to the club.

Ralph and Pat-N6INN have been selected to serve their church in Japan and will be located in Tokyo for the next 18 months. We wish them good luck in their mission work.

- BK -

Sherri-KC6RQW for volunteering to print up the newly designed (Jo-KB6NMK) PARC information/application folder. These should be available at the December club meeting for your inspection.

**NEWSLETTER HELPERS**

- November 1991 SCOPE -

Members, Ads, Labels, JoAshley . KB6NMK sorting, grouping Membership Data, Bill Whipple N6COU also roster and label printing Billing Ad, etc, John Tentor . W6OLQ Folding/Staples, Jack Hanthorn KI6JM also provided QTH & refreshments Folding . . . . Lloyd Hunt .. W6TFB Staples . . . . Eleanore Call N6QJE Folding . . . . Bill Whipple N6COU Printing/Forms, Stan Rohrer . W9FQN

Without these people life would certainly be difficult. THANKS!!

Printed 500 Mailed 468

**REPEATERS, etc.**

TECHNICAL: John Kuivinen.....WB6IQS

- - TRUSTEES - -

W6NWG/R: Ron Wilhelmy ...W16B->

146.730(-) and 449.425(-)

145.05(s)pkt W6NWG-1 or PALMAR

KA6UAI/R: Erik Thompson, 147.130(+)  
446.400(-) link to 147.13

WA6IPD/R: Art Rideout, 146.175(+)

WD6HFR/R: Ron Berger-N6ST, 224.900(-)  
(All CTCSS(PL) tones are 107.2Hz)

Erik-KA6UAI has pointed out several new items on the 147.13 repeater:

- 1) It takes the 147.13 repeater about a second to recognize the PL tone. Therefore, you must key up, WAIT a second, then speak. If you don't wait, UR FIRST WORD will be LOST. Quick answers of YES R not heard!
- 2) 147.13 is connected to a link that is on 446.4(107.2) in Kearny Mesa. You might try getting into 147.130 from this link sometime. This is a temporary testing location.
- 3) You will be able to access the new autopatch system thru 446.400 when it is connected to 147.13.

## WORK PARTIES

(11-10) Jerry-WB6FMT, Jerry's father, Paul-N6XUT and Stan-W9FQN spent the day at the repeater site and were joined by Mike-KO6KOQ and Jim-KO6PAS who dropped in to talk about the new repeater building ideas.

Jerry installed the new duplexer (filters) for the autopatch machine so that we could send and receive on the same antenna at the top of the tower. Some problems were experienced with the connections and will probably require further attention. Jerry then took out the board for the 146.73 and 449.425 autopatches and took it off the hill to clone the next board for the

147.13 repeater and for another repeater. The autopatch was closed down for about four days until the clone was completed. He was assisted by his father, Mike, and at the end, Stan.

Mike also has diagrams of the new 3,300 Ahr battery system and started work on the new jumpers needed to get everything working properly during emergencies.

Stan cleaned up the grounds, battery shed (battery acid levels still at the full mark), nailed down the corners of the new tin roof and sorted antenna and coax fittings. He also taped several fittings on the tower at the 55' level and replaced plastic element caps on the highest corner reflector so that

they would not fill with water, freeze, and burst.

- BK -

(11-13) WB6FMT and W9FQN spent several hours programming over 400 telephone prefixes into our giant computer which had a "instruction" error that we found. Stan took the board for the 146.73 repeater and put it back into operation on Palomar Mt. (removed on the 10th to clone a copy for the 147.13 repeater). He returned from the mountain by 11pm. Palomar Mt. is real cool later in the evening but the repeater blockhouse was about 78 degrees.

- BK -

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(11-16) Kerry-N6IZW, WB6FMT, & W9FQN installed the "lower third" autopatch in the morning after 2-3 hours of putting coax connectors on the 9913, and putting together antennas and installing them on the roof of Kerry's garage. Tests indicate that we are transmitting to the mountain better than we are receiving the mountain which is the same thing observed at WB6FMT's location. We suspect a problem at the repeater site on the transmitter side of the filters. We also

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measured 16 watts going into the filter and 22 watts COMING OUT!

The next stop was at Del-WW6Z's QTH where Del was building a shelf in his garage for the autopatch. Again, antennas and coax were assembled and when mounted against the roof, we decided our pole need additional guying which we did have with us. Since it was late, the project was shelved until the 23rd since the telephone line is not yet available.

- BK -



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, Interference Resolution Edward Ross



542-1405

**Antenna** N6GZI  
**Specialties**

(11-22) Stan-W9FQN and Glenn Maisey, Property Management Rep for SDC&E visited the repeater site for about an hour discussing SDC&E easements on and near the repeater site as well as the incoming road which is slowly moving onto PARC's property. Glenn will furnish us with a new lot diagram showing all easements on or near the property.

- BK -

(11-23) Del-WW6Z, Art-KO6UGH, and Stan-W9FQN installed the last of the three autopatches (middle 1/3rd)

serving almost every prefix in San Diego County. Connection to Del's extra phone line presented a problem at first when Art found that there were two other active phone lines in the garage which Del knew nothing about. The new mast was installed and guyed. Art attached the coax connectors after the lines were pulled thru the garage wall while Stan connected up the equipment.

Installation of the new system is almost complete except for connecting the 147.13 KA6UAI and 449.425 W6NWG repeaters in December and January. We would like to confine all autopatch activity to 146.73 until we see that most club members are using the system properly and are not experiencing any unexpected problems that we should be aware of.

