

Scope

W6NWX

Palomar Amateur Radio Club Inc.

POST OFFICE BOX 1603, VISTA, CALIFORNIA 92083-0530



W6NWX / R 146.730 (-), 449.425 (-), 145.050 (Pkt). KA6UAI / R 147.135 (+). WD6HFR / R 224.900 (-)

VOL. XXV, NO. 1 JANUARY, 1989

▲	PRESIDENT:	Stan Rohrer, W9FQN, Valley Center	749-0276	▼
▼	VICE PRES:	Jack Hanthorn, KI6JM, Vista	598-0420	▲
▲	SECRETARY:	Nash Williams, W6HCD, Bonsall	728-3574	▼
▼	TREASURER:	Ron Wilhelmy, WI6B, Rancho Santa Fe	756-3133	▲
▲	SCOPE EDITOR:	Ralph Crossman, K6HAV, Vista	727-5866	▲

▶ PALOMAR AMATEUR RADIO CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the CAFETERIA at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido Ave. in Vista. Parking in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome. Meetings are NOT a function of the Vista Unified School District and are NOT sanctioned by the school district board of trustees. Tol' yuz, din't I?

▶ CLUB MEMBERSHIP is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first family member, and \$9.00 for each subsequent member at the same address. See application on last page. Membership/subscription matters, changes of address; P.O. Box 1603, Vista, CA 92083-0530. Material for Scope to PO Box 73, Vista 92083 by Wednesday, two weeks before the club meeting.

JANUARY CLUB MEETING

The January meeting will feature club member Peter Berg, KG6JA, who will show us his photo-voltaic panels and regulators.

If you have an item for sale, bring it to the club meeting and put it on the Sale Table tagged with your name, call and minimum price if any. The Club takes 10% of the sale price and you go home with \$\$ and you'll have to buy something else to hold down the shack (or garage floor in the case of W9FQN).

WANTED

Yaesu FL-110 1000 watt 80-10M amplifier or equivalent. Call Dan, KD7HQ, 789-0943.

10M FM xcvr. Gotta work w/o "kick start." Call Mick, W6FGE, 222-3912.

Liaison and Net Control Stations for the North County Traffic Net.

Working Icom IC-22A; Sony Pro-80 or Panasonic RFB-65. Call Dennis, N6KI, 271-6079.

MEMBER INFORMATION

☆ GNU CLUB MEMBERS: Jack Newlove, N6WVQ, Vista; Rich di Donna, KI6ZH; Mike Wagner, KC6BHF; Michael Sanford, N6WUY, San Diego; Mike Estupinan, KA5ILG, Oceanside; Mark Goodley, N6RMM, Escondido; Bill Sampson, WB6YLT, San Marcos; Bill Blackmore, N6OPP, Oceanside; Roy Levesque, N6LWD, San Diego; James Parkinson, N6WTE, Vista; Glenn Schmidt, Vista. Welcome.

☆ RENUDE: Lane Hart, N6LTV; Russ, Warner, W6QQA; Vern & Mary Paschke, N0CPS & N0EVV; Aubrey Stewart, W6ODG; John Tentor, W6OLQ; Todd Remington, WD6AHV.

☆ UPGRADED LICENSES: Jack Newlove, N6WVQ, to Advanced. Congratulations.

HAM STAMP PINS

The Club still has some of the nice amateur radio postage stamp replica pins for sale at \$5 a pop. See Ron, WI6B or Stan, W9FQN.

VOLUNTEER EXAMINER PROGRAM

At the December tests our PARC VE team gave 22 test elements to 15 applicants, eight of whom passed a total of 11 elements. Congratulations to club member Jack Newlove, N6WVQ, who passed the 13 wpm code test and the Advanced Class element to advance to Advanced.

New test question pools and test material have been in use since November 1st for Novice and Technician. Older study material in hands of club members should be destroyed.

Our test crew was: KI6JM, KE6VX, and KB6NZA reception/processing; WA6HYC, CW exams; N6KL, KS6S, and W6YYV examiners; and paperwork by N6NNI and K6HAV. A busy day especially with two "no-show" VEs. de K6HAV

► FCC LICENSE EXAMINATIONS in north county are conducted by the PARC VE Team, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month at 10:00 a.m.

► Examinations are also given on the 1st Saturday in El Cajon, the 3rd in Normal Heights, the 4th in Chula Vista, and by the Escondido Amateur Radlo Society (EARS) on the last Saturday in Escondido at Coast S&L, 1540 E. Valley 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, Post Office Box 2446, La Mesa, CA 92044 10 days before the test date. Bring ORIGINAL licenses and Certificates as well as a copies which you mailed. Questions: Call Ralph Crossman, K6HAV, 727-5866.

FORESAIL

(That's a jib, son - not a marconi - no olive!)

Member ads in the Scope are free.

From estate of Todd, KI6JM: Yaesu FT757GX HF xcvr w/gen. cov. rx, FP757GX compact pwr supply, FC757AT auto. ant. tuner, SP102P spkr/phone patch, MD-1 dyn. desk mike, MB-1 hand mike, Kenwood HS-5 deluxe head phones, Nye Viking 2KW lo-pass filter, all for \$950. Micronta 1000 ohm/volt multimeter, \$5; Hi-Q Balun with 20M & 40M dipoles attached, two 50' lengths of RG8U coax, all for \$18. Brother HR15 LQ printer, \$150. Call Lloyd, W6TFB, 757-9374.

Kenwood TS-711 25W all-mode 2M base station xcvr w/TTP mike, mint condx. Call Allen, N7AMR, 434-5656.

TA33JR 3-band beam, \$95. Call Art, WA6IPD, 728-6834.

Tektronix T-912 10 mHz 2-trace scope w/storage and 8"X10" screen, like new, \$400. Call Jim Smith, 741-3360.

Datong FL-1 audio filter, \$30; Jennings UCSSL

1000 vacuum variable capacitor, \$40. Asst'd tubes all test good, \$1 ea. Call Dennis, N6KI, 271-6079.

Butternut HF2V 40 & 80M vertical ant., brand new (no sales tax!). Call Ed, N6GZI, 542-1405.

Tempo One 100W HF xcvr, pwr sup. & Yaesu YD-844A desk mike, looks/works good, \$240. C Mark, KC6COD, HP 944-0145 or OP 576-4400.

Kenwood TS-670 10W all-mode quad-bander, 40, 15, 10, and 6M, and general coverage rx. Call Ron, WI6B, 756-3133.

ICom 202 five watt 2M ssb xcvr w/batteries, \$100; Azden PCS 3000 2M FM xcvr, \$100. Novice starter station: Heath SB-300 rx w/HS24 spkr, SB-400 tx w/desk mike, HD-10 keyer, Ameco DLF-2 preamp, Autec 1C active filter as a package \$100. 55' crank up tower w/new HD base, \$90. Live dangerously in the past! Home brew 500W CW, 200W AM rig, \$60. Call Mick, W6FGE, 222-3912.

Coax switches; Heath HD-1250 solid state dip meter. Complete RTTY, CW, ASCII setup: AEA CP-1 Computer Patch, Vic-20 computer w/mon., Datasette, software, all manuals. Call Ralph, K6HAV, 727-5866.

Gas pipe 22' long 2 3/8" dia., 1/8" wall. Call Nash, W6HCD, 728-3574.

NOVICE SPECIAL! Instant 220 mHz station: Icom 37A 25W xcvr; Cushcraft 11-elm. beam & coax; CDR AR22 rotor w/contl. and cable; rooftop tripod w/10' mast; manuals and instructions; \$300 for the works. Butternut SC3000 scan antenna, \$20. Bearcat 160 programmable scan \$50. Call Mick, W6FGE, 222-3912.

Kenwood TS-830S xcvr w/2 CW filters, mint, \$625; SP-230 spkr w/audio filters, \$55; Dentron GLA-1000B 1 KW 80-10M amp, \$225; Diawa CS-201 2-psn coax sw., \$25; MFJ 300W dry dummy load, \$20. Call Duane, AA6EE, 789-3674.

Tri-Ex W51 51' heavy duty, free-standing, crank-up tower, \$750; Swan 350 hf xcvr w/117XC pwr supply and 14-X for 12VDC opn, mike, works perfectly, \$250. Call Larry, W6QCA, 587-2226 WP, 582-4324, HP.

REDUCED PRICE CALLBOOKS

Duane Heise, AA6EE, has 1990 Callbooks at a group discount for club members. The North American edition is \$22.75 vice \$28 retail; the International edition is \$24.75 vice \$30 retail; both for \$45. With trade-in of '89 Callbooks, prices are N.Amer. \$13, Int. \$15. Also available are: 1990 ARRL Handbook \$18.75 vice \$23 retail; ARRL Antenna Book \$15 vice \$18; ARRL Operating Manual \$12 vice \$15; new FCC Rule Book \$7.25 vice \$9. Add 7% sales tax. For shipping add \$1 for first book, \$.95 for each additional book. Mail check to Duane Heise, AA6EE, 16832 Whirlwind Ln., Ramona 92065. Phone 789-3674.

>>>>>>--- PRESIDENT'S MESSAGE ---<<<<<<

###— S D C T N —###

Gordon Wenz-N6GW, our ARRL Section Traffic Manager, has indicated that the name of our evening traffic net, the North County Traffic Net (NCTN), really does not describe the area being served by the net so we will be changing the name to the SAN DIEGO COUNTY TRAFFIC NET (SDCTN) until something better comes along to describe the area that our net serves. The ARRL will be listing us in a special list of emergency nets besides the regular listing. Net controls should correct their net sheets to reflect this change starting on January 1st, 1990. NCTN has served us faithfully since its beginning with "Little Joe-WB6HMY" serving as the first net manager. Little Joe has been hiding out early mornings on 146.28 and on 40M the rest of the day.

###— F I R E S —###

The Del Mar fires (2) caused the Humane Society communicators to be called out in force to help with communications involving the removal of horses from the fire areas to the Del Mar race track. Information on the fires was received too late for this issue of the SCOPE so we will fill you in next month. The 146.730 repeater was used for these emergencies. It should be remembered that ARES has precedence on 146.730 and the Humane Society is to use the KA6UAI repeater on 147.130 if ARES is using 146.730.

###— 1 9 9 0 —###

Membership has been growing over the past 6-7 years and we should probably be over 400 sometime this new year. This past year we started some projects which are in various stages of completion:

- New packet repeater. 100%
- PARC shirts. 100%
- New antennas up (3). 90%
- Generator/battery shed. 90%
- Redo PARC emblem. 90%
- Agreement with KA6UAI. 85%
- 13' house trailer. 80%
- 16' tower trailer. 70%
- Field Day equipment. 60%
- Bury all hardline. 50%
- Carlsbad Comm Ctr. 30%
- Clean repeater site. 30%

- Reserve repeater. 20%
- Autopatch. 10%
- Fireproof bunker. 5%

We could use some help on finishing the above projects plus help on the following new items - if enough interest is shown:

- Two 2M beams with receiver voting so HT's can make it into the repeater and for emergency use.
- Automatic direction finding unit.
- 10m or 220 MHz packet.
- Amateur radio classes.
- Another bunker for the repeater site.

###— WORK PARTIES —###

11-27-89 John-WB6IQS and Bob-KA6HZF visited the site to put in the connecting pipes between the generator shed and the bunker. They still have some more things to do before they can move the batteries into the generator shed.

12-17-89 John and Bob again visited the site to finish up some cementing that needed to be done between the bunker and the generator shed.

— T H A N K S T O —

ORLANDO-N6QVW for finding some 4'x8' sheets of 1/2 inch plywood for the club which will be used to construct some needed items for Field Day next June. Orlando is a pilot and usually flies out of Montgomery Field. DENNIS-N6KI was the "middle man" in the plywood transfer.

DENNIS-N6KI, PJ-N6UCJ, and ELLEN-N6UWW for working the CIVIC DAY at the new convention center on November 24th. They handed out sheets on amateur radio and demonstrated their HT's. They sampled free food at some of the other booths and I understand that Dennis was on TV showing off his new blue PARC shirt.

MAC-NH6EW for taking the Vice-president slot this past year and for the great job he has been doing with the coffee and snacks. Mac appreciates the goodies you have been bringing in on meeting nights and hopes that you will keep up the good work this year.

LOU-ND6W for repairing the club's TR-3 which will be used at the Fallbrook fire control center.

73 de Stan W 9 F Q N

DECEMBER MEETING

At the December club meeting, presided over by Secretary Nash Williams, W6HCD, in the absence of W9FQN, the minutes of the previous meeting and the Treasurer's report were read and approved. Committee reports were heard. Stan Rohrer, W9FQN, President; Jack Hanthorn, KI6JM, Vice President; Nash Williams, W6HCD, Secretary; and Ron Wilhelm, WI6B, Treasurer, were elected to office for 1990. Mark, N6NNI, showed us a home brew VHF antenna matching device he had built. The evening's meeting was a social one with an excellent turn out. We had former club members, now denizens of Oregon, Bill Jago, K7MO, and Earl Leak, K6CLU, looking in on the proceedings. The no-cal goodies were delicious and plentiful thanks to Mac, NH6EW, and those thoughtful enough to bring them. 63 of us attended and had a great time.

PARC REPEATERS

Three repeaters, two W6NWG/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and output is 449.425 MHz. The third, W6NWG, is a packet digipeater on 145.050 MHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users.

Co-located with W6NWG/R is KA6UAI/R, 147.130 (+) which too is available to PARC members. Its use as a W6NWG/R overflow machine is encouraged. It will have battery backup - reecl soon.

The 220 Club of San Diego welcomes PARC members on WD6HFR/R, its 224.900 MHz repeater, co-located with W6NWG/R. It too has battery back up. Feel free to use it. If you find it useful, it wouldn't hurt to help support it by joining the 220 Club. Many of us have.

LATEST CALL SIGNS

The last amateur calls issued for the Sixth Call Area by the FCC on 12/1/89 were: AA6SJ, KK6CO, N6XBF, KC6HED.

EXECUTIVE COMMITTEE

The executive Committee, consisting of club officers and Chairmen of its committees, meets at 7:30 p.m. on the second Thursday after the club meeting. The January meeting will be at the home of WI6B. There was no December meeting.

▶ THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS is to *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. Try to hear the interfering signal on the input of the repeater and determine the source direction.

☼ ARE YOU A PROSPECTIVE HAM? ☼

Interested in amateur (ham) radio and in the Palomar Amateur Radio Club? Want to talk to someone about it? You do? Then *contact in:*

Bonsall	Nash Williams, W6HCD	728-357
Camp Pendleton	PJ Mead, N6UCJ	941-9162
Cardiff	Duane Stedman, WB6R	753-4821
Carlsbad	Eleanore Call, N6QJE	729-0850
Chula Vista	Betty Mahoney, KB6DGR	420-2277
Del Mar	George Uminski, K6YGK	755-1014
Escondido	Jo Ashley, KB6NMK	741-2560
Encinitas	Dave Copley, WA6HQM	753-2605
Fallbrook	Art Rideout, WA6IPD	728-6834
Lakeside	Mac McBride, WB6GXR	561-2211
La Mesa	Roger Jaffe, N6UUW	697-6025
Leucadia	Bud Lincoln, KG6VX	436-9983
Oceanside	Lloyd Hunt, W6TFB	439-8227
Poway	Mark Schlessinger, N6NNI	748-8391
Ramona	Mike Fisher, N6MMP	789-2892
Rcho. Sta. Fe	Ron Wilhelmy, WI6B	756-3133
San Diego	Dennis Vernacchia, N6KI	271-6079
San Diego	John Tentor, W6OLQ	672-3891
San Marcos	Floyd Harvey, W6JSP	741-8391
Solana Beach	Lou Broadbent, N6CKQ	755-9179
Valley Center	Stan Rohrer, W9FQN	749-0276
Vista	Ralph Crossman, K6HAV	727-5866

WA6IPD/R, NEW FALLBROOK REPEATER

In the aftermath of the San Francisco quake Fallbrook officials (fire, sheriff, water, school hospital) have all voiced their dependence on amateur radio for supplemental emergency communications in the event of such a major disaster here. To help meet this need, a new low power repeater, WA6IPD, has been established in Fallbrook to cover the valley areas the Palomar Repeater cannot reach. It is on 146.175 (+) with a 162.2 Hz tone required for access. An autopatch is planned.

The annual earthquake disaster drill for the Fallbrook schools will be held in January. Amateurs who would like to help should contact Phil Leonelli, WF6L, at Potter Jr. High after 3:00 p.m., 723-7088 or at home at 757-7008. Amateurs should have HTs with PL capability. de Art, WA6IPD.

FLEA MARKETS

▶ The El Cajon ARC ham, computer, electronics swap meet at the Santee Drive-in theater, Woodside Ave at Hwy 67, Santee at 0700, first Saturday.

▶ The General Dynamics ARC swap meet on the 2nd Saturday in Cucamonga in the Gen. Dyn. parking lot east of Haven on Fourth Ave, at 0700. Talk-in on 146.91 (-).

▶ The TRW ARC flea mart at the corner of Compton and Aviation Blvd. in Manhattan Beach on the last Saturday of the month at 0700. Talk-in on 145.32 (-), TRW repeater.

DOS PRIMER

by Chuck Dowling Jr., KI6TG

For those starting out with DOS (Disk Operating System), here are some commands to get you started. First, DOS does as the name implies. It is a Disk Operating System. In plainer terms, it manages the files and directories on your hard disk or floppy disks. This list is *not* inclusive of all DOS commands, just the most used.

MD - Make Directory. All your files should be in directories. Think of directories as folders into which like items are put. By keeping things in directories, you can easily access or move these groups. I still see folks mixing non-related files in one directory. This makes a mess when trying to find something, or perhaps update a software package. Make a directory by typing MD DIRNAME where "DIRNAME" is any 8 character name you like. I try to make the name so it clues me in to what's in the directory. The "root" directory is at the top of the tree of directories. Under my root directory, I made the directories DOS for all my DOS files, GAMES for of my games, HAM for my Ham stuff, COMM for communications programs, etc. Then, under the GAMES directory there are more directories that contain the actual files for the games. So there are no "real" files in the GAMES directory, just more directory names. This is done for organization and to maintain sanity. Software programs may contain one to a hundred or more files. You can imagine how it would be to mix these together in one directory!

CD - Change directory. This gets you around to your different directories. If you want to go to the top or root directory from anywhere on the disk, enter CD\ at the prompt. To go to a specific directory, type CD DIRNAME where DIRNAME is the name of the directory you want. This directory must be either directly beneath where you are in the "tree" or you must give the rest of the "path" You can't jump over subdirectories to a lower directory. Some examples: If you were at the root directory and want to get to the DOS directory, type CD DOS. When not in the root directory, type CD \DOS from any place. To get to a HAM directory from anyplace on the disk, type CD \HAM\CW. Again, the \ tells DOS to start at the root, or top directory. If you were in the GAMES directory, you could NOT type CD HAM\CW because DOS would look for a directory called HAM under the GAMES directory. You can type CD.. to go up one level in the path. If in C:\GAMES\CHESS and you typed CD.. you would go to C:\GAMES. If you have more than one drive, be sure to specify the drive letter.

RD - Remove Directory. Just as you'd think, this gets rid of a directory. The directory must be empty, and have no sub-directories. The syntax is

RD GAMES to get rid of the GAMES directory.

DEL - Deletes a file or a subdirectory of files. Wild cards are allowed. To remove a file, type DEL FILENAME where FILENAME is the file to be deleted. To delete all files ending with .BAT, type DEL *.BAT. To delete all files in the directory you're in, type DEL *.* meaning delete any file with any extension. To delete all files in a subdirectory just below you in the tree, type DELETE SUBDIR where SUBDIR is the name of the subdirectory. You may then use RD to get rid of the subdirectory.

COPY - Copy a file. The syntax is COPY PATH\FILENAME PATH\FILENAME. The first PATH\FILENAME is the source file, and the second is the destination file. The names can be different. The PATH is only required if you are not currently in that directory. Lets say you were in the GAMES\CHESS directory and needed to copy a file from the UTIL\MISC directory. The command: COPY \UTIL\MISC\HELPME.TXT. This copies the file HELPME.TXT from the \UTIL\MISC directory to where you are in the tree. If you wanted the name of the file to be different from the original name type COPY \UTIL\MISC\HELPME.TXT HELPUS.TXT. You can also use wild cards with this command, like COPY *.EXE JOE\FILES\PROGRAMS.

REN - Rename a file. Type the original filename followed by the new. REN RECIPE.OLD RECIPE.NEW. Paths and wild cards apply.

CLS - Clear the screen

FORMAT - Prepare a floppy or hard disk to receive data. Be careful with this one...all data on the disk is lost when formatting it. To prepare a new floppy, type FORMAT A:

CHKDSK - Check the drive for free disk space, amount of space used, and a report on free RAM memory. Syntax: CHKDSK A: or from the C drive: CHKDSK. It is normal to use the /F parameter with this command to gain back any disk space that DOS has lost track of. This can happen when a program acts up, creating files unknown to DOS. If "lost clusters" are found, you will be asked if you want to convert them to files. You may want to look at the files, then delete them. Chances are they are trash anyway.

DISKCOPY - Copy a floppy disk - Syntax: DISKCOPY A: B: where A is the source and B the destination. If you only have one floppy drive, you can still use the above command. DOS will prompt you to change the source and destination diskettes.

That's just a few of the many DOS commands. EXPERIMENT and learn what these and other commands can do. These commands can also be included in "batch" files to avoid repetitive typing.

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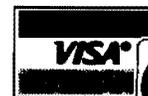


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PARC ENLISTMENT/REENLISTMENT APPLICATION

Mail form with \$\$ to PARC, P.O. Box 1603, Vista, CA 92083-0530 or hand to Jo, KB6NMK, at club meetings. Dues (including SCOPE) are \$12 a year plus \$9 for each additional 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. Consider paying for two or three years at a time. Call, name, and complete address are required. Telephone number may be unlisted in roster if requested. Other information requested below may be omitted if you feel uncomfortable providing it to the Club.

Call _____ Name _____

Expires _____ Address _____

Class _____ City _____ State _____ Zip _____

Old Call _____ Phone # _____ home _____ work _____ Other _____

Date 1st licensed _____ Birth date _____ Thomas Brothers location, page # _____ coord _____

Names & calls of family members in PARC _____

ARRL _____ RACES _____ ARES _____ Red Flag _____ Blood donor _____ Type _____ Comments: _____

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DOTTED LION

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MEMBER INFORMATION

✧ **GNU CLUB MEMBERS:** Earl Chico, K6MXM, Escondido; Donald Wilson, W9AOX, Carlsbad; Brian Donaldson, KF6BL, Vista; Sam Stidd, San Diego; Vernon Leming, N6WBO, Ramona (2 yrs). Welcome.

✧ **RENUDE:** Larry & Vina de Montegré, WQ6V & N6PQQ, Bill Bowen, N6FMK, (3yrs); Tom & Wilma Healy, N6NNQ & N6NNP, (2yrs.); Frank Ramme, WB6HFE; Del & Kelly Partridge, WV6Z & N6HSB.

✧ **UPGRADED LICENSES:** Mark Ross, KC6CZO, to General; Jack Newlove, N6WVQ, passed 1B and now is KK6FC. Congratulations.

☺ **ACHTUNG!** Correct address for Erick KB6EPO, needed. Newsletter was returned "no such number". If you hear him or talk to him, please ask him to get his address to Jo, KB6NMK.

LATEST CALL SIGNS

The last amateur calls issued for the Sixth Call Area by the FCC on 1/1/90 were: AA6SY, KK6EH, N6XLC, KC6HTK.

.....
FORESAIL

Personal ads of member are free.

From estate of K16ZM: DGM MKB-2000 keyboard for sending perfect CW, has message buffers and many features, \$100. Brother HR15 LQ printer, \$150. Call Lloyd, W6TFB, 757-9374.

Dentron MLA 2500 10-80M linear amp., xlt condx w/manual, \$490; color monitor CGA, like new, \$135 or trade; green mono monitor, composite, \$20. Call Bill, N6COU, 758-7163.

Package deal: Yaesu FT208R w/rubber duck, FNB-2 10.8V 450 mAh xtra btry, NC-8 quick/trickle/standard charger, FGA-2 btry pack adapter, NC9-B wall charger (if your wall needs charging, here's the deal!), YM24-A spkr/mike, belt clip, manual, \$325. Call Earl, K6MXM, 743-0860.

Kenwood TS820-S w/500 Hz filt. and remote VFO820, new finals & Kenwood align., orig. owner, \$545. Hardwood desk w/no-mar top, great operating psn, 30"X60", \$125. Poucel Electronics single lever CW paddle w/heavy chrome base, \$20. Call Russ, WB6IOV, 436-6714 hp, 587-2204 wp.

GARAGE CLEANOUT!! FRG-7 gen. cov. rx, \$175; like new Kaypro II computer w/manuals & software, \$200; Heathkit lab scope O-11, \$50; McMurdock Silver FM/TV SWEEP GEN, \$25; Hallicrafters S-40 rx, good condx, \$40; Collins 70E8 PTO ser #1, in cabinet w/dial, \$35; BC-348 WWII rx, \$50; RCA Radiomarine CRM-R1A rx, \$50; 2 CB rigs, Siltronix & Realistic, offer; HV pwr supply 235 V @ 200 ma. or 1000 V @ 300 ma, on chassis, unwired, \$50; 750 VA AC line volt. reg., \$50. Call the Radio Museum, 755-1014, ask for George, K6YGK.

Kenwood TS-711 25W all-mode 2M base station xcvr w/TTP mike, mint condx. Call Allen, N7AMR, 434-5656.

Apple IIc+ w/color mon. & ext. 5¼" DD & int. 3½" DD, lots of software, new, never used, \$600. Call Ralph, K6HAV, 727-5866.

Butternut HF2V 40 & 80M vertical ant., brand new (no sales tax!). Call Ed, N6GZI, 542-1405.

Kenwood TS-670 10W all-mode quad-bander, 40, 15, 10, and 6M, and general coverage rx. Call Ron, W16B, 756-3133.

Coax switches. Complete RTTY, CW, ASCII setup: AEA CP-1 Computer Patch, Vic-20 computer w/mon., Datasette, software, all manuals. Call Ralph, K6HAV, 727-5866.

Gas pipe 22' long 2 3/8" dia., 1/8" wall. Call Nash, W6HCD, 728-3574.

NOVICE SPECIAL! Instant 220 mHz station: Icom 37A 25W xcvr; Cushcraft 11-elm. beam & coax; CDR AR22 rotor w/contl. and cable; roof-top tripod w/10' mast; manuals and instructions; \$300 for the works. Butternut SC3000 scanner antenna, \$20. Bearcat 160 programmable scanner \$50. Call Mick, W6FGE, 222-3912.

Datong FL-1 audio filter, \$30; Jennings UCSL 1000 vacuum variable capacitor, \$40. Asst'd tubes all test good, \$1 ea. Call Dennis, N6KI, 271-6079.

MFJ Grandmaster Memory Keyer, \$75; Kenwood PB-21 battery, \$9; service manual for TS-530, \$9; 80M add on coil for HyGain 14AVQ, \$9. Call Duane, AA6EE, 789-3674.

Tri-Ex W51 51' heavy duty, free-standing, crank-up tower, \$550. Call Larry, W6QCA, 587-2226 WP, 582-4324, HP.

New, unused quad-band (6,10,15,20M) British-made 3 elm. mini-beam (boom is 9.5', longest elm is 10.75'). Call Lou, WB6CQA, 726-3572.

HAM STAMP PINS

The Club still has some of the nice amateur radio postage stamp replica pins for sale at \$5 a pop. See Ron, W16B or Stan, W9FQN.

☼ **ARE YOU A PROSPECTIVE HAM?** ☼

Interested in amateur (ham) radio and in the Palomar Amateur Radio Club? Want to talk to someone about it? You do? Then *contact in:*

Bonsall	Nash Williams, W6HCD	728-3574
Camp Pendleton	PJ Mead, N6UCJ	941-9162
Cardiff	Duane Stedman, W6BR	753-4821
Carlsbad	Eleanore Call, N6QJE	729-0850
Chula Vista	Betty Mahoney, KB6DGR	420-2277
Del Mar	George Uminski, K6YGK	755-1014
Escondido	Jo Ashley, KB6NMK	741-2560
Encinitas	Dave Copley, WA6HQM	753-2605
Fallbrook	Art Rideout, WA6IPD	728-6834
Lakeside	Mac McBride, WB6GXR	561-2211
La Mesa	Roger Jaffe, N6UWU	697-6025
Leucadla	Bud Lincoln, KG6VX	436-9983
Oceanside	Lloyd Hunt, W6TFB	439-8227
Poway	Mark Schlessinger, N6NNI	748-8391
Ramona	Mike Fisher, N6MMP	789-2892
Rcho. Sta. Fe	Ron Wilhelmy, W16B	756-3133
San Diego	Dennis Vernacchia, N6KI	271-6079
San Diego	John Tentor, W6OLQ	672-3891
San Marcos	Floyd Harvey, W6JSP	741-8391
Solana Beach	Lou Broadbent, N6CKQ	755-9179
Valley Center	Stan Rohrer, W9FQN	749-0276
Vista	Ralph Crossman, K6HAV	727-5866

FLEA MARKETS

► The El Cajon ARC ham, computer, electronics swap meet at the Santee Drive-in theater, Woodside Ave at Hwy 67, Santee at 0700, first Saturday.