Our repeaters in the PARC bunker on Palomar Mt. at 5,600' cover 2,000 sq.mi. of SD.Co. and 100+ miles out to sea. It is club policy that these repeaters are open repeaters FOR CLUB MEMBERS AND OCCASIONAL TRANSIENT USERS with the AUTO PATCHES being ONLY for club members. Be FRIENDLY to those that you talk to, and INVITE them to support the club with their membership since they are using the repeaters in the PARC bunker. You can check their membership in PARC by asking them if they have seen something in the most recent SCOPE.

## AUTO PATCHES

The Palomar Amateur Radio Club is operating a GENERAL COVERAGE autopatch system which covers about 98% of the San Diego population and can be accessed from about 2,000 sq miles of S.D. Co. and 100+ miles out to sea using 146.73 (operating), 147.13 (Dec 15th), 449.425(Jan 5th) and possibly one more frequency in the future. The 5th autopatch is in Fallbrook, 146.175 WA6IPD, which is a local patch covering Fallbrook, Bonsall, Valley Center, Vista, and Oceanside from the Fallbrook area.

The autopatches could cover but do not cover: Warner Hot Springs, Borego, Jacumba, and Julian.

These patches are intended for emergency road traffic and emergency situations existing within San Diego County. Until an emergency condition exists, members should feel free to use the patches for more mundane communications so that they will know how to use the patches when a real emergency does occur.

For the present, if you dial a number through a specific autopatch and cannot complete the call, you can assume 1)you chose the wrong patch for your dialed telephone number, 2)you are not using a PL of 107.2, 3)you dialed the wrong codes for the patch being used, 4)you have tones that are off frequency, 5)your big fingers hit 2-4 of the small tone pad keys at the same time or bounced off of the pad resulting in two digits rather than just one digit, 6)distorted or of improper levels, 7)you have a weak signal and drop in and out of the repeater resulting in missed digits, 8)you found a prefix which your friendly programmers forgot to program (1/1000), or 9)you asked for the patch when it is being used by another repeater.

At present, the patch system is on 146.73, 147.13 (Dec 15th), or 449.425 (Jan5). Check both 2m frequencies before initiating a call (also 449.425 if you have 450) and you will assure yourself that your call has a 100% chance of getting recognized by the system. If you can't monitor 450, your chances of not capturing the system are about 4 in 1000 attempts. If you don't monitor anything except the repeater you are on, the chances are about 1 in 200 calls of not capturing the system with a good signal. If you don't capture the system, the odds are that you probably have other problems.

Sometime next Spring we will consider installing a "patch busy signal" circuit which has already been designed. For about \$60 in small parts we think we can also reduce all codes to one code on all repeaters and your dialed telephone number would be automatically routed to the correct autopatch outlet ..but that will have to wait until we see how the present system is working.

If you bring the patch up for someone, make sure that you ASK THEM FIRST if they have a PL of 107.2 turned on or you will have to repeat everything that they say to the person you are talking to ..remember, the patch does not pass transmitted audio without constant PL.

Let us know of any problems that you might be having. We know the autopatches have been working properly - when used correctly.

## NOTE CHANGE in ACCESS

Please note the change in sequence in column one. Call 1st, then Rxy.

For the 146.73 & 147.13 autopatches:

```
"BK DT BK BK BK"
"N6QDB/M! dial !BK BK! to end
ACCESS !(749-0276)!BK BK! "N6QDB/M
PATCH" ! or ! talk! CLEAR
Rxy ! your ! back! PATCH"
(dial 3 ! number ! and ! then
tones) ! here ! forth!(1-tone)#
```

The " " in example above indicates ur "push-to-talk" pushed. The DT is waiting for the Dial Tone and BK is where you listen. The Rxy code is:

R=No. after decimal pt.of repeater that you are using:

146.(7)30 = 7xy 147.(1)30 = 1xy

The "xy" is from your personalized address label on the SCOPE ea month.

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USE A 107.2 PL FOR ALL AUTOPATCHES!

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Do not discuss autopatch codes or



autopatch PL codes EVEN TO MEMBERS OVER THE AIR. Use your home phone for such discussions.

If you have an auto-dialer that does not allow spaces, it can't be used for sending codes + numbers on our patch system. Auto-dialers are too fast for the system since we need to have time to activate the patches in San Diego after you enter the system with the entry code. You can dial Rxy by hand (finger?) and then dump your number from the auto-dialer automatically. For example: 1)Rxy (by hand), space of 1-2 seconds (listen for the dial tone), (auto-dial) 7490276 or 2)Auto-dial Rxy (space) (space) (space) 7490276. We need about 1-2 seconds to activate the autopatches once they have been signaled to start listening to your dialed number. NO SPACE for the dial tone ... NO WORKIE. If the entire system was located on Palomar Mountain (a bad place to be), we would not need the extra time (spaces) to send the sequence Rxy7490276 vs Rxy...7490276.

If you use your transceiver on other autopatches, it is probably wise to just program the telephone number into your auto-dialer memory and dump the number after you dial in the proper access code by hand.

Because of limits in our programming of memories, prefixes are generally in upper third, middle third, and lower third, but there are some intrusions that exist in the lower and middle sections since we were forced to program a whole block (ie 560-569) as one number (56\* \*\*\*\*, \*=wild card) to save memory space. This block of 10 numbers is actually split between the middle and lower groups and if we had ample memory available, they would have been properly split between the middle and lower sections. The 10 number block ended up being programmed into the lower group to save memory. If you do not

copy the programming below of the three areas, you will have to try your first guess at which third it is in and if you are not correct and get a disconnect (dial tone), then you will have to try the adjacent area. This problem does not exist between the upper and middle sections since our memory in the upper section is larger and there are not as many prefixes.

If you don't carry the below chart with you, then your "first time" call to the border of the middle and lower sections has a 50% chance of getting thru the first time you dial. If you get a reject dial tone, then you know it is the other section. Send a "#" and dial the adjacent section.