► The General Dynamics ARC swap meet on the 2nd Saturday in Cucamonga in the General Dynamics parking lot east of Haven on Fourth Ave, at 0700. Talk-in on 146.91 (-)

► The TRW ARC flea mart at the corner of Compton and Aviation Blvd. in Manhattan Beach on the last Saturday of the month at 0700. Talk-in on 145.32 (-), TRW repeater.

>>>>>>--- PRESIDENT'S MESSAGE ---<<<<<<

###--- PROGRAMS ---###

One of the important aspects of our club is our club programs. We try to get programs that are of interest to the majority of those coming to meetings and we certainly would appreciate your help in letting us know what type of program you would like to have for club meetings: technical, antennas, general, DX, slides, "how to" programs, etc. If you have suggestions, please contact our new vice-president, Jack-KI6JM, and let him know of your interests.

Every 3-4 years we do some repeating of programs but we try to introduce a different "slant" to them by having a different person give the talk or by varying how technical the talk is. We try to please the majority and we know that we don't please "you" all of the time. Sometimes we are just lucky to have a program.

###--- HAM CALENDAR ---###

Jan 27-4	- -	ARRL Novice Roundup
Feb 3	- -	Santee Swap Meet
Feb 7	- -	PARC Club Meeting
Feb 10	- -	PARC VE Testing
Feb 15	- -	PARC Exec Meeting
Feb 16-18	- -	Gordon West Novice crash course in San Diego (714)549-5000, tell your friends)
Feb 17	- -	EARS T - Hunt
Feb 17-18	- -	ARRL DX CW Contest
Feb 22	- -	Ham Help Net Starts
Feb 23	- -	VE Code Net Starts
Feb 24	- -	HRO ICOM Day Prizes
Feb 24	- -	EARS VE Testing
Mar 3	- -	Santee Swap Meet
Mar 3-4	- -	ARRL DX SSB Contest
Mar 7	- -	PARC Club Meeting
Mar 10	- -	PARC VE Testing
Mar 15	- -	PARC Exec Meeting
Mar 17	- -	EARS T - Hunt
Mar 31	- -	EARS VE Testing
Apr 4	- -	PARC Club Meeting
Apr 12	- -	PARC Exec Meeting

(Send activities to W9FQN)

###--- NETS ---###

NATIONAL TRAFFIC SYSTEM

Joe-N6RVO has been appointed as chairman of the club's SAN DIEGO COUNTY TRAFFIC NET (SDC-TN). He will be assisted by Chuck-

N6TJT and Rich-KI6ZH who will take care of the nightly net controls and SCNV liaison stations respectively effective February 1st, 1990. Please give them all of the help that you can.

HAM HELP NET

This net will begin at 9:00 p.m., Thursday, February 22nd and will run for 1-2 months to see if there is any need for this type of net. The purpose will be to answer questions about amateur radio: antennas, transceivers, power supplies, "how to", where to go, informational items, discussions, etc. If you are interested in helping us with this net, please contact W9FQN.

VE CODE NET

This net will begin at 9:00 p.m., Friday, February 23rd, and will also run for 1-2 months to see if there is any need for this type of net. The net will start out with sample VE code test messages sent at 5, 13, and 20 wpm with the possibility of plain text from the SCOPE at 7 and 15 wpm. The net should end after 15-30 minutes. The Executive Committee approved the sending of code practice over the repeater several years ago and it was decided to start it up again in a different format. If you are interested in helping us with this net, please contact W9FQN and I will add you to the list of others who have volunteered.

PERSONAL COMPUTER NET

This net has not been meeting lately. If you can serve as a net control and help Chuck-KI6TG with the net control duties, we will see if we can get it back on the air.

If we can't find net controls for some of the nets, we might just hold "informal" nets at those times for anyone who wants to discuss something of interest.

###--- BUILDING ---###

We are looking into the costs of installing another repeater bunker at the repeater site next to the tower. One option is to buy a cargo container and the another is to construct a bunker like the one we have except larger. For the past few years we have realized that we have a problem with lack of space in the present building for all of the planned electrical equipment and associated emergency power supply systems. Sometimes it takes 10

minutes just removing boxes of small parts, coils of hardline, antenna parts, etc. before we can even get near the repeaters. Of course, it takes just as long to replace the items when we finish.

We will let you know more about this as soon as we have collected all of the information about our options. Suggestions are welcome.

###--- WORK PARTIES ---###

12-30-89 John-WB6IQS, Bob-KA6HZF, Nancy-KC6FZN, Matt-N6OEI, and Erik-KA6UAI worked on electrical items in the bunker and did some house cleaning. There was some snow on the ground but most of it melted by the end of the day. Nancy is now on the air with a new HT which she hopes to use while camping and hiking.

###--- P O T P O R I ---###

We are thinking of holding one of our club meetings in the new CARLSBAD emergency center - probably April 4th. They have an auditorium for about 100+ people and you would be able to see the new RACES/ARES room which our club is helping to support. They have a through the wall projection screen and facilities for projecting VCR tapes. Please let us know if you have any serious objections to holding a meeting there. For some of you it will be a shorter distance to travel and for others a little bit longer. The Center is near the Palomar Airport.

Larry-WQ6V is interested in knowing whether our members vote "yes" or "no" on the ARRL "NO CODE" issue. Those coming to the February meeting will have an opportunity to vote on this issue. The rest of you can send Larry a radiogram: Ph 726-0353. Remember that the "no code" applies only to frequencies above 220 MHz and is meant to encourage digital communications with some voice privileges being made available too. We will also survey the people attending the next two meetings on how far they had to drive to the meeting in Vista and then again when we go to Carlsbad.

Time certainly flies when you are having fun! One of my Indiana amateur radio students from 33 years ago recently visited with me on my 60th birthday in January. Pete-KNOE/KH3 (Johnston Island 1x2 miles) was the best CW student I ever had (35-

45wpm) and is almost always in the top 10 in most CW contests that he enters. He was able to locate my telephone number on 146.730 and this is one of the main reasons why I have never bothered to change my W9 call to a "6" call since coming to California in 1970. I remember seeing Pete working three CW stations during the last 60 seconds of a High School FD and I was really impressed. This is the second time that former students of mine have located me thru our repeater. Pete will be going on a DXpedition this Spring and I will announce his destination as soon as his plans are completed.

###--- F I R E S ---###

On November 28th the San Diego Humane Society & S.P.C.A Animal Rescue Reserve team was called out for the Carmel Valley Fire near Black Mountain and the Ham communications effort lasted about eight hours. No homes or horses (200) were lost and many horses were removed to the Del Mar Fair grounds.

Some of the communicators were: Gary-KC6BJM, Marsh-W6SAX, Scott-KD6FY, WA6AIL, N6EBL, N6BSD, W6JPB, KA6HCB, WA2NNT, KB6MV, Bill-N6OPP, Jim-KF6QH, etc. W6GIC handled communications at the Humane Society and N6ELP coordinated the field effort.

A copy of KC6BJM's letter has been sent to the ARRL (QST).

The Animal Rescue Reserve is looking for a few Good Hams to join its ranks and all interested operators are welcome. Please contact Dee-N6ELP at 753-5647 or the unit at 299-7012.

--- T H A N K S T O ---

MARNI-KB6PCF for taking care of the San Diego County Traffic Net (SDC-TN) through 1989. Your efforts were much appreciated and we hope that you get your general class license soon.

JACK-KI6JM for the custom box for the club's PA system. It will certainly make it easier to set up and take down at meetings and other events.

MICK-W6FWG for offering to do some electronic construction for the club. The first item will probably be an auxiliary control system. We have all of the boards and they will need packaging.

73 de Stan W9FQN

EXECUTIVE COMMITTEE

The executive Committee, consisting of club officers and Chairmen of its committees, meets at 7:30 p.m. on the second Thursday after the club meeting. The February meeting will be at the home of W16B.

At the January meeting at the home of W16B, the minutes of the last meeting and the Treasurer's Report were read and approved. The Committee discussed the problem of trespassers driving across the Club's property on Mt. Palomar and it was decided to post and block access by use of barbed wire fencing. The commercial tenant replacing the one inherited when the Club bought the repeater site, has installed his equipment and is to be notified his rent started on 1/1/90. The Committee discussed the construction of a new building at the base of the tower to provide for shorter coax runs and more space for equipment, storage and work.

A grand time was had by all - probably.

VOLUNTEER EXAMINER PROGRAM

At the January tests our very busy PARC VE team gave 33 test elements to 16 applicants, 10 of whom passed a total of 24 elements. Congratulations to club member Mark Ross, KC6CZO, who advanced to General; and to Jack Newlove, N6WVQ, who passed the written portion of the Extra Class exam.

Our test crew was: K16JM & KE6VX reception & processing; WB6R, CW exams; AA6KY, AA6OM, and W6TFB examiners; and paperwork by W16B, N6RUV, and K6HAV. Even giving 33 elements, our very efficient crew was through with the exams by noon and with all the paperwork by 1230. A job well done. de K6HAV

► FCC LICENSE EXAMINATIONS in north county are conducted by the PARC VE Team, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month at 10:00 a.m.

► Examinations are also given on the 1st Saturday in El Cajon, the 3rd in Normal Heights, the 4th in Chula Vista, and by the Escondido Amateur Radio Society (EARS) on the last Saturday in Escondido at Coast S&L, 1540 E. Valley 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, Post Office Box 2446, La Mesa, CA 92044 10 days before the test date. Bring ORIGINAL licenses and Certificates as well as a copies which you mailed. Questions: Call Ralph Crossman, K6HAV, 727-5866.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ, who is very finicky and requires, not only money but, that you let him in on your name and call sign for your very own badge - like the big guys.

John has badges for: KC6AST, KC6BIM, N7EQU, WB6NVX, WA6QGC, WB6RWF, N6UZG.

If you don't want to pay full tab for your very own badge, John can make you a real deal on an unclaimed one.

WANTED

ICom IC-30, 30A, or like xtal-contld/very basic syn. 450 mHz xcvr. Call Jerry, WB6FMT, 758-4388.

20A pwr supply, 300W ant. tuner, ham logging computer program. Call Duane, AA6EE, 789-3674.

4-5 elm. 10M beam; low pwr (100W) linear amp w/low drive reqrd, for 10M FM, prefer 12VDC equip. Call Mick, W6FGE, 222-3912.

Yaesu FL-110 1000 watt 80-10M amplifier or equivalent. Call Dan, KD7HQ, 789-0943.

Working Icom IC-22A; Sony Pro-80 or Panasonic RFB-65. Call Dennis, N6KI, 271-6079.

PARC REPEATERS

Three repeaters, two W6NWG/R, are owned and operated by the Club. One has an input of 146.130 mHz and an output of 146.730 mHz. Input for another is 444.425 mHz and output is 449.425 mHz. The third, W6NWG, is a packet digipeater on 145.050 mHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users.

Co-located with W6NWG/R is K6BUAI/R, 147.130 (+) which too is available to PARC members. Its use as a W6NWG/R overflow machine is encouraged. It will have battery backup - reecee soon?

The 220 Club of San Diego welcomes PARC members on WD8HFR/R, its 224.900 mHz repeater, co-located with W6NWG/R. It too has battery back up. Feel free to use it. If you find it useful, it wouldn't hurt to help support it by joining the 220 Club. Many of us have.

► THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS is to *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. Try to hear the interfering signal on the input of the repeater and determine the source direction.

DISCOUNT PRICES ON 1990 CALLBOOKS

Group discount prices on 1990 Callbooks and ARRL Handbooks are available. The \$28 North Amer. Callbook is \$23.50; the \$30 International Callbook is \$25.50; or both for \$46. The \$23 1990 ARRL Handbook is \$18.75 and the \$18 Antenna Book is \$15. Add sales tax. Call Duane, AA6EE, 789-3674.

§ COMPUTER QUESTIONS AND ANSWERS §

By Chuck Dowling, K16TG

Q) How can I get started with computer/ham communications at a minimum cost?

A) As most of you know, there are many, many computers in use for ham communication modes such as packet, RTTY, FAX, Etc. There is quite a bit of software out there also, so selecting a system can be quite confusing. The basic parts you'll need are: A computer-to-radio interface. There are many available, called data controllers, TNCs (terminal node controllers) or computer interfaces. These "boxes" convert audio information from your radio (HF, VHF, Etc.) into digital info that your computer can use. If you only want RTTY and CW, you can get by with an interface such as the MFJ 1224. It is a simple interface. I paid \$35 for mine about 3 years ago. If you want features like packet and FAX, I highly recommend one of the "all-mode" data controllers. These units will do packet, RTTY, ASCII, CW, FAX, SSTV plus some modes I probably forgot. You just can't beat the cost of these units for all the capability you get. Popular units to look at are the MFJ 1278, the KAM, and the PK232. The older PK64 is still available for use with the C-64. They have very similar features. Next, you need a computer. By far the most popular computers for this type of application are the Commodore Vic 20 and C64, and the IBM clone series of XT's and AT's, with "Apple" products running a close third. The firmware (not hardware, not software, but somewhere in between), is built into the data controller. Any computer that has an RS232 serial port and some communications software can be used to "talk" to the data controller. You can use the same software you would use to talk to a modem or BBS system. Most of the data controllers come with their own software for this, but you can also use Procomm, Mirror, PCtalk, or whatever. Back to the computer - you can get a Vic 20 at the swap meet in Santee (I always see 1 or 2) for about \$25-\$50 complete! These same units used to sell for hundreds of dollars back when they were first introduced. The C64 is available for about \$100 depending on what deal you can make. There is a wealth of software available for these machines. For serious computer users, you might want to look at an IBM clone, but if you only plan to use the computer for Ham communications, you probably don't need such an expensive system (\$600-\$5,000). There are other things you can do with your Vic20, C64 or PC such as word processing, games, spreadsheets, etc. You will, of course, need a monitor to see what's going on (you can use any tv with the Vic20 and C64).

Getting on the air - OK, now you've got all this junk, what now? First you need to connect the data controller to the computer. For most situations this is as simple as plugging a cable into the RS232 ports on the computer and the data controller. Next comes the wiring from the Ham rig to the data controller. This involves the external speaker jack, and the mic connector. The goal is to get audio from the radio to the controller for receive, and mic level audio from the controller to the mic input of your rig for transmission.

There is also a connection to the PTT line of your rig so the controller can put the rig into transmit mode. The wiring should be covered in the documentation, and is usually very clear. That's about it, your ready to go. It's nice if you have a friend to walk you through your first packet contact RTTY QSO. There are a ton of commands and parameters to learn, and it may seem overwhelming at first, but its like when you got your rig home or your handy-talky and you thought you'd never figure it out, but now it's second nature. You don't need to know much about a computer to use these modes. Have fun, be patient & read, read, read.

FCC-ISSUED CALLS DATA BASE NOW AVAILABLE ON CD-ROM

Buckmaster of Mineral, VA will now sell you a CD-ROM data disk containing the 500,000+ call signs of U.S. and possessions hams, a CD-ROM drive with interface card for IBM PC/AT-type computers, and software for \$500. With this package and your PC-AT you have your own "call book" and much more since you can quickly find any currently FCC-licensed ham by call sign, name, address, city, state, Zip code or license class. Every active amateur radio club should have one. They certainly could get a quick listing of all of the hams in their area. Wonder which local BBS will be the first to have this oh-so-handy dandy package. It's not CompuServe, but one of the other services has what sounds like it. (See page 151, 1/90 QST.)

CLUB-SPONSORED NETWORKS

THE NORTH COUNTY TRAFFIC NET meets nightly +on 146.730 MHz (-600 kHz) at 2000 local to handle formal written traffic. Visitors are welcome. Net Manager: Marnie Parker, KB6PCF.

THE NORTHERN DISTRICT, SAN DIEGO SECTION AMATEUR RADIO EMERGENCY SERVICE (A.R.E.S.) NET meets on 146.730 MHz each Sunday at 0830 to provide A.R.E.S. and emergency and public service planning information to members of the Service. Visitors are welcome when called for after the member roll-call.

THE SAN DIEGO COUNTY MICROWAVE NET meets on 146.730 MHz each Monday at 2100. This net is to disseminate microwave information and is open to the old timer and the beginning microwaver. All are welcome. Kerry, N6IZW, is net control station. If you can't check in, at least give them a micro wave as you pass by.

THE SAN DIEGO COUNTY PACKET RADIO VOICE NET meets on 146.730 MHz each Tuesday (except the 2nd Tues. of the month) at 2100. This net is to provide information on Packet Radio for the beginner and the advanced packeteer. All are welcome. Paul, KB5MU, is net control.

THE SAN DIEGO COUNTY PERSONAL COMPUTER NET meets on 146.730 MHz each Wednesday evening (except for the 1st Wed. of the month) at 2100 to share information computers. Chuck, K16TG, is NCS, and he welcomes those with problems, information, questions, solutions, any PC - it doesn't have to be an IBM compatible.

HELP WANTED

- ▶ Bob, KE6VX, needs 3-4 Vista hams to man the Vista RACES station at the Melrose fire house on Monday nights. Call Bob at 727-0606.
- ▶ Michael Hamman, WB6CSH, wants to hear from hams interested in becoming part of a SoCal-wide Kaiser Hospital Disaster Net on 2M. Details on becoming part of this disaster network; and on the various levels of participation may be obtained from him at 528-5300, 436-4411 X 5300, or 741-3445 X 5300. Leave a message.

SURPLUS?

DONATE IT TO THE CLUB if you can't sell it or aren't up to hauling that TS-950 or IC-781 to the flea markets. The Club will sell it and put the money in the Equipment Fund for a new repeater, antenna, or coax. Contact a club officer.

SURPLUS GOODIES of the electronic persuasion at:

- ▶ Alexander Battery Co. West, 520 State St., Escondido, phone 480-4445. has HT batteries and others.
- ▶ Aluminum, brass, copper, stainless steel, etc. at Escondido Sales, 1428 Mission Rd., Escondido.
- ▶ Electronic, mechanical, computer parts, etc. at Industrial Liquidators, 683 S. Rancho Santa Fe Rd., San Marcos; and 4887 Convoy St., San Diego, and Gateway Electronics, 9222 Chesapeake.

EARS T-HUNTS

The Escondido ARS (EARS) sponsors a T-hunt on the 3rd Saturday of the month at 0930. Assembly point talk-in at 0900 on 146.88 (-). The hunt frequency is 146.565. Hidden tx is within 10 miles of start. All are welcome. New folks may ride along a time or two to see how it is done.

POINT LOMA NOVICE INSTRUCTION

Mick McDaniel, W6FGE, phone 222-3912, says he's part of a small group of hams on Pt. Loma who give Novice instruction and do Novice testing.

REPEATER WORK

by John Kuivinen, WB8IQS

On 12/30/89, a work party went to the mountain to prepare the generator shed and bunker for relocation of the reserve batteries. Cables were measured, cut and prepared by Bob, KA6HZF, and Nancy, KC6FZN, while Matt, N6OEI, and I worked on cable mounts and heater sensors. Eric, KA6UAI, and John Barcroff installed new equipment on the 147.130 machine. After the weather settles down, we plan to return to mount the power cables, install instrumentation wiring, check out the heater circuits, and finally relocate the batteries.



DOWN THE TOOBE

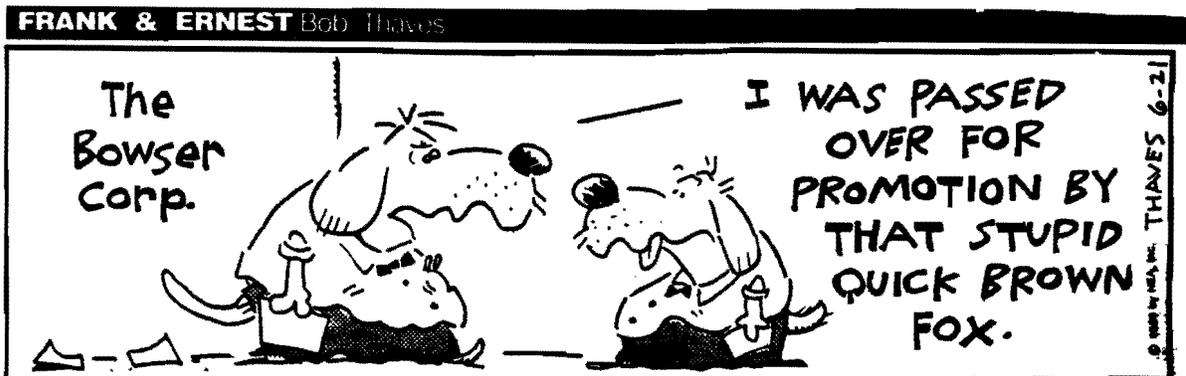
Besides the U.S. calls data base, we also noticed in QST that Ross Distributing Co. of Preston, ID, and other purveyors of amateur radio equipment are now advertising they carry Heath products. To my mind, Heath prices have not been competitive for some time so perhaps this is a move to make their gear more attractive - price wise - I hope.

Also in the ham mags are lots of folks advertising after-market batteries and battery inserts for the popular HTs. These sure do beat the price of the HT manufacturers are charging for their "original" batteries. I recently bought from AES inserts for the BC-3 & 5s for my IC02AT and 3AT and was very happy to pay so much less than ICom batteries would have set me back. They work too!

The W1AW code practice and bulletins schedules are listed on page 84 of the 1/90 QST. I really found the code practice sessions were helpful to me as it gave me a schedule I had to follow - it's so easy to say "I'll run the tape later, I'm busy now." You can't do this with the Gnuington transmissions. You keep the skeds or you've missed them.



"That's all," she wrote.



RYRYRY OLD TIME RTTY FANATICS WILL APPRECIATE THIS CARTOON RYRYRY

JOIN A.R.E.S. AND
R.A.C.E.S.

In order to be able to serve in time of an emergency, you need to be on the rolls of both RACES and ARES. RACES is part of the state's emergency service and its members are covered by state law and workman's compensation when the member is ordered to duty by the county or state emergency organizations. It is to the individual ham's benefit to belong to this organization. ARES is part of the ARRL organization and there is no conflict in belonging to both of them. It certainly makes for a far more versatile, useful amateur organization if we can cross the lines between the two. Non-RACES hams, however, cannot be used in RACES tasks, however, since they are not enrolled and therefore not a part of the state's emergency organization.

ARES, however, does not have to wait for the state or the county's bidding to go and do its thing. It is available and able to go when the Section Emergency Coordinator calls on it and that, of course, depends on the needs expressed by local officials, the Red Cross, etc. as they see the need for amateur radio communications.

Therefore, we should be members of both of these emergency communications services. Included in this Scope are membership application blanks for both Services. Fill them both out (nobody needs to witness your signature on the bottom of the RACES form), and mail them to the address indicated on each form. When the next emergency comes along, you'll be happy that you joined both of them when you had the chance. Remember, non-members cannot be used by RACES.

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
 Trailer Van Motor Home
 Camper Jeep 4WD
 Tent
 Other: _____

PACKET:
 Drivers license Number: _____ State: _____
 Date of birth _____

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

15. Signed: _____ 16. Date: _____ 19.....

Remarks or limitations _____ 2-83 SD-INT
 Avbl for Red Flag Patrol
 Thos Bros map
 Binoculars
 Mag mt for ___ band
 Lgtr plug pwr cord
 Days off _____
 Y ! to:
 Arthur R Smith, W6INI
 4515 Melisa Wy
 San Diego, CA 92117



SAN DIEGO COUNTY SHERIFF'S DEPARTMENT

EMERGENCY PLANNING DETAIL

RACES

9150 CHESAPEAKE DRIVE, SUITE 152

SAN DIEGO, CA. 92123

(619) 694-3019



JOHN F. DUFFY, SHERIFF

R.E. SANDBERG, UNDERSHERIFF

RADIO OPERATORS REGISTRATION FORM

PLEASE PRINT:

FULL LEGAL NAME: _____
LASTNAME FIRSTNAME MIDDLE NAME

ADDRESS: _____ CITY: _____ ZIP CODE: _____

HOME PHONE: _____ WORK PHONE: _____

RADIO CALL LETTERS: _____

DRIVERS LICENSE OR CALIF ID CARD #: _____ STATE: _____

+++++
DISASTER SERVICE WORKER REGISTRATION AND LOYALTY OATH

PLEASE PRINT:

FULL LEGAL NAME: _____
LASTNAME FIRSTNAME MIDDLE NAME

ADDRESS: _____ DATE OF BIRTH: _____

HAIR: _____ EYES: _____

HEIGHT: _____ WEIGHT: _____

LOYALTY OATH OF AFFIRMATION

(THE EXECUTION OF THIS OATH IS REQUIRED BY STATE CONSTITUTION, ARTICLE XX, SECTION 3.)

I, _____, DO SOLEMNLY SWEAR (OR AFFIRM) THAT I WILL SUPPORT AND DEFEND THE CONSTITUTION OF THE UNITED STATES AND THE CONSTITUTION OF THE STATE OF CALIFORNIA AGAINST ALL ENEMIES, FOREIGN AND DOMESTIC; THAT I WILL BEAR TRUE FAITH AND ALLEGIANCE TO THE CONSTITUTION OF THE UNITED STATES AND THE CONSTITUTION OF THE STATE OF CALIFORNIA; THAT I TAKE THIS OBLIGATION FREELY WITHOUT ANY MENTAL RESERVATIONS OR PURPOSE OF EYASION; AND THAT I WILL WELL AND FAITHFULLY DISCHARGE THE DUTIES UPON WHICH I AM ABOUT TO ENTER.

I DO HERE-BY AUTHORIZE A NATIONAL AGENCY BACKGROUND INVESTIGATION.

SIGNATURE OF VOLUNTEER DATE

TAKEN AND SUBSCRIBED BEFORE ME ON _____, 199____, AT _____, CA.

SIGNATURE OF AUTHORIZED OFFICIAL TITLE

ANSWERING THE CALL

There are instances when no one responds to a call for assistance on the repeater. Don't be bashful. If there's a need for assistance, step in and do it - don't wait for someone else. If you are the calling station, I'm sure you're as quick as I to resent those who do not respond.

When calling for assistance on the repeater, stay cool. Be specific about the problem at the outset. Be sure you and the responding station have each others call signs. When some one responds, be clear and concise about WHAT the problem is (three-car accident with injuries), WHERE it is located (I-15 southbound, number 1 & 2 lanes, one mile north of Gopher Canyon Road off ramp). Once your information has been received, STAY ON THE FREQUENCY in case of questions from the safety service being phoned. Highway lanes are always numbered from the lane nearest the center (there's always a number one lane!). If you are the calling station, don't be too quick to give up the ghost and go to another repeater - sometimes I have to go clear across the house to get to the rig - I don't always sit, poised, mike in hand waiting for your call! But if I'm home and listening, I WILL answer your call. You too, please. Make your calls for help selective as the "promiscuous caller" soon gets old.

In phoning in an emergency to the CHP, 911 seems the fastest way to go. CHP responses to quasi-emergency calls on non-emergency numbers are not always happily responded to. 911 is supposed to be used for "felony in progress" or "life-threatening" emergencies, but the rule is: When in doubt, call 911. When using 911 let the responding party know you are an amateur radio operator reporting a fire, accident, felony in progress, etc. in a location other than yours as your phone number and address appears on the monitor at the responding safety agency. If you are in Oceanside reporting a fire in Vista, the call will go to the O'side FD unless you make it clear at the outset where the problem is located. Your response CAN save a life.

JOIN THE ARRL

You support your hobby by belonging to the PARC. The American Radio Relay League is the national entity to which you should belong. Who else lobbies for our wonderful hobby?

When joining/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 Treasurer Ron, WI6B. New ARRL membership application which include the PARC number (1703), garner the Club \$5 - and it doesn't cost you a fat farthing more!

A WORD TO THE WISE IS TOO MUCH

Not only the good guys (us) are listening to our daily chitchat on the repeaters and simplex. Anybody with a scanner (or a stolen ham rig) can monitor what we say. If it is announced on the air that you and your family are going to be away for a specific period of time it's simple enough for the bad guys to go and rip you off. So don't talk about it on the air. Friends and acquaintances should also remember not to be "Helpful Harrys" by telling those who call you on the air that you are gone for the day/week/month.

It has happened. The first W6NWX/R was stolen by a burglar who heard work crew members directed to the site on the air! There was no other way to find it except by luck as it was in the basement of a house and the antenna was hidden in the trees. Yet the burglar, KR0OK, drove to the site, broke into the house and stole the repeater and the homemade duplexer. To this day we are quick to veer away from the on-the-air question of the repeater location - even though we have a full time watchman in a near neighbor and have taken other security measures.

The point is: We have a lot of listeners out there and they are not all good guys! If you don't want the world to know, don't say it on the repeaters.

SURVIVORS' ASSISTANCE

Through its Survivors' Assistance Committee, the Club provides aid to survivors of Silent Keys in the disassembly and disposition of the SK's radio station and equipment. The Committee is made up of two or more club members, one of whom, preferably, is known to the survivor. The Committee makes contact and offers the Club's assistance.