We think that the following prefixes have been programmed into each autopatch:

VISTA-Rxy, (WB6FMT), upper 1/3 SDCo  
414/430-4/436/438-9/471/480/489/504/  
510/512-3/516/519/591/598/599/603/  
630-4/720-9/731/737-9/740-1/743-7/  
749/751-4/756-9/763/853/929/931/  
940-5/966/967/911/also 742/788/789

MIRA MESA-Rxy, (WV6Z), middle 1/3 SDCo  
250-9/270-9/280-9/400-9/417/419/  
450-9/481/483-8/514/518/500/502/  
505-8/530-9/540-9/550-9/581/586/587/  
592/597/604/672-4/679/685-9/693/695/  
701-2/710-9/748/755/792-3/844/965/  
968/969/970-9/ 911

LA MESA-Rxy, (N6IZW), lower 1/3 SDCo  
220-9/230-9/260-9/290-9/330-9/420-9/  
435/437/440-9/460-9/470/472/474-7/  
479/491-8/520-9/560-9/570-9/580/  
582-5/588-9/593-6/650-9/660-9/670/  
690-4/696-9/884/923/926/980-9/990-9/  
(as of 11-23-91) 911

##### PHONE NUMBERS #####

Keep a copy of this listing in your car or emergency box.

--- VISTA PATCH ---  
AAA Road Service Vista . . 758-5570  
AAA Road Service Encinitas 753-8917  
Border Patrol, Oceanside . 430-7029

CA Highway Patrol Ocsd. . . 757-1675  
Coast Guard, Oceanside . . 722-3838  
Fire, Escondido . . . . . 741-4622  
Fire, Poway . . . . . 489-0170  
Fire, R.Ber,R.Pen,San Pasq 489-0170  
Fire, San Marcos . . . . . 744-1234  
Fire, Vista . . . . . 726-2142  
Paramedics, Escondido . . . 741-4622  
Pendleton, Duty Officer . . 725-5393  
Police, Carlsbad . . . . . 931-8500  
Police, Escondido . . . . . 741-4611  
Fire, Oceanside . . . . . 433-9111  
Police, Oceanside . . . . . 433-9111  
Sheriff, Encinitas . . . . . 966-3500  
Sheriff, Fallbrook . . . . . 723-6050  
Sheriff, Poway . . . . . 738-2532  
Sheriff, Ramona . . . . . 789-9157  
Sheriff, Valley Center . . 749-1303  
Sheriff, Vista . . . . . 940-4551

--- MIRA MESA PATCH ---

AAA Road Service . . . . . 672-3131  
Ambulance, . . . . . -  
CA Highway Patrol . . . . . -  
FAA . . . . . 557-6545  
Fire, Del Mar . . . . . 481-1212  
Fire, . . . . . -  
Marine Safety . . . . . 755-1177  
Miramar Naval Air Station . 695-7200  
Police, . . . . . 531-2000

--- LA MESA PATCH ---

AAA Road Service . . . . . -  
Ambulance, El Cajon . . . . 442-5595  
Calif. Highway Patrol . . . . 440-4303  
Fire, El Cajon . . . . . 442-5595  
Fire, La Mesa . . . . . 444-0195  
Fire, Lemon Grove . . . . . 469-4113  
Fire, San Diego . . . . . 238-1212  
Fire, Santee . . . . . 448-3646  
Police, La Mesa . . . . . 461-1222  
Police, El Cajon . . . . . 579-3311  
Sheriff, Alpine . . . . . 579-4136  
Sheriff, Lemon Grove,Santee 565-5200

Emergency numbers needed  
RACES . . . . . -  
ARES . . . . . -  
? . . . . . -

Those of you who live in each of these autopatch sections should be able to give us the phone numbers of emergency locations. Please send additions and corrections to W9FQN.

If your prefix is not listed, please contact us immediately so that our giant computer(s) can be updated. We have listed over 400 prefixes and there could be so errors in our programming. We have not.

For the present you will have look up the prefix (above) before you dial your number so you will know which autopatch outlet to use but next Spring we have the possibility of making your selection of autopatch areas more automatic. More about that later. In time emergencies we believe that the autopatch areas are better than since trunk lines can be preventing some areas communicating with other areas. At least we will have three entrances into the telephone system in San Diego County even if these areas cannot "talk" with each other by normal phone connections during emergencies.

If someone is using the patch on one of our repeaters, don't break-in to ask to use the patch. Go to another of our repeaters that are not being used. How about that? Nine autopatches at your service (3 repeaters X 3 outlets) plus the Fallbrook autopatch WA6IPD on 146.175.

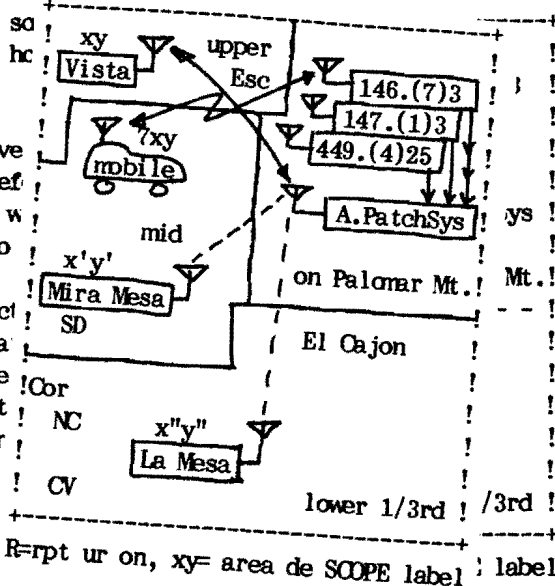
October -> November

Area	Calls	Day	Eve	Nht	Min	Ave
VISTA	108	46	21	41	134	1ml4s
M.MESA	-	-	new	-	-	m s
L.MESA	-	-	new	-	-	m s
Totals	108	46	21	41	134	1ml4s

Abt 30 calls were tests of patches.