Club members should make the Club's availability to assist known to their family. By letting the Club do it, the survivor is insured that the equipment will be disposed of in accordance with the wishes of the SK and the survivor(s); and that there is no need to listen to the many oh so helpful "friends" who are quick on the scene.

The Committee, will inventory the equipment, price it for sale, disassemble the station and dispose of it as requested by the survivor. The Committee reports to the survivor(s) and the Club.

SPECIAL DRAWINGS

ICOM MONTH



Special In-Store Drawing Each Hour!

GRAND PRIZE

IC-2SAT 2-Meter Mini-Handheld

Built-in Batteries · Convenient Keyboard
48 Memory Channels · 5 Watt Output Power
on 13.8V · 10 DTMF Code Memory Channels
Built-in Clock · Versatile Scan Functions
Variety of Optional Battery Packs for Longer Operation!



Refreshments

- Special Pricing!
- ICOM Personnel to demonstrate new products!
- Additional Gifts from ICOM!
- Technical support available!

Grand prize will be selected during one of the in-store hourly drawings! Deposit your mailing label to win.



Saturday, February 3, 1990
10:00am til 5:30pm
Burlingame (415) 342-5757

Saturday, February 10, 1990
10:00am til 5:30pm
Anaheim (714) 761-3033
Salem (603) 898-3750

Saturday, February 17, 1990
10:00am til 5:30pm
Phoenix (602) 242-3515
Oakland (415) 534-5757
Van Nuys (818) 988-2212

Saturday, February 24, 1990
10:00am til 5:30pm
San Diego (619) 560-4900
Atlanta (404) 263-0700
Woodbridge (703) 643-1063



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



TV., Cable & Radio Antenna Systems
Installation, Repair & Removal
Interference Resolution.

Antenna Specialties

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N6GZI
Edward Ross

The original
R-X Noise Bridge

SWR AND POWER METER

The
Tuner-Tuner™

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Palomar Engineers

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Escondido, CA 92025

AROUND THE WORLD OR AROUND TOWN
FULL-SERVICE TRAVEL PLANNING

LOREEN WILHELMY (N6RAO)
(619) 756-2388

TRAVEL VISIONS · Encinitas, CA 92024

PARC ENLISTMENT/REENLISTMENT APPLICATION

Mail form with \$\$ to PARC, P.O. Box 1603, Vista, CA 92083-0530 or hand to Jo, KB6NMK, at club meetings. Dues (including SCOPE) are \$12 a year plus \$9 for each additional 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. Consider paying for two or three years at a time. Call, name, and complete address are required. Telephone number may be unlisted in roster if requested. Other information requested below may be omitted if you feel uncomfortable providing it to the Club.

Call _____ Name _____

Expires _____ Address _____

Class _____ City _____ State _____ Zip _____

Old Call _____ Phone # _____ home _____ work _____ Other _____

Date 1st licensed _____ Birth date _____ Thomas Brothers location, page # _____ coord _____

Names & calls of family members in PARC _____

ARRL _____ RACES _____ ARES _____ Red Flag _____ Blood donor _____ Type _____ Comments: _____

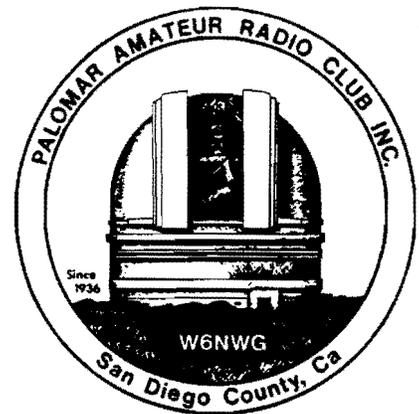
CONTINUATION

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W9FQW KASFP, N6GDB
30311 CIRCLE R LANE
VALLEY CENTER, CA. 92082



Scope

W6NWG

Palomar Amateur Radio Club Inc.

POST OFFICE BOX 1603, VISTA, CALIFORNIA 92083-0530

W6NWG / R 146.730 (-), 449.425 (-), 145.050 (Pkt). KA6UAI / R 147.135 (+). WD6HFR / R 224.900 (-)

VOL. XXV, NO. 3

MARCH, 1990

PRESIDENT:	Stan Rohrer, W6FON, Valley Center	749-0276
VICE PRES:	Jack Hanthorn, K6JM, Vista	598-0420
SECRETARY:	Nash Williams, W6HCD, Bonsall	728-3574
TREASURER:	Ron Wilhelmy, W6B, Rancho Santa Fe	756-3133
SCOPE EDITOR:	Ralph Crossman, K6HAV, Vista	727-5866

► **PALOMAR AMATEUR RADIO CLUB MEETINGS** are held on the first Wednesday of the month at 7:30 p.m. in the CAFETERIA at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido Ave. in Vista. Parking in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome. Meetings are NOT a function of the Vista Unified School District and are NOT sanctioned by the school district board of trustees. Tol' yuz, din't I?

► **CLUB MEMBERSHIP** is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first family member, and \$9.00 for each subsequent member at the same address. See application on last page. Membership/subscription matters, changes of address, P.O. Box 1603, Vista, CA 92083-0530. Material for Scope to PO Box 73, Vista 92083 by Wednesday, two weeks before the club meeting.

MARCH CLUB MEETING

The March meeting will feature Mr. Patrick Huberty of the Alexander Battery Company of Escondido who will tell us all about batteries and what his company carries. (Read the article on page 34 of March QST so you too can ask penetrating questions fraught with fruity import.

If you have an item for sale, put it on the Sale Table at the meeting, tagged with name, call and minimum price if any. The Club takes 10% and you go home me with \$\$ (you'll have to buy something to hold down the garage like W9FQN).

You might also think to bring some tasties for Mac, NH6EW, to put out for the ravening horde.

LATEST CALL SIGNS

The last amateur calls issued for the Sixth Call Area by the FCC on 2/1/90 were: AA6TX, KK6GE, N6XUD, KC6ILF.

SAN DIEGO FCC'S PHONE NUMBER

The FCC's San Diego Field Office is located at: 4542 Ruffner St, San Diego 92111; and the phone number there to talk to a person is 293-5478.

FEBRUARY CLUB MEETING

At the February club meeting, the minutes of the previous meeting and the Treasurer's report were read and approved. Committee reports were heard. Due to a cancellation of the scheduled program, many of us brought equipment and showed it and told (lies?) about it. The goodies were courtesy of those of us thoughtful enough to bring them. 65 attended and had a great time.

MEMBER INFORMATION

✧ **GNU CLUB MEMBERS:** Kevin Landel, N6XPP, Encinitas; Scotty Haskill KH6TL, Vista; Louis Albrechtsen, KG5FR, Vista; Leroy Kalandar, San Diego; Stephen Baum, Fallbrook. Welcome.

✧ **RENUDE:** John Albrechtsen, K16XJ; Joe Pevney, WA6MOS.

✧ **UPGRADED LICENSES:** Stephen Baum to General from no license; Dirk Reschly, N6SUN, to General from Technician; Mary Burgess, KB6NZA, passed the Amateur Extra Class written. Congratulations.

✧ **NEW CALLSIGNS:** Mark Moskowitz, AA6TR from KC6COD. Congratulations.

FORESAIL

Personal ads of members are free.

From estate of K16ZM: DGM MKB-2000 keyboard for sending perfect CW, has message buffers and many features, \$100. Brother HR15 LQ printer, \$150. Call Lloyd, W6TFB, 757-9374.

Color monitor CGA, like new, \$135 or trade; green mono monitor, composite, \$20. Call Bill, N6COU, 758-7163.

Package deal: Yaesu FT208R w/PL-encoder, rubber duck, FNB-2 10.8V 450 mAh xtra btry, NC-8 quick/trickle/standard charger, FGA-2 btry pack adapter, NC9-B wall charger (if your wall needs charging, here's the deal!), YM24-A spkr/mike, belt clip, manual, \$275. Call Earl, K6MXM, 743-0860.

Kenwood TS820-S w/500 Hz filt. and remote VFO820, new finals & Kenwood align., orig. owner, \$545. Hardwood desk w/no-mar top, great operating psn, 30"X60", \$125. Poucel Electronics single lever CW paddle w/heavy chrome base, \$20. Call Russ, WB6IOV, 436-6714 hp, 587-2204 wp.

GARAGE CLEANOUT!! FRG-7 gen. cov. rx, \$175; like new Kaypro II computer w/manuals & software, \$200; Heathkit lab scope O-11, \$50; McMurdo Silver FM/TV sweep gen, \$25; Hallicrafters S-40 rx, good condx, \$40; Collins 70E8 PTO ser #1, in cabinet w/dial, \$35; BC-348 WWII rx, \$50; RCA Radiomarine CRM-R1A rx, \$50; 2 CB rigs, Siltronix & Realistic CB rigs., offer; HV pwr supply 235 V @ 200 ma. or 1000 V @ 300 ma, on chassis, unwired, \$50; 750 VA AC line volt. reg., \$50. Call Curator George, K6YGK at the Radio Museum, 755-1014. Mint Kenwood TS-711 25W all-mode 2M base xcvr w/TTP mike. Call Allen, N7AMR, 434-5656.

Apple IIC+ w/color mon. & ext. 5¼" DD & int. 3½" DD, lots of software, new, never used, \$600. Never raced. Kenwood TW-4000A 25w 2m/450 mHz dual-bander w/tone encoder, \$350. Call Ralph, K6HAV, 727-5866.

Butternut HF2V 40 & 80M vertical ant., brand new (no sales tax!). Call Ed, N6GZI, 542-1405.

Kenwood TS-670 10W all-mode quad-bander, 40, 15, 10, and 6M, and general coverage rx. Call Ron, W16B, 756-3133.

Coax switches. Complete RTTY, CW, ASCII setup: AEA CP-1 Computer Patch, Vic-20 computer w/mon., Datasette, software, all manuals, \$100. Call Ralph, K6HAV, 727-5866.

Gas pipe 22' long 2 3/8" dia., 1/8" wall. Call Nash, W6HCD, 728-3574.

NOVICE SPECIAL! Instant 220 mHz station: Icom 37A 25W xcvr; Cushcraft 11-elm. beam & coax; CDR AR22 rotor w/contl. and cable; roof-top tripod w/10' mast; manuals and instructions; \$300 for the works. Butternut SC3000 scanner antenna, \$20. Bearcat 160 programmable scanner \$50. Call Mick, W6FGE, 222-3912.

Jennings UCSL 1000 vacuum variable capacitor,

\$40. Asst'd tubes all test good, \$1 ea. Call Dennis, N6KI, 271-6079.

MFJ Grandmaster Memory Keyer, \$75; Kenwood PB-21 battery, \$9; service manual for TS-530S, \$9; 80M add on coil for HyGain 14AVQ, \$9. Call Duane, AA6EE, 789-3674.

Tri-Ex W51 heavy duty, 51' free-standing, crank-up tower, \$550. Call Larry, W6QCA, 587-2226 WP, 582-4324, HP.

New, unused quad-band (6,10,15,20M) British-made 3 elm. mini-beam (boom is 9.5', longest elm is 10.75'). Call Lou, WB6CQA, 726-3572.

HAM STAMP PINS

The Club still has some of the nice amateur radio postage stamp replica pins for sale at \$5 a pop. See Ron, W16B or Stan, W9FQN.

☼ ARE YOU A PROSPECTIVE HAM? ☼

Interested in amateur (ham) radio and in the Palomar Amateur Radio Club? Want to talk to someone about it? You do? Then *contact in:*

Bonsall	Nash Williams, W6HCD	728-3574
Camp Pendleton	PJ Mead, N6UCJ	941-9162
Cardiff	Duane Stedman, WB6R	753-4821
Carlsbad	Eleanore Call, N6QJE	729-0850
Chula Vista	Betty Mahoney, KB6DGR	420-2277
Del Mar	George Uminski, K6YGK	755-1014
Escondido	Jo Ashley, KB6NMK	741-2560
Encinitas	Dave Copley, WA6HQM	753-260*
Fallbrook	Art Rideout, WA6IPD	728-683
Lakeside	Mac McBride, WB6GXR	561-2211
La Mesa	Roger Jaffe, N6UUW	697-6025
Leucadia	Bud Lincoln, KG6VX	436-9983
Oceanside	Lloyd Hunt, W6TFB	439-8227
Poway	Mark Schlessinger, N6NNI	748-8391
Ramona	Mike Fisher, N6MMP	789-2892
Rcho. Sta. Fe	Ron Wilhelmy, W16B	756-3133
San Diego	Dennis Vernacchia, N6KI	271-6079
San Diego	John Tentor, W6OLQ	672-3891
San Marcos	Floyd Harvey, W6JSP	741-8391
Solana Beach	Lou Broadbent, N6CKQ	755-9179
Valley Center	Stan Rohrer, W9FQN	749-0276
Vista	Ralph Crossman, K6HAV	727-5866

FLEA MARKETS

► The El Cajon ARC ham, computer, electronics swap meet at the Santee Drive-in theater, Woodside Ave at Hwy 67, Santee at 0700, first Saturday.

► The General Dynamics ARC swap meet on the 2nd Saturday in Cucamonga in the General Dynamics parking lot east of Haven on Fourth Ave, at 0700. Talk-in on 146.91 (-).

► The TRW ARC flea mart at the corner of Compton and Aviation Blvd. in Manhattan Beach on the last Saturday of the month at 0700. Talk-in on 145.32 (-), TRW repeater.

>>>>>>-- PRESIDENT'S MESSAGE --<<<<<<

###+++S.W.DIV.CONVENTION+++###

The SW Div Convention is August 24-26 at the Town and Country Convention Center in San Diego. Early Bird registration (before Apr 15th) will cost \$8.00 Advanced (Aug 10) will be \$10 and later \$12. As usual there will be: commercial booths, programs, etc. Be sure to sign up early so they can see how many to plan for and so you can save a few bucks.

###+++ HAM CALENDAR +++###

Mar 3	- Santee Swap Meet
Mar 3-4	- ARRL DX SSB Contest
Mar 7	- PARC Club Meeting
Mar 10	- PARC VE Testing
Mar 15	- PARC Exec Meeting
Mar 17	- EARS T - Hunting
Mar 24	- TASMA Mtg. KM RecCtr
Mar 31	- EARS VE Testing
Apr 4	Club Mtg. Carlsbad ComCtr

(Send calendar items to W9FQN)

###+++ NETS +++###

(2100 Hrs on 146.730 MHz)

The PERSONAL COMPUTER net is on Wednesdays and for the time being we will be operating without a net control so just come up on frequency and announce your interest in computers.

HAM HELP NET: Started Thursday, February 22nd. There will be discussions of Ham related problems such as antennas, power supplies, ham stores, swap meets, etc. If you have an amateur radio related problem, bring it to this net.

VE CODE NET: Started Friday, February 23rd. If you have time, please feel free to drop in on this net and check out your code speed.