PARC would like to remind you that your use of the autopatches is monitored by control operators, your fellow amateurs, and possibly the FCC. We record all phone numbers dialed (we know who you are calling) and we have tapes of what you are saying ...enough said! YOU ARE BEING TAPED! One young lady who was frustrated in trying to operate the

patch codes gave up in disgust and we have recorded for posterity her immortal words of "Oh S..."



The above picture shows a mobile in contact with the 146.(7)3 repeater wanting to call a phone number in Vista. The mobile broadcasts its touch tone signal code (Rxy) plus a PL of 107.2Hz to the 146.(7)3 repeater telling the Autopatch System on Palomar Mt. that the call is on the 146.(7)3 repeater (R=7) and that it wants a connection through the Vista patch (xy). "R" is the first digit after the decimal point on the repeater frequency being used and xy is on your address label under "Vista", "Mira Mesa", or "La Mesa." You must send three tones on your TT pad. The first tone is for the repeater that you are on and the next two activate the proper autopatch connection in San Diego County. When you finish the patch you send a "#" to turn everything off. If you make a mess of entering the system or with the phone number, it would be wise to send a "#", wait 5 seconds, and start all over to make sure all numbers are "cleared" from the system. Your signal might be weak and we received only 4-6 digits of the required 7 digits for the dialed phone number. Your sending the phone number all over again without

a reset will probably result in the giant computer thinking that the first of your repeated 7-digit phone number are the missing digit(s) of the last dialed phone number. Confusing? Just imagine what the dumb computer is thinking about what you are doing!

The Rxy is received by the 146.(7)3 repeater and the "7" tells the Autopatch System that it should stop listening to the 147.(1)3 and 449.(4)25 repeaters and that it should devote its full attention to you on the 146.(7)3 repeater for the next couple of minutes. If you were on the 147.(1)3 repeater, you would dial 1xy to get into Vista and on the 449.(4)25 repeater, 4xy to get into Vista.

The xy code for Vista (see your label) is re-transmitted from Palomar Mountain via the Autopatch System and received by all three autopatches on the floor of San Diego County putting the Mira Mesa and the La Mesa patches to sleep and activating the Vista Patch allowing you to finish dialing your telephone number. You should be able to "speed dial" the telephone number but not the 3-digit code plus the phone number.

#####  
## - FORSAIL - ##  
#####

Deadline FORSAIL items is the 15th of the month addressed to the editor at his home address: 30311 Circle R Ln, V.C., CA 92082-9423 or call 749-0276. Late items will appear the following month.

If you have an item for sale, bring it to the SALE TABLE at the club meetings, tagged with name, call and minimum price, if any. The Club takes 10% and you go home with \$\$\$. PARC takes NO % on the ads below and they ARE FREE TO CLUB MEMBERS. The month of first being run is indicated by date at the beginning of the ad. PLEASE tell us

when the item(s) are sold.

(11-21)Yaesu FT-7 HF xcvr 10-80m 20w \$175; Astron RS-12A 12v pwr supply \$35; Yaesu FRG-7 gen cov rcvr \$200; Duane-AA6EE-789-3674-Ramona.

- BK -

(10-14)New prices - B&W coax sw

mod594 \$20; Hustler glass mast 54" \$20; bumper mt w/ball spring \$30; Ten-Tec Mobile ant mod 3101 15m \$20 and 20m \$20; Kenpro EL.Rotor KR-500 hvyduty 180deg for satellite \$150; 2m docking booster WP-230 DX 3-5w in 35w out \$40; Ten-Tec 2510 sat. xcvr

B-Mode SSB-CW \$200; Yaesu FT726R 2m xcvr \$500; Yaesu's 6m \$150, 430 \$175, SU-726 \$75; 6m solid state amp R.F.Labs V76 \$200; Ametron amp AL84 10-160m 400w \$350; R.F.Krist-W6KTE-941-3555-Vista.



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#####  
SAVE on 1992 CALL BOOKS

North American (retail \$30) \$24.95  
International (retail \$30) \$24.95  
Both for only \$48.95

SAVE on ARRL BOOKS

New Antenna Book (700 p.) \$17.95  
1992 Handbook (retail \$25) \$22.00

Add 7.5% tax. All prices postpaid.

Duane Heise, AA6EE  
16832 Whirlwind Lane

Ramona, CA 92065 Ph 789-3674

#####

(11-7)Various lengths of low loss  
hardline (2m-.85db, 450-1.48db)

\$1/ft and attached connectors \$10ea:  
Larry-W6GV-726-0353-Vista.

- BK -

(11-7)YAESU FRG-7 gen cov rcvr gud  
cond \$195; new Belden RG-8 coax 100'  
\$15 or \$28 for 200'; new Tempo-I DC  
pwr supply \$20; Duane-AA6EE-789-  
3674-Ramona.

THANKS Duane for writing out your  
add so well with ur name, call,  
phone, and city. It makes it a lot  
easier for me to type.

- BK -

(10-26)Several(many) transformers in  
original boxes (old timers probably  
with PCB's), 100 pound, a)230vP no  
taps, out 2100, 2625, and 3150vac @  
.5A6, b)110 or 220vP, out 4,800,  
5760v @ .5A CT HV transformers for

that 2,000+ watt amplifier you  
always wanted to build, or give as a  
present to that DX friend who needs  
a super amplifier, night crawler  
stimulator, do it yourself electric  
chair, or for a charged electric  
fence for complete privacy around  
the home, \$10 each for one of the  
biggest charges you could ever get  
(once in a life time offer): PARC-  
Hillside-Electronics-W9FQN-749-0276-  
VillyCtr.