SAN DIEGO COUNTY TRAFFIC NET (SDC-TN) needs net and assistant net controls plus liaison stations to SCNV (146.850 no PL) to the north of us each evening. Be sure to contact Joe-N6RVO, Chuck-N6TJT, and Rich-KI6ZH if you can help with these net activities. Remember that this is a training net for that GREAT EMERGENCY which is just

around the corner. We need amateurs who are trained in being NET CONTROLS and in message handling - AND THAT MEANS YOU!

###+++THE GREAT EARTHQUAKE+++###

Here come the Judge!

(Tues., Oct.17th, 1989 @ 5.04pm)
Richter Scale Magnitude: 7.1
Eng. generated: 100 20-K-ton bombs
Movement: 20 inches N/S & Up/Down
COMMENTS:

Are you prepared?

1st Protect yourself and family
2nd, Water in bathtub/containers
Turn off gas, electricity & water
Turn on when you get "all clear"
3rd, Check 146.730 for latest info
Help only when asked
Keep 146.73 & 145.05 clear for traffic and listen for ARES/RACES instructions from club officials.
Do not handle "health and welfare" type traffic until emergency is downgraded (outgoing 1st). This "jams" the system for emergency traffic which needs to go first.

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

CONTROL OPS by seniority: K6HAV, KB6AI, W6BIQS, W9FQN, WI6B*, KB5MU, KA6UAI*, N6UIA, & N6TJT* (*for both 146.730 & 147.130). Please contact these people if you have a problem on the repeaters. If you listen to the repeater quite a bit and would like to have your name considered for being a control operator, please contact me, W9FQN.

Larry-WQ6V at the February meeting took a NO CODE vote and it lost about 30:10. Guess there are some who really do like the code although there were some "boos" when it was suggested that at renewal time you should have to take a test on code! We had a rather interesting discussion.

I just filled out the ARRL annual club report form. Approximately 2% of our club members are not licensed (not able to vote) and 67% are ARRL members. We have listed our club specialities as:

Public Service and emergency (ARES-RACES), general purpose, and repeaters. We also support Packet radio and microwave in San Diego County.

Last call on picking up a free manual for the GONSET Sidewinder 900A and the Heathkit Monitor Scope, model SB-610 (copying cost). Contact W9FQN.

ARES/Data is a multi-connect, multi-port generalized database accessible via packet radio, with a full-featured conference bridge for use with a wide variety of emergency and public-service amateur radio situations. It allows you to track any type of information as needed that can be organized as four 20-character fields plus an 80 character message for each record. Can be used to track: victims in a multi-casualty incident, ham manpower availability assignments, record evacuees and shelter enrollment, track floats, message database, house-by-house damage assessment, DX spotting, etc. and features to humerous to mention. If you would like to see a copy, check with me (W9FQN) at the next club meeting. It requires an IBM PC, DOS 3.2+, 400 KB mem, two drives or one plus fixed memory, RS-232 serial port or DRSI PC*PA packet adapter, and WABDED firmware for the TNC-1, TNC-2, or the AEA PK-87 or PK-88. The remotely connecting packet stations may use any AX.25 TNC. In Compu-Serve's HamNET it is in library nine as ARESDA10.ARC and can sometimes be found in amateur BBS's. I have ARES/Data Version 1.1.

If you are tired of junk mail, contact the Direct Marketing Association, 6E, 43rd St., New York, N.Y.10017, and tell them to put a stop to it.

Pete-KNOE, a former student of mine 33 years ago, is on Johnston Island and operates CW on 14.025, and 21.025 at 2145-2215 UTC and on

28.025 or 28.495 at other times. If you like CW and have "the license", be sure to send him a HELLO from W9FQN. You might also find out when his DXpedition is this Spring and what rare island he will be operating from.

If anyone is interested in "clear" address labels with black lettering, you can order them through me (W9FQN) at \$7.00/1000. These are smaller than the ones mentioned in the SCOPE (white lettering) by me last year. I use these tags on my radio gear (outside and inside covers) and on items that I loan out. When you get tired of sticking them on your equipment you can use them for address labels and they will look like black printing on your envelopes with any color underneath showing through the clear plastic. A copy of the printing is shown below:

**Stanley and Barbara Rohrer
W 9 F Q N K A 6 F P S
30311 Circle "R" Lane
Valley Center, CA 92082-9423**

Limit of 26 spaces and 4 lines.

Remember that base stations should try to restrict the use of the repeaters during MOBILE TIMES: 6:00-7:30 a.m. and 4:00-5:30 p.m. Although we do confess that it is nice to have "base" stations available at these times to report accidents on the road. Mobile stations who are on the road for long periods of time need to be careful of monopolizing the repeater systems - which is easy to do as you "drift" from one contact to another. Remember to leave time to invite others to join your conversations. One should probably leave a little more "space" during the noon hour for those needing to make contacts: 11:30-12:30.

Craig-NGATQ did it again! He located a stuck transmitter on 146.130 on 1-23-90 in Escondido in about 30 minutes. It was a mic jammed against the transceiver by a stack of books that needed to be pushed from the edge of the desk.

Sometime ago Larry-WQ6V found a car transceiver in Escondido stuck with the microphone on the front seat and a stack of records on top of it. Craig found another mic on the front seat of a car with the center arm rest resting on it. I found one in Fallbrook jammed between the front two seats of a car driven by a person without an amateur radio license.

On the Sunday morning ARES net which meets at 8:30 a.m. we have the following amateurs who have had over 100 check-ins as of 2-20-90: *NGENI (134), KB6NMX (131), N6NZX (131), KB6NZA (131), N6NAU (124), W6JSP (122), W6BHE (119), *N6PRC (114), N6AT (111), W6HCD (111), W6BHF (109), N6ISC (107), N6QJE (105), W6HFE (104), W9FQN (101), and KE6BH (100). The "*" indicates non-club members. We thank you for your dedication to the ARES net. If you have time Sunday mornings, please feel free to participate in this net which gives the latest ARES/RACES news, ARRL bulletins, and local weather information when there is a change in the weather. The net will miss Dora-KE7DR who will be moving back to Arizona for health reasons by the end of February. She had 31 check-ins and was quite faithful during the time she was here with us. We will miss you Dora! She will be living at 620 N. Litchfield Rd., Apt.343, Goodyear, AZ 85338, and look for her on 146.940.

Because of a change in RACES policy, the Palomar ARC will probably be recommending that all ARES members become RACES members so that they can be covered by insurance when called out by RACES. The change in policy is that as a RACES member you do not need to participate or be active in RACES drills but you would remain on their roster so that in case of a bad emergency you would be covered by insurance if called out to help. More information on this later.

Club members are reminded that the link on 147.130 (K6GUA) is

operated under a Tech call and until we can be shown differently, this link can only be activated and shut down by a General Class license or higher although a Tec. could use the link if he found some higher class license to activate it for him. For the present, the 10M transceiver will use the call letters of W6NWG and you will need to identify it as such according to FCC Rules and Regulations. You might encourage Erik to get a General Class license! The auto-patch on 147.130 is a "private" patch used by Erik.

Sometimes one hears what sounds like packet on our voice repeaters. The odds are that it is not packet but Kenwoods Digital Coded Squelch (DCS or DCLinking). The voice transceiver sends out a digital packet (DCS) with coded information: call letters of caller, who they are calling, suggested frequencies of where they should meet, etc. The FCC says that no voice identification is needed (it is in the DCS) but PARC would like to have you give your call letter after making a call. It is really a neat system since you do not listen to the repeater until your call letters are received (or your group call-up code) and then the person making the call can switch your transceiver over to another repeater (frequency) automatically without you touching any buttons. Remember, what you hear is not really "packet radio" but the Kenwood DCS information superimposed on each of their radio transmissions.

If you know someone over 80 years old or celebrating their 50th(+) wedding anniversary and would like to have a card sent to them from the President, write to: The Greetings Office, The White House, Washington, D.C. 20500. Be sure to include reason (birth-marriage), complete date, complete address, your name and telephone.

The address of Gorbachev is Mikhail S. Gorbachev, President of

the Soviet of the U.S.S.R., The Kremlin, Moscow, U.S.S.R. You might send him a "best wishes" or a "good luck" card. His birthday is the end of February.

We are looking for someone with a VCR who would like to make a Video of Field Day this year ... from start to finish. This would be used in club training programs. We could use several photographers if there was some way of putting their efforts together with some sort of editor. Any ideas? We also need to copy some video tapes that we now have. (W9FQN)

A recent ARRL publication said the following: "Mention of lotteries, prizes or games of chance, in violation of US Postal Regulations, is prohibited in ARRL publications. An exception is made in the case of door prizes if it is clear from the advertising copy that there is no requirement to purchase or provide any other consideration to be eligible for prizes. Mention of prizes in Hamfest or Convention advertising is prohibited if a charge is made for admission." This means you can't mention the selling of tickets for a lottery (raffle) which many newsletters we receive seem to indicate is being done. It looks as if you could loose your mailing permit and possibly be subject to other penalties.

###+++ HELP NEEDED / WANTED +++###

Take a good look at this list and see if can HELP the club out with these items:

- Members who can send computer CW over the repeater for Friday nite code practice.
- The TACO WAGON (Trailer) needs several windows, inside lights, outside running lights, some inside AC & DC wiring, & leveling jacks.
- A 220 rig for a packet port. Xtal is ok.
- 450rptr technician to help WB6IQS.
- 4 to 5 pipes 18-24"L, 1.5-2" dia. These are for FD tire stands.
- 40+' Al. tower or crankup for FD.

- Fire extinguisher for trailers.
- Painter for inside of trailer.
- Painters for outside of trailer.
- Our ARES/RACES house trailer now has new tires and is ready to roll as soon as we can find a universal way of connecting up the turn lights to all types of vehicles. Anyone have any good ideas?
- Tower climbers.

###+++ PRIVATE LINE (PL's) +++###

Looks as if more and more VHF/UHF rigs are coming out with DTMF/PL encode and decode (ie. IC-2SAT). Our 146.730 repeater has a 3A (127.3) subaudible on its output so that you can decode this PL in your rig to open your squelch so that you only hear the PARC repeater on 146.730 and not the other 3-4 that you can hear on this frequency from time to time. So far the club has been able to resist requiring you to put a 3A PL on your rig to access 146.730 but the circuit is in the repeater and can be inserted with the "throw" of a switch. How many of you have PL capability? The IC-2SAT can be set up to not open its squelch until a special three digit DTMF code is received.

At the last Executive meeting we voted to give the Control Ops the option of putting the .73 repeater on PL (input) during special periods of interference.

Communications Specialists sell the ComSpec SS-32P PL encoder for \$28.95 and the small SS-32SMP which fits in almost all HT's for \$27.95. These units require only three wires to hook them up and will fit in almost any HT or mobile unit.

The Escondido Amateur Radio Society (EARS) 146.880 repeater will be using a PL 2A (114.8 Hz) and the Fallbrook repeater on 147.195 is using a PL 2A (114.8). It would have been nice for them to use the Palomar ARC PL 3A (127.3) since we have many club members in common and there is no RF conflict that I am aware of at present with these repeaters.

I have a free instruction sheet for the TE-12P subaudible tone encoder which I will give to the first one who needs it.

###+++T-HUNTING+++###

The following club members are currently CERTIFIED DFing personnel in the club by having demonstrated their ability to track down "hidden" transmitter signals:

K86NMM, W6ILH, W6SAX, N6GZI
W9FQN, N6UIA, W6DFWE, K6GAI
W6BIQS, W6SAX, N6QDB

If we have left anyone out or you would like to be a certified Dfer and you have an HT or a rotatable beam at your QTH, please contact me to see about getting your name added to the list.

###+++ WORK PARTIES +++###

1-29-90. Benton-N6MVZ, Eleanore-N6QJE, and myself (Stan-W9FQN) visited the Carlsbad Emergency Communications Center and put up a 80-40 meter trap dipole. It still needs a center support (15-20'). We are still looking for a folding chair that Benton and I were using on the roof. It suddently disappeared while Eleanore was distracting Benton.

***+++ T H A N K S T O ***

- Ray-KK6CA for making up many code tapes for us to use in our code practice classes and on the 146.730 repeater Friday evenings at 9:00 p.m.
- Steve-N6RUV for a nice letter about NO CODE.
- Paul-K85MU and Dennis-N6KI for getting the club's portable packet station back to us for possible trailer installation.
- Eleanore-N6QJE for providing us with information on "depreciation" of "ham equipment". Hope we can talk the IRS into accepting it.
- Leona Wallace-WA6OHB for lots of pictures at Christmas. She appears to be doing a lot of traveling.

73, de Stan, W9FQN

EXECUTIVE COMMITTEE

The executive Committee, consisting of club officers and Chairmen of its committees, meets at 7:30 p.m. on the second Thursday after the club meeting. The March meeting will be at the home of K16JM.

At the February meeting at the home of , the minutes of the last meeting and the Treasurer's Report were probably read and approved. The Committee's activities are chronicled in the "PRESIDENT'S MESSAGE".

A grand time was had by all - probably.

VOLUNTEER EXAMINER PROGRAM

At the February tests our very busy PARC VE team gave 18 test elements to 11 applicants, seven of whom passed a total of 13 elements. Congratulations to club member Stephen Baum who made it to General from no license; and to Mary Burgess, KB6NZX, who passed Element 4B, the Amateur Extra Class written element.

Our test crew was: K16JM & KE6VX reception & processing; WB6R, CW exams; N6NNI, W6TFB, and W6YYV examiners; and paperwork by N6RUV, AA6OM, and K6HAV. de K6HAV

▶ FCC LICENSE EXAMINATIONS in north county are conducted by the PARC VE Team, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month at 10:00 a.m.

▶ Examinations are also given on the 1st Saturday in El Cajon, the 3rd in Normal Heights, the 4th in Chula Vista, and, in Escondido at the SDG&E building on Nordahl (this location changes in April to the New Life in Christ Church, 300 Broadway), by the Escondido Amateur Radio Society (EARS) on the last Saturday in Escondido. Information on all SANDARC-VEC-sponsored exams is available by phoning 465-EXAM.

▶ 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, Post Office Box 2446, La Mesa, CA 92044 10 days before the test date. Bring ORIGINAL licenses and Certificates as well as a copies which you mailed. Questions: Call Ralph Crossman, K6HAV, 727-5866.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLO, who is very finicky and requires, not only money but, that you let him in on your name and call sign for your very own badge - like the big guys.

John has badges for: KC6AST, KC6BIM, N7EQU, WB6NVX, WA6QGC, WB6RWF, N6UZG.

If you don't want to pay full tab for your very own badge, John can make you a real deal on an unclaimed one.

WANTED

ICom IC-30, 30A, or like xtal-contld/very basic syn. 450 mHz xcvr. Call Jerry, WB6FMT, 758-4388.

20A pwr supply, 300W ant. tuner, ham logging computer program. Call Duane, AA6EE, 789-3674 4-5 elm. 10M beam; low pwr (100W) linear amp w/low drive reqrd, for 10M FM, prefer 12VDC equip. Call Mick, W6FGE, 222-3912.

Yaesu FL-110 1000 watt 80-10M amplifier or equivalent. Call Dan, KD7HQ, 789-0943.

Working Icom IC-22A; Sony Pro-80 or Panasonic RFB-65. Call Dennis, N6KI, 271-6079.

PARC REPEATERS

Three repeaters, two W6NWG/R, are owned and operated by the Club. One has an input of 146.130 mHz and an output of 146.730 mHz. Input for another is 444.425 mHz and output is 449.425 mHz. The third, W6NWG, is a packet digipeater on 145.050 mHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users.

Co-located with W6NWG/R is KA6UAI/R, 147.130 (+) which too is available to PARC members. Its use as a W6NWG/R overflow machine is encouraged. It will have battery backup - reeael soon?

The 220 Club of San Diego welcomes PARC members on WD6HFR/R, its 224.900 mHz repeater, co-located with W6NWG/R. It too has battery back up. Feel free to use it. If you find it useful, it wouldn't hurt to help support it by joining the 220 Club. Many of us have.

▶ THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS is to *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. Try to hear the interfering signal on the input of the repeater and determine the source direction.

DISCOUNT PRICES ON 1990 CALLBOOKS

Group prices on 1990 Callbooks and ARRL Handbooks are available. The \$28 North Amer. Callbook is \$23.50; the \$30 International Callbook is \$25.50; or both for \$46. The \$23 1990 ARRL Handbook is \$18.75 and the \$18 Antenna Book is \$15. Add sales tax. Call Duane, AA6EE, 789-3674.

SURPLUS GOODIES of the electronic persuasion at:

▶ Alexander Battery Co. West, 520 State St., Escondido, phone 480-4445. has HT batteries and others.

▶ Aluminum, brass, copper, stainless steel, etc. at Escondido Sales, 1428 Mission Rd., Escondido.

▶ Electronic, mechanical, computer parts, etc. at Industrial Liquidators, 683 S. Rancho Santa Fe Rd., San Marcos; and 4887 Convoy St., San Diego, and Gateway Electronics, Chesapeake.

AIRPORT 90

By Chuck Dowling Jr

It was just after midnight as the two Cessna 172 Turbos made their way through the stormy night. The wind had picked up dramatically in the last hour or so, and was blowing around 75 knots. Chuck strained his eyes trying to see his friend Scotty's aircraft in the black night.

What started out as a sunny afternoon flight over New York City had somehow turned into a nightmare. Chuck and Scotty were both experienced pilots, having logged many hours of flying time in all kinds of aircraft, and had seen some dog fighting action in military jets like the F14 Tomcat, F18 Hornet, and the F16 Falcon. They had been up for hours, both extracting maximum pleasure from the simple joy of flying. Both pilots were Hams and both craft had 2 meter gear installed as well as the latest in electronic navigational equipment. Chuck, KI6TG, and Scotty, N6TRI were in constant communication on an FM simplex frequency.

Without warning, what was calm weather suddenly turned ugly. Chuck and Scotty were flying at about 10,000 feet over the Atlantic and about 50 miles from shore. A weather check earlier provided no warning of the gale force winds which were starting to blow off shore, pushing the two tiny aircraft further and further out to sea. Even at full throttle, the tiny Cessna engines were unable to gain much headway flying into the wind. The pilots talked about trying to fly around the weather, but fuel was rapidly becoming a critical situation. They talked of what they would do if forced to ditch at sea. Survival did not seem possible under such conditions.

Then, an already bad situation turned worse. It began to rain and within minutes, turned into a major thunderstorm, with driving rain and lightning flashes reducing visibility to near zero. Chuck quickly lost sight of Scotty's Cessna, and there was now an added danger that the two aircraft might collide in midair. Both pilots were becoming extremely fatigued, and instruments and dials no longer made much sense. At one point, Scotty found himself flying upside down! Distance measuring equipment showed the aircraft were now separated by 50 miles or so, each one being blown in different directions by the gale force winds.

Chuck had somehow managed to claw his way back to the coastline, where he was able to find the immense and well lit Kennedy International Airport. Chuck would later state that it was the worst landing he had ever hoped to make. Chuck sat in his Cessna just off of runway 31L and told Scotty that he would wait for him to get back in no matter what.

It was now 2:55 am. Scotty's aircraft had been blown even further out to sea and he had about 10 minutes of fuel left. Different wind patterns seemed to spell different fates for the two pilots. Chuck, barely able to stay awake now, asked Scotty for a position check partly to keep awake, and partly to make sure Scotty was still airborne. Scotty's transmission was fading now as Chuck listened to his final transmission: "Hey, why don't we shut these computers down for the night, and get some sleep!"

The previous scenario is an account of a computer flight simulation by Microsoft that allows multi-player flight using a modem. Various conditions such as wind, clouds, thunderstorms and time of day may be set by the user. It is very realistic, and one of the most enjoyable pieces of software I have ever used. (The reason Scotty was lost at sea is that he accidentally set the wind factor to 200 knots instead of the 75 knots I had set. Try flying a Cessna in that breeze sometime!

CLUB-SPONSORED NETWORKS

THE NORTH COUNTY TRAFFIC NET meets nightly +on 146.730 MHz (-600 kHz) at 2000 local to handle formal written traffic. Visitors are welcome. Net Manager: Marnie Parker, KB6PCF.

THE NORTHERN DISTRICT, SAN DIEGO SECTION AMATEUR RADIO EMERGENCY SERVICE (A.R.E.S.) NET meets on 146.730 MHz each Sunday at 0830 to provide A.R.E.S. and emergency and public service planning information to members of the Service. Visitors are welcome when called for after the member roll-call.

THE SAN DIEGO COUNTY MICROWAVE NET meets on 146.730 MHz each Monday at 2100. This net is to disseminate microwave information and is open to the old timer and the beginning microwaver. All are welcome. Kerry, N6IZW, is net control station. If you can't check in, at least give them a micro wave as you pass by.

THE SAN DIEGO COUNTY PACKET RADIO VOICE NET meets on 146.730 MHz each Tuesday (except the 2nd Tues. of the month) at 2100. This net is to provide information on Packet Radio for the beginner and the advanced packeteer. All are welcome. Paul, KB5MU, is net control.

THE SAN DIEGO COUNTY PERSONAL COMPUTER NET meets on 146.730 MHz each Wednesday evening (except for the 1st Wed. of the month) at 2100 to share information on computers. Chuck, KI6TG, is NCS, and he welcomes those with problems, information, questions, solutions, any PC - it doesn't have to be an IBM compatible.

EARS T-HUNTS

The Escondido ARS (EARS) sponsors a T-hunt on the 3rd Saturday of the month at 0930. Assembly point talk-in at 0900 on 146.88 (-). The hunt frequency is 146.565. The hidden transmitter is within 10 miles of the start. New folks may ride along a time or two to see how it is done.



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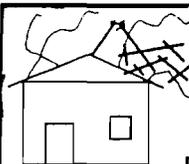
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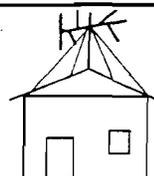
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PARC ENLISTMENT/REENLISTMENT APPLICATION

Mail form with \$\$ to PARC, P.O. Box 1603, Vista, CA 92083-0530 or hand to Jo, KB6NMK, at club meetings. Dues (including SCOPE) are \$12 a year plus \$9 for each additional 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. Consider paying for two or three years at a time. Call, name, and complete address are required. Telephone number may be unlisted in roster if requested. Other information requested below may be omitted if you feel uncomfortable providing it to the Club.

Call _____ Name _____

Expires _____ Address _____

Class _____ City _____ State _____ Zip _____

Old Call _____ Phone # _____ home _____ work _____ Other _____

Date 1st licensed _____ Birth date _____ Thomas Brothers location, page # _____ coord _____

Names & calls of family members in PARC _____

ARRL _____ RACES _____ ARES _____ Red Flag _____ Blood donor _____ Type _____ Comments: _____

----- DOTTED LINE -----

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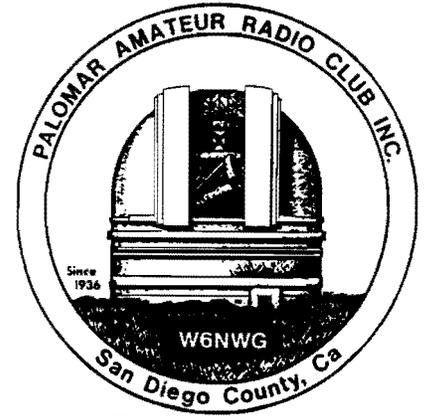
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W6NWX

Palomar Amateur Radio Club Inc.

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W6NWX/R 146.730 (-), 449.425 (-), 145.050 (Packet). KA6UAI/R 147.130 (+). WD6HFR/R 224.900 (-).



VOL. XXV, NO. 4

APRIL, 1990

PRESIDENT:	Stan Rohrer, W9FQN, Valley Center	749-0276
VICE PRES:	Jack Hanthorn, K6JMJ, Vista	598-0420
SECRETARY:	Nash Williams, W6HCD, Bonsall	728-3574
TREASURER:	Ron Wilhelmy, W6B, Rancho Santa Fe	756-3133
SCOPE EDITOR:	Ralph Crossman, K6HAV, Vista	727-5866

► PALOMAR AMATEUR RADIO CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the CAFETERIA at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido Ave. in Vista. Parking in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome. Meetings are NOT a function of the Vista Unified School District and are NOT sanctioned by the school district board of trustees. Tol' yuz oncet, tol' yuz a hunnert times.

► CLUB MEMBERSHIP is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first family member, and \$9.00 for each subsequent member at the same address. See application on last page. Membership/subscription matters, changes of address, P.O. Box 1603, Vista, CA 92083-0530. Material for Scope to PO Box 73, Vista 92083 by Wednesday, two weeks before the club meeting.

APRIL CLUB MEETING

The April meeting at the Carlsbad Faraday Safety Center, will feature John Talbit of the Office of Emergency Service, who will tell us about the Radio Amateur Civil Emergency Service (R.A.C.E.S.) and it's place in the emergency communications picture.

To get to the Safety Center, go north on El Camino Real from its intersection with Palomar Airport Road. Turn right on Faraday Drive about 3/4 of a mile north at the first stop light) and follow it about one-half mile to the Safety Center

If you have an item for sale, put it on the Sale Table at the meeting, tagged with name, call and minimum price if any. The Club takes 10% and you go home me with \$\$ (you'll have to buy something to hold down the garage like W9FQN).

You might also think to bring some tasties for Mac, NH6EW, to put out for the ravening horde.

LATEST CALL SIGNS

The last amateur calls issued for the Sixth Call Area by the FCC on 3/1/90 were: AA6UH, KK6HJ, N6YBR, KC6JCV.

LOCAL FCC'S CORRECT PHONE NUMBER

The FCC's San Diego Field Office is located at: 4542 Ruffner St. San Diego 92111; and the phone number there to talk to a person is 557-5478, according to June Butler who handles public affairs for that office. June proves that somebody does read this thing. We appreciate her bringing us up to date.

MEMBER INFORMATION

☺ GNU CLUB MEMBERS: Steve Miele, W2MRM, San Diego; Jim McConahy, WB6NUV, Poway; Jim Rugg, W6DVZ, Vista; Thomas Graham, WA6GID, Oceanside; Joe Lepine (awaiting license), Vista. Welcome.

☺ RENUDE MEMBERS: Alma Bourhenne, KE6HE.

☺ UPGRADED LICENSES: Jack Newlove, KK6FC, to Amateur Extra Class. Steve Baum, awaiting first license to Advanced and passed 20 wpm CW; Phil Normington, WD6HFI, to General; Linda Rohrer, daughter of W9FQN, to Novice; Jim Franklin, KF6QH, Extra Class written. Congratulations.

☺ CORRECT ADDRESS NEEDED: For Jim O'Hara, W4OYN, by Jo, KB6NMK..

PRESIDENT'S MESSAGE

###+++ HAM CALENDAR +++###

- Apr 1 - ARRL Dues Increase
- Apr 1 - ARRL Refunds Dues to married members with antennas
- Apr 4 Club Mtg. Carlsbad ComCtr
- Apr 6-8 - DX Conventon/Visalia
- Apr 7 - Santee Swap Meet
- Apr 8 - Repeater Site Work Party Palomar Mt or 15th if bad weather
- Apr 10 - SANDPAC mtg(Packet)
- Apr 10 - Co.Property Tax Due
- Apr 12 - PARC Exec Meeting
- Apr 12 - Hubble Space Telescope up with shuttle Discovery
- Apr 13 - Computer Time Bomb
- Fri 13th computer virus strikes
- Apr 14 - PARC VE Testing
- Apr 15 - State+Fed Taxes Due
- Apr 15 SWDiv EarlyBird due \$8
- Apr 16/19 - Novice Class->Extra Poway Rec Ctr 7pm
- Apr 21 - EARS T - Hunting
- Apr 28 - EARS VE Testing
- May 2 - PARC Club Meeting
-
- Jun 23-24 - ARRL/PARC FIELD DAY
-
- Aug 12or19 - Palomar ARC Picnic (Send calendar items to W9FQN)

###+++ EXEC MTG +++###

The April 16th meeting was held at Jack-KI6JM's QTH. Club members are invited to attend the Executive Committee meetings and express their concerns on club actions, non-action, and suggested direction. Meeting locations are moved between Executive Committee member's QTHs. This year they are held in Vista, San Marcos, Rancho Santa Fe, Escondido, Valley Center, and Bonsall. We certainly do welcome your input.

ATTENDING: (6)

Stan-W9FQN (Pres), Jack-KI6JM (VP), Nash-W6HCD (Sec), Ron-WI6B (Treas), Jo-K86NMK (Membership / Graphics), and John-W86IQS (Repeaters)

DECIDED:

- 1)Next club meeting at Carlsbad

Emergency Center (April 4th), 2)Buy Motorola units (\$200 total), 4) Antenna trailer items (\$-20), 5)Buy VCR tapes (\$-20) for Charles-NGSTEP's FD project, 6)Travel expenses for some Club speakers, 7)Next Exec Mtg at KI6JM, 8) Bud-K86SVX appointed Field Day Chairman, and 9)July Club meeting will be changed from July 4th to July 11th for obvious reasons.