- BK -

(10-24)Kenwood TH-25AT 2m HT w/2 PB-  
6 batteries \$225; Dennis-NGKI-271-  
6079-Mira Mesa.

- BK -

(10-22)1200 baud IBM internal modum  
card \$20; 2-EGA enhanced cards

**WANTED**

\$25/ea: John-WB6IQS-724-8380-Vista.

- BK -

(10-21)Mint 2ea stackable 43MHz beams with power divider, for ATV \$75; Heath special antenna for WWV World's Most Accurate Clock \$25: Don-AA6WS-291-5229-SD.

- BK -

(9-25)8' parabolic aluminum dish + mount \$50: Gary-KK6YB-480-2917-Escondido.

- BK -

(9-3)Heathkit HW101 xcvr w/pwr, Versa Deluxe Tuner, key, & headphones. Great rig for beginner \$200: John-670-4078-Spring Valley.

- BK -

(8-28)Bamboo poles from small to 4"dia (great for the really big fish); solid Fiberglass poles 8' good for masts: Larry-WQ6V-726-0353-Vista.

- BK -

(8-23)Yaesu FNB-10 battery \$10; Yaesu FTT-4 TIPad for FT-23/73 \$10: Jerry-WB6FMT-758-4388-Vista.

- BK -

Tubes for sale ..all kinds ..all sizes ..part of PARC tube yard: Larry for PARC-KC6PEN-439-4109-Ocsd.

#### OTHER PARC ITEMS

MB3 Ham Interface software with manual; PK-64 Packet; Kenwood TM-TS-700(SP) service manual \$2; tri-band beams; headphones (assorted); Vic 20 computer w/monitor, recorder & programs; Heath Daisy wheel printer (needs adjustment); and assorted goodies: PARC-Hillside-Electronics-W9FQN-749-0276-VillyCtr.

- BK -

(8-14)12v gel cell batteries (YUASA) guaranteed like new (great for emergency use with HT or public service events) \$5/ea: Mike-KC6KQ-742-1573-Palmar Mt.

- BK -

(7-4)700' RG-8 52 ohm coax 30c/ft: Jim-KA6OLZ-434-2722-Carlsbad.

- BK -

(5-4)50' Rohn Tower 56H (non-tubular): (Past PARC Pres) Ed-N6GZI-297-7758-S.D.



OPERATORS for the 41st Annual Holiday Parade sponsored by JAYCEES of Escondido. Need 24 operators Saturday, December 14th, from 7:30 until noon. Dutch breakfast at 0630. Call Harry-WA6YOO at 743-4212, Escondido, or call him on the autopatch for details.

- BK -

(11-15)ICOMs IC-735HF, IC-271H VHF, SP-20 speaker: Len-KB6MNH-464-5223-Spring Valley.

- BK -

(11-7)Need engineering calcs for Tristo CZ-454-FS 3-sect 54' crank-up tower for building permit: Duane-AA6EE-789-3674-Ramona.

#####  
## F I E L D D A Y 1 9 9 1 ##  
#####  
de Dennis - N 6 K I

For Palomar Amateur Radio Club, W6 Nothing Working Good, this was to be "THE MOTHER OF ALL FIELD DAYS". PARC was amed for bear with the best ops, equipment and antennas. Two hours before setup, Murphy went into overtime. KB6NMKs Novice/Tech ops were informed that their operating van was no longer available and our FD chairman called in sick. Soon after getting most stations setup, two antenna baluns decided to belly-up. At contest time the Novice/Tech station was still in major disarray and KB6MUs satellite station had a dead short in its antenna system. A careful watch was put on the Club mascot dog "Chula" (AKA Murphy) who had recently chewed through the coax of jPARCs 80 Mtr delta loop. The Novice/Tech station never mounted much of an attack on 10 SSB due to antenna problems and extremely poor band condx, but N6YMDs 40 Mtr cw contacts saved the day for them. Terry N6UZH asked Karl N6WLX "do you hate ne now?" after she blew-up the memory on his station computer. QRN from flower growing lights or water pumps knocked the 20 Mtr SSB station off the air for 3 hours in the early a.m. hours. On Sunday a.m. W9FQNs

Natural Power station was QRT with Solar charged batteries deader than a door nail. Despite poor daytime condx on 80, 15 and 10 Mtrs, K6XTs cw crew knocked off 400 more QSLs than FD 90 and N6KIs voice ops kept up a record pace yielding an all time record performance of 4400+ QSOs for Palomar ARC. PARC FD crew numbered 61, compared to 36 in 1990.

The only two more stations that made more "raw" contacts than we did were NINH who ran 13A (5,325) and W2GD in 4A. Now 5325 is great but not for a station running 13A so it appears that W2GD did one heck of a job, especially running one less station than us. So overall, when we dump all the "gimmick" categories, we were really #2 in the nation by my count.

The November QST told us what we already knew. WE WERE NO.1 in the USA for the 5A FIELD DAY competition out of seventy-four 5A stations. Congratulations to all the club members who participated in the club's annual Field Day this past summer. In 5A classification we were No.1 in the USA, No.1 in California, and No.1 in San Diego County. In all classes thrown together we were No.6 USA (1,865 FD stations), No.2 California, and No.1 San Diego County. Last year we were 2nd in 5A and 14th in all classes in the USA.

We (W6NWG/KB6NMK) scored 13,654 points and the group that beat us last year in 5A, Huntsville ARC (K4BFT), scored 13,202 points. The national 5A leaders were:

Palomar ARC	W6NWG	13,654
Huntsville ARC	K4BFT	13,202
United RAC	K6AA	9,962
Livingston ARK	KW8G	9,268
S.Pickering ARC	VE3SPC	8,802

What was really surprising was our overall showing in all classes:

Call-----Score-----Class-----

1	AD6T	23,500	22A Battery
2	W2GD	15,954	4A

3 NINH 15,906 13A  
 4 WA3N 15,250 3A Battery  
 5 K7TR 14,022 4A  
 6\*\* W6NAG \*\* 13,654 5A \*\*\*\*\*  
 7 K4BFT 13,202 5A  
 8 KONA 13,180 2A Battery  
 9 K8BL 12,904 8A  
 10 W4IY 12,880 11A

de Dennis N 6 K I

Dennis-N6KI said last year that we were going to be No.1 in our class this year and he saw to it that we were No.1. THANKS TO DENNIS and his hard working crew for an excellent job well done. It was a lot of fun and a lot of work ...but well worth all of it. (I have been on Field Days since 1956 and I have never seen so many amateurs and so much amateur equipment in one place at one time: transceivers, beams, loops, trailers, and 50 foot emergency towers ...and with so many dedicated amateurs that knew what to do with it - W9FQN).

The important thing to remember is that EVERYONE was IMPORTANT this past Field Day. We won only by 452 points. Its true our big guns were important but without our Novice or satellite stations we would not have made 1st place. THANKS TO EVERYONE WHO HELPED IN ANY WAY.

Every year, Ralph-K6HAV, former Field Day chairman and SCOPE editor, would end his Field Day comments with "WAIT TILL NEXT YEAR" and "next year" came this year! Each year gave us another year's experience and training.

- BK -

Dennis indicates that 40 participants and guests attended the Field Day pizza bash and he was forced to eat one slice that was left on the table so that he would not blow away before the next Field Day.

## PARC VE TESTING

FCC LICENSE EXAMS in N.County are conducted by the PARC VE Team at the Carlsbad Safety Center in Carlsbad

(Camino Real -> Faraday, 14F6, follow CSC signs) on the 2nd Sat. of the month at 1000 Hrs. Walk-ins are not encouraged. FCC 610 forms are available from Jo-KB6NMK at PARC meetings or from the FCC office in Kearny Mesa, 4542 Ruffner, 467-0549.

**REPEAT! VE EXAMS FROM NOW ON WILL BE AT CARLSBAD SAFETY CENTER!**

Other SANDARC-VEC exams: 1st Sat.El Cajon, 3rd Normal Heights, 4th Chula Vista, & last Escondido ARS at Blind Center, 157 E.Villy Parkway.

Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTO-COPIES) and copies of license(s) and certificate(s) of successful completion, if any, to SANDARC-VEC. PO Box 2446, La Mesa, CA 91943 10 days B4 the test date. Bring ORIGINALS of licenses & certificates. Questions: call SANDARC 465-EXAM.

NONE->NOVICE: Robert Smith & Karen Wilhoute.

NONE->TECH: Elizabeth Childers, Todd L. Hollman, Barbara Doyle, & David Tennant.

TECH->GENERAL: Tammie Fillippo-N6XXT.

ADVANCED->EXTRA: Michael Doyle Sr-K6KQJ.

CERTIFICATES ONLY: James McIntosh-1B.

VE TEAM: Duane Stedman-WB6R, Sam Burdette-W6YV, Jack Hanthorn-K16JM, Rusty Massie-AA6OM, Steve Grant-N6RUV, Jack Newlove-AA6UQ, and Bob Chantrill-KE6VX.

de A A 6 O M, Rusty Masse  
 747-5872, 1249 Nordahl Rd, Esc92026

THESE HAMS ARE DOING A GREAT JOB WITH THE VE PROGRAM AND DESERVE THE THANKS OF ALL CLUB MEMBERS! If you can help in any way, please contact Rusty.

## NETS

Members of the San Diego County Traffic Net (SDCT) should remember that that club's autopatch system covers 99% of San Diego County from

Fallbrook to Mexico and inland to the mountains so it is possible to DELIVER ALL TRAFFIC addressed to our area through the new autopatch system if no one volunteers for the traffic.

## 146.73 WEEKLY EVENTS

NIGHTLY 2000 S.Diego Co Traffic Net (except 1st Wed club meeting)

Net managers:::N6RVO/N6TJT  
 Mo-N6WVP,Tu-N6RVO,We-WA1ZEN,  
 Th-W6EYP,F-N6TJT,Sa-N6NZX,  
 Su-N6TEP

MON 2100 Microwave Net:::N6IZW  
 TUE 2100 Pkt.Voice Net:::KB5MU  
 WED 2100 Code:::W9FQN, N6NZX  
 THU 2100 Ham Help Net:::K6GPN  
 KK6IL, N6YMD, K6GQH  
 SUN 0830 PARC EmergServ:::W9FQN  
 KB6NMK, W6HCD,N6NZX,KB6NZ,  
 W6HFE,N6QQF,W6UTQ, N6QJE,  
 N6UIA, W6JSP, N6WEG, N6WEF  
 SUN 1000 Sailing:::W6QCA, AA6TR  
 SUN 2100 ARES Planning:::W0DLW  
 K6CZO, K7DOG

## 147.13 WEEKLY EVENTS

SAT 1930 YoungPeople Net:::>>  
 Chris-K6QOJ & David-K6VMR  
 NIGHTLY 2230 King Henry FacetiousGp

## OTHER NETS

MON 1930 RACES Net on 147.195  
 THU 2000 Young People'sNt 28.39  
 Chris-K6QOJ & David-K6VMR  
 NIGHTLY 1:30Z Maritime Net 28.313  
 (So.Cal.)::::Mark-AA6TR  
 Please send corrections/additions to the editor.

## GENERAL NEWS

SANDARC (San Diego County Amateur Radio Council) is looking for someone to be head of the 1994 South West ARRL Division Convention to be held in San Diego. SANDARC intends to define all of the committees and staff as many positions as possible so being chairman should be more of an administrative position checking to see that everyone is on schedule. If you are retired and interested in the position, please contact Stan-W9FQN for more information. The

next SANDARC meeting will be January 30th. The club is looking for representatives to attend the SANDARC monthly meetings at 7:30pm in the Kearney Mesa Rec Center.

#####  
< ARRL SECTION MANAGER'S REPORT >  
de Art Smith, W6INI

- It's time to smell the Roses -

When I retired after a 30-year career in the USMC, 27 years ago, I picked up where I left off with Amateur Radio many years before. My involvement with Amateur Radio stood me well in the field of communications-electronics during my Marine Corps service. As a Private, I was put in charge of the Amateur Radio Station in Quantico VA. A benefit of this assignment was that I had a room to myself. This was unheard of for a lowly Private. Running the station was not my primary duty - I was an instructor in the radio school.

At the end of World War II, I was in command of a Radio Intelligence unit attached to the Marine V Corps which occupied Sasebo, Japan. Since the war was over Amateur Radio operators fired up military equipment to resume their hobby which was left behind when the war started. This did not go over well with the high command (Douglas MacArthur's Eight Army) and orders were sent out for the hams to cease operation. Getting hams off the air became one of my radio intelligence missions since we had direction finding capability.

After USMC retirement, I devoted much of my leisure time to Amateur Radio. I have held positions of leadership and responsibility in Amateur Radio, perhaps a natural thing after a military career. My activity with the American Radio Relay League (ARRL) and the Amateur Radio Emergency Service (ARES) then began. I joined the ARRL field family in 1968 when Section Communications Manager Dick Leffler, W6COE, appointed me to the position of Asst.SCM. Since then I have held

positions as Emergency Coordinator, Section Emergency Coordinator, as well as my present position, Section Manager for San Diego and Imperial Counties. The late Southwestern Division Director, John Griggs, W6KW, honored me with an appointment as Assistant Director. When the ARRL Board of directors created the Emergency Communications Advisory Committee (ECAD), I was a charter member, appointed by ARRL Board of Directors and the Headquarters staff. I served on it for six years, the last year of which I was chairman.

My current term as SM is up on March 31, 1992 and, after 18 years, I will retire from the ARRL Field Organization at that time. SM is an elected position and candidates must meet certain requirements and file a petition with ARRL Headquarters by December 6, 1991. Anyone who is interested can find details on page 65 of the October 1991 QST. I will be glad to answer any questions a prospective candidate might have and assist him or her. Contact me in person or by phone at 273-1120.

#### Help Wanted

The position of Section Emergency Coordinator (ARES) will become vacant on Dec 31, 1991. In emergencies, the SEC coordinates activities which involve two or more districts. The amount of time required is variable and mainly up to the individual holding this position. Anyone who is interested should contact me at the earliest opportunity. Phone 273-1120 or see me at Normal Heights Methodist Church meeting, second Saturday of each month.

#####  
## C A M E O Guys and Gals ##  
## de Stan W9FQN #3 ##  
#####

Featured this month is a long time member (recently renewed for 10 more years) and supporter of PARC, Felix Ferranto-N6IE (great CW call), ex W2H DU, W2CZ, W2OYT, W6NDH,

XU2FL, KC4USL, K6NDH, & K6ZB. Felix was born in Brooklyn in 1911 and enlisted in the US Marine Corps in '33 at Parris Island ...serve Guam '35 ..American Legation Guard in Peiping China '36 ..U.S. Antarctic Service 39-'41 under Admiral Byrd and received a Gold Medal for his service ..combat in Guadalcanal ..1st Marine Div. in Korea as a Radio Relay Platoon Commander, shot and captured ..received Bronze Star, 2 Commendation medals, 4-Purple Hearts, 3-Good Conduct, China Service, American Defense, American Campaign, Prisoner of War Medal, and on and on (plus 11 more).

Felix, until the last several years, used to carry the brunt of the CW operation for PARC on Field Day. One FD he rolled off the cliff behind the 10,000,000gal tank and broke his right hand but returned later in the afternoon, after being sent home to bed by the base doctor, only to operate the CW station the rest of the 24 hours of Field Day sending code with his left hand! He used to operate CW from his car, a key strapped on his leg ..a little like Mark-AA6TR has been known to do from time to time.

He was one of the first American Marines captured by the Chinese Communists when they shot him in the leg and blew up the jeep he was driving. He spent time with them in Korea and also Manchuria but he was such an "ornery critter" that they turned him over to the North Koreans where he was near death on many occasions. He spent most of his time with the North Koreans in solitary confinement for being a good Marine.

Felix was one of the last Americans to be released at Panmunjom in September of 1953. At the urging of many of us, he has finally written and published a book about his experiences, TOUR OF DUTY, which tells all about his Capture, being shot, and tricking his captors into providing him with a r which he turned one part into a row

power transmitter. It really is an unbelievable story and after 38 years Felix looks younger today than he did when he was released at Freedom Village, Pamunjun, North Korea.

Felix WAS and IS a MARINE in ATTITUDE and we thank him for everything that he has done for us and we are looking for him to renew for another 10 years in 2001!

#####  
#### - YOUNG HAMS - ####  
#####

Ron-KO6YIA has started a school amateur radio club at Roades School in Carlsbad and is looking for a general coverage receiver (loan or gift) which the students can use for monitoring the ham and short wave bands. He is also looking for a transceiver something like a Kenwood 820 with digital readout. Ron could also use some help in teaching the code and/or demonstrating amateur radio. Give Ron a call at 758-1134.

PARC has loaned the school club some items: amateur radio books, code oscillator and key, 80-10m vertical antenna, and a 2m Ringo Ranger.

- BK -

Phil-WF6L's Potter Junior HS station in Fallbrook was closed down when Phil changed schools and he now has another club station going at his new school in Fallbrook. If you are in the Fallbrook area and can help Phil's group in any way, give Phil a call at 757-7008. Art-WA6IPD has been helping Phil with his club program.

- BK -

The young ham net meets each Saturday evening at 7:30pm on 147.130 (KA6UAI). Third part checks-ins for youngsters who might be interested in amateur radio are encouraged. Chris-KO6QOJ and Dave-KO6VMR are net controls.

Part 97.79 of the FCC rules talks about control operators. The FCC RULE BOOK published by the ARRL in essence says: "Any person, amateur or non-amateur, may participate in Amateur Radio Communications as a third party" but all transmissions must be set up and controlled by a properly licensed amateur for the frequencies being used. While it is okay for the third party to press the PTT switch on the mike and identify, the control op should make all the operating adjustments to the transmitter and be in the immediate area (room) to properly supervise the 3rd party communications. See WORLD RADIO, Sept. '91 for additional information.

This is somewhat similar to a third party vox phone patch and where in Field Day a Novice operates in the Advanced SSB band on 20m ..all supervised and controlled by an Advanced class amateur who makes all adjustments to the transmitter and the Novice only does the operating.

The Amateur Radio Relay League (ARRL) has put together a school affiliation kit: sample constitution, general information, subscription to ARRL Field Form, access to ARRL videotape library, etc, and a free HANDBOOK. If you know of anyone or any school group who is interested, please contact W9FQX.

#### DISCLAIMERS

Meetings at LINCOLN MIDDLE SCHOOL are NOT a function of the Vista Unified School Dist. & are NOT sanctioned by the school Dist. Board of Trustees. See!

Unless specifically stated to be club policy, opinions and statements set forth herein do not necessarily represent club policy even though the president is the Editor. If you read this, please let me know about it. Nor do they necessarily represent the opinions of the authors on other occasions or under different circumstances. The Editor

further disclaims any knowledge of anything - real or imaginary. Verily.

You can copy anything out of the SCOPE you want as long as you give credit to THE PALOMAR AMATEUR RADIO CLUB, Inc., and author(s).

#####  
**POTPOURRI**  
#####

HAM STAMP PINS: Replica of ham postage stamp, \$5. Contact an officer at the next meeting.

- BK -

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.

- BK -

JOIN THE ARRL: When joining or rejoining the ARRL, do it via the Club which will receive a modest stipend otherwise going to the ARRL. Make your check payable to the Club and get it, with your membership application, to our Treasurer, Benton-KK6LX. NEW ARRL membership applications which include the PARC number (#1703), garner the Club \$5 - and it doesn't cost you a fat farthing more!

- BK -

SK	Silent Key	SK
+	##### SK #####	+
#	- K B 6 A I -	#
#		#
#	Guy Rowlett passed away November	#
#	22nd in Anaheim, CA. Guy was	#
#	active in our Traffic Nets and	#
#	was a repeater control operator	#
#	for many years. He will be	#
#	missed by all of us who knew him.	#
+	##### SK #####	+

Cards can be sent to the family at 3233 West Lincoln #125, Anaheim, California 92801.



# Palomar Amateur Radio Club Enlistment / Re-enlistment Application

AMATEUR CALL	CLASS OF LICENCE N T T+ G A E	
ARRL MEMBER Yes No	DATE FIRST LICENCED	
LAST NAME	OLD CALLS	
FIRST NAME	DATE OF BIRTH	
STREET ADDRESS	RACES Yes No	
	ARES Yes No	
CITY & STATE	RED FLAG Yes No	
ZIP CODE	BLOOD DONOR	BLOOD TYPE
HOME PHONE #	WORK OR OTHER PHONE #	
THOS. BROS. MAP LOCATION	INTERESTS	
LICENCE EXPIRES	PARC FAMILY MEMBERS	

Mail this form with your check to PARC, P.O. Box 73, Vista, Ca 92085-0073 or hand to Jo, KB6NMK at club meetings. Prefer checks to cash, it's safer and you have a record.

Dues (including Scope) are \$12 a year plus \$9 for each additional family member at the same address.

Dues are prorated for NEW members: Aug, Sept, Oct, \$12; Nov \$9, Dec \$8, Jan \$7, Feb \$6, Mar \$5, April \$4, May \$3, June \$2, July \$1. Family members 75% of full price. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Call, name and complete address are required. Telephone number is requested but may be unlisted in roster if preferred. Other information may be omitted if you feel uncomfortable providing it to the club.

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

..... dotted line .....

#####  
# SCOPE, USPS 076530, published monthly by #  
# the PALOMAR AMATEUR RADIO CLUB, INC #  
# Post Office Box 73, Vista CA 92085-0073 #  
# Dues \$12/year. WOW!! #  
# ----- #  
# POSTMASTER: Send changes to -> SCOPE, #  
# P. O. Box 73, Vista, CA. 92085-0073 #  
#####

*Holiday Greetings*

\*\*\*\*\*  
\* 2nd Class \*  
\* Postage \*  
\* paid at \*  
\* V I S T A \*  
\* CA. 92085 \*  
\*\*\*\*\*

NOTE NEW BOX NUMBER AND ZIP CODE  
  
SEE ABOVE 73!

	Expires	Expiration
+xxx-Vis--MirM--LaM---Fal---PRCyym--LXyrr-xxxx+		
Phone codes-->		X
X		X
X		X
DELIVER X		X
T O: X		X
X		X
+-----Membership---License-----+		
Ur last issue if (PRC9111)		

All 146.73 autopatches operational as of 11-23-91.