DISCUSSED:

1)Building at repeater site and received plans from W86IQS, 2)Field Day crew putting on the June program, 3)Membership and attendance, 4)220 Club, their rental, and possible desense of their repeater when 146.730 and 147.130 are on the air, 5)Programs, 6)Changing the PL for our repeaters to that used by RACES, and EARS with the Fallbrook to follow (114.8Hz), 7) Romona ARES group using 146.730 for ARES drills, and 8)Repeater site work day April 8th.

TO BE DISCUSSED:

FD, ARES, RACES, Building, Vista Communications Center, EARS use of trailer, publicity, etc.

###+++ MEMBERSHIP Etc. +++###

Dues are \$12/yr starting in August (08-01-90) and and this figures out to be \$1/per month. Most members have their SCOPE label stamped 9007 which means that your membership runs out July 31, 1990. Even though it reads 9007 you still get the 9008 SCOPE since that SCOPE is produced in 9007 and pre-dated to 9008 - I hope that this is clear!

A few of you joined at sometime other than August paying \$12 (the wrong amount). If possible, we would like to get you back in step so that your dues run out July 31st like most members.

To get you back in step with everyone else we would like to suggest that you try to correct your payment so that your membership ends on 9107 or 9207.

Check the date below to get your years membership to coincide with the club year ending in July.

9004 \$15	9012 \$ 7/19
9005 \$14	9101 \$ 6/18
9006 \$13	9102 \$ 5/17
9007 \$12	9103 \$ 4/16
9008 \$11	9104 \$ 3/15
9009 \$10/22	9105 \$ 2/14
9010 \$ 9/21	9106 \$ 1/13
9011 \$ 8/20	9107 \$ 12

Some of our members pay ahead several years (yrs X \$12) which helps everyone: Ralph-K6HAV, dosen't need to pick up your mail; the membership chairwoman, Jo-K86NMK, doesn't need to mess with your 3x5 card and write you sweet notes; Ron-WI6B doesn't need to record your dues again and run to the bank with it; and Bill-N6COU doesn't need to activate the GIANT COMPUTER to update your records - and you don't miss an issue of the SCOPE!

A few members are paid ahead several years: N6FMK-9307, K86FY-9407, and W6HW-9507. I see lots of 9107 and 9207's. When it is time for you to pay your dues, please consider paying several years ahead to help us all out. Some of the repeater groups charge 50-200% more per year for membership than we do and we support a "total" club program.

Remember that you receive (1) ticket on August 1st, and (1) ticket for each of the following meetings when you attend: club meetings, Field Day, and club picnic. Usually a member receives about 14 tickets if s/he attended all events. Club officers do not receive tickets for executive meetings. Your tickets are used in the club drawing at the picnic each year for prizes which you could possibly win - if you attend club events.

Be sure to encourage your ham friends to join PARC and support amateur radio. When on our repeaters, ask your compadre if

s/he saw something in the SCOPE to see if s/he is a member - and then invite them to support the club thru membership if s/he doesn't receive the SCOPE. Remember that our club has certain "fixed" expenses and when they are spread out over more members it "releases" extra money which can be used on club projects.

If they only use the repeater and can't come to club meetings, they should still feel an obligation to be a club member: repeater operation is not free and one does not need to attend meetings to be a member. Remember that our repeaters are for club members, OCCASIONAL TRANSIENTS, and visitors to the area. According to the ARRL in the repeater HANDBOOK, anyone using repeaters on a somewhat regular basis should feel an obligation to support the repeaters in our bunker: 145.05, 146.730, 147.130, 449.425, and 224.900.

###+++ ARES 8:30 SUNDAY NET +++###

The question has been asked as to why we take "early checkins". In looking back through the roster it looks as if we average about 0.3 early checkins per session which certainly is not excessive. The purpose of the net is for ARES personnel to maintain a list of amateurs in the North County area who are aware of ARES and who have current two meter capability. Other ARES nets check on SSB and CW availability. We also want to provide amateurs with the experience of being a net control so that we will have amateurs with at least some experience in handling a net.

Those checking in early are advised of any important bulletins before leaving the frequency. Many or most of the bulletins read are reminders of operational procedures and general information so it is not a disaster if they are missed one week. These bulletins are read 3-5 times during the year

and we check them off as they are read so that they are not read too often.

This net is not a military net and checking in is voluntary so we cannot enforce strict military net discipline such as you have in the "captive" military nets. We handle no traffic but do encourage members to take "practice" traffic to our traffic nets which meet each evening of the week.

We keep track of the number of times that each member checks into the net so that by looking down the roster we can see who is interested and faithful. In times of emergencies we might have to pull up every operator that we can and our rosters give us a place to start looking for operators. The only recognition given for checking into the net is for the member to hear his name called on the roster, and from time to time hear how many "checkins" he has accumulated. The only award you get for 100 check-ins is hearing your name over the air, seeing it in the SCOPE, or seeing it ingraved on the wall in that great big ham shack in the sky above the ionosphere.

###+++ SALE ITEMS +++###

The following items are presently for sale:

Atlas - Receiver -110A,80-10
ATV monitor
Audio Amps - all types
Broadcast FM receiver
Books - all types, radio, science, math, computer,
Bumper hitch mount for ant.
Cable - 8w + shield,computer
Capacitors - all types
Catus shoots - all kinds
Chokes - all types
Coax - 72 ohm double shield
Coils - all types
Commodore VIC-1525 printer
Computer - VIC-20,monitor,CW
RTTY, programs, games
Computer magazines - BYTE
Crystals all types,frequency
Fruit - limes, grapefruit,
Generator, diesel (2)

Guy rope -5/16" 1790# 12C/ft
3/16" 770# 8C/ft
3/32" 260# 4C/ft

Hand keys / automatic for CW
Headsets - all types
Heathkit - Daisy printer
Heathkit - Grid dips
Heathkit - theory courses
good for self study
Hyundai car bra, black
Iceplant - all kinds
Insulators - non antenna
Irrigation supplies - drip,
spitter, hoses, connectors,
spinners, metal spitters
Johnson - novice CW xmtr
Knobs - all types, sizes
Magazines - 73, QST, CQ, Ham
Computer, Radio, etc.
Metal boxes - all types
Meters - all types: V, A, Ma
Microphones - all types
Military receivers, various
Oscilloscope
Palm tree seedlings
Parts bins with boxes
Radiomarine rcvr 15-600 KHz
Record player for kids
Rectifiers - all types,Tu->D
Speakers - all types, Sm->L
SWR meters - all types
Tape recorders - all types
Telephone pole steps
Tempo S-5 HT - needs work
Test instruments - all types
Transformers - all voltages
up to 3,000 volts, .5A
Tubes - all types
Tube tester
Typewriter, portable
Vertical antennas, 80-10

Please check with W9FQN for availability, condition, and price. Some atems are "as is", others need "check out", and some are in perfect condition. You would be surprised at the "high class" items we store in our warehouse!

###++ Escondido A.R.Society ++##
Harry-WAGY00 (PARC/EARS) is looking for volunteers to operate a HF station and 2-meter HTs to cover a bicycle race. If you can help Harry, please give him a call. He usually is on the repeater evenings

coming home from work. Harry is doing this thru EARS but they would appreciate PARC help.

EARS also has an informal net on 28.435 MHz weekdays at 8 p.m. although we sure would like to have you check our 2-meter traffic net at 8 p.m. first, and they also operate a packet digipeater on 145.070 (VIA NSATQ-1) which is co-located with the KI4PH-1 node and the KI4PH-2 bulletin board on Mt. Whitney in San Marcos. These provide excellent coverage to access digipeaters throughout S. California - and beyond.

Bill-WA6ILH (EARS & PARC) is now the trustee for the 146.880 repeater in Escondido and t(he)y are putting a new repeater into service soon with a PL required to use the repeater. He is replacing Cal-W6MNH who is a well known ham in the Escondido area.

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

On 3-22-90 see-thru address labels were ordered.

At the March PARC club meeting we took a poll to find out how far members had to drive to the meeting site at the Lincoln Middle School in Vista. We had a total of 698 miles driven by 57 individuals (5 did not respond) for an average of 12.2 miles (one way). One side of the room averaged 14.1 and the other 10.0 miles. The greatest distance driven was by Steve-N6RUV (57), and Ted-N6IES (50). The shortest distance was by John-WB6IQS (1 mi). We will do the survey again in April at the Carlsbad Emergency Center.

TRAILERS - there is the possibility that one or both of our trailers could be seeing action soon: 1)the EARS parade in May, 2)Field Day activities in June, and 3)the Southwest Division convention in San Diego this August. The house trailer needs painting inside and out while the Antenna trailer needs inside paint, tower attached and painted, a trailer license, and windows installed. Both

trailers need running lights working. We have several club members who have volunteered for various projects but we really need more workers. Please contact me (W9FQN) if you can help. The volunteers that I can remember: Ron-N6SKM (tower), Joe-N6RVO (desk/painting), Benton-N6NMZ (general), Jo-KB6MNK (lettering), and Ed-N6GZI and Bud-KG6VX (electrical).

U.S. NEWS suggests that there is an IBM-PC virus lurking in many programs which is programmed to strike on April the 13th. It is supposed to destroy program disks, and hard disk drives so if on Friday the 13th your computer flashes GOTCHA you might want to turn off everything immediately before it destroys any more data. I guess that I am safe since my TRS-80 DOS won't go past 12-31-87 so I can't ever get to 04-13-90! I don't know what the virus does if you don't turn on your computer on the 13th.

###+++ C O R E C T I O N S +++###

The repeater in Fallbrook is really on 146.175 and uses a PL of 5B (162.2 Hz) contrary to my information in the last SCOPE. We are talking to Fallbrook and Escondido representatives about the three of us sharing the same PL so that those of you with fixed PL's in the North County area would be able to use all three machines without adjusting your PL. We might opt for the RACES PL of 114.8 which is the same as the EARS repeater. PARC does not intend to use the present 3A PL on 146.730 on a permanent basis: only when conditions warrant reduction of certain types of interference - so don't panic - yet! Thanks to Art Rideout, WA6IPD, trustee for 146.175, for calling my attention to this error.

Another error was in the FCC's phone number in San Diego which is 557-5478 and not 293-5478 which was an old phone number. Thanks to

Karl Pagel (TASMA-SCRUBA-????), N6BVU, who is a SCOPE proof reader from the L.A. area and talks to the FCC on almost a daily basis using the correct phone number.

###+++ T H A N K S T O +++###
=Bob-K86QC, former VP of PARC, who located our Palomar ARC flag and banner and returned it to us at the last Santee Swap Meet.
=Ralph-K6HAV for printing out the instructions to the ARESDATA1.1 disk and making up two copies of the disk for club members to try out. Be sure to see me at the next meeting for a copy of the disk if you would like to try it out on your computer-packet setup. You will need Packet, IBM-PC compatible, and an interest in emergency communications.
=Marsh-W6SAX for sending me practice CW Code for the Friday evening CW net.
=Jack-KI6JM for taking over the club's historical items. We have needed someone to take over from Bob-WA6KZN who is now traveling all over the country.
=Ralph-K6HAV for making copies of the IBM-PC ARES-data disks and sharing the ARES instructions with others.
=Charles-N6TEP for volunteering to head up a group to capture on VIDEO our Field Day emergency exercise this year. Charles has taken pictures before of some of our Palomar Mountain tower climbing escapades.
=Gerry-KI6BJM for setting up our April program at the Carlsbad Emergency Center with the RACES people at the Office of Disaster Preparedness (ODP) in San Diego.
=Ralph-K6HAV and examination crew for giving my daughter, Linda, her Novice exam. One more exam (Tech) and she can drive the family car. I can hardly wait!?!% I wonder if this falls under "cruel and inhuman punishment"?

73, de Stan, W 9 F Q N

EXECUTIVE COMMITTEE

The executive Committee, consisting of club officers and Chairmen of its committees, meets at 7:30 p.m. on the second Thursday after the club meeting. The April meeting will be at the home of K16JM.

At the March meeting at the home of K16JM, the minutes of the last meeting and the Treasurer's Report were probably read and approved. A grand time was had by all - probably.

VOLUNTEER EXAMINER PROGRAM

At the March tests our PARC VE team gave 29 test elements to 16 applicants, 10 of whom passed a total of 19 elements. Congratulations to club members Steve Baum who made it to Advanced with credit for 20 wpm from awaiting his first license; Phil Normington, WD6HFI, to General; Jim Franklin, KF6QH, passed Extra Class written; and Linda Rohrer, daughter of W9FQN, to Novice.

Our test crew was: K16JM & KE6VX reception & processing; WA6HYB, CW exams; WR7W, W6YYV, and KS6S examiners; and paperwork by KB5MU, AA6TR, and K6HAV. de K6HAV

► FCC LICENSE EXAMINATIONS in north county are conducted by the PARC VE Team, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month at 10:00 a.m.

► Examinations are also given under the auspices of SANDARC-VEC on the 1st Saturday in El Cajon, the 3rd in Normal Heights, the 4th in Chula Vista, and, in Escondido at the New Life in Christ Church, 300 Broadway, by the Escondido Amateur Radio Society on the last Saturday. Information on all SANDARC-VEC-sponsored exams is available by phoning 465-EXAM.

► 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, Post Office Box 2446, La Mesa, CA 92044 10 days before the test date. Bring ORIGINAL licenses and Certificates as well as a copies which you mailed. Questions: Call Ralph Crossman, K6HAV, 727-5866.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLO, who is very finicky and requires, not only money but, that you let him in on your name and call sign for your very own badge - like the big guys.

John has badges for: KC6AST, KC6BIM, N7EQU, WB6NVX, WA6QGC, WB6RWF, N6UZG.

If you don't want to pay full tab for your very own badge, John can make you a real deal on an unclaimed one.

WANTED

Kenwood TS820 or 820-S in 12st class condx. Call Franklin, N6AT, 728-8003.

ICom IC-30, 30A, or like xtal-contld/very basic syn. 450 mHz xcvr. Call Jerry, WB6FMT, 758-4388.

20A pwr supply, 300W ant. tuner, ham logging computer program. Call Duane, AA6EE, 789-3674.

4-5 elm. 10M beam; low pwr (100W) linear amp w/low drive reqrd, for 10M FM, prefer 12VDC equip. Call Mick, W6FGE, 222-3912.

Yaesu FL-110 1000 watt 80-10M amplifier or equivalent. Call Dan, KD7HQ, 789-0943.

Working Icom IC-22A: Sony Pro-80 or Panasonic RFB-65. Call Dennis, N6KI, 271-6079.

PARC REPEATERS

Three repeaters, two W6NWG/R, are owned and operated by the Club. One has an input of 146.130 mHz and an output of 146.730 mHz. Input for another is 444.425 mHz and output is 449.425 mHz. The third, W6NWG, is a packet digipeater on 145.050 mHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users.

Co-located with W6NWG/R is KA6UAI/R, 147.130 (+) which too is available to PARC members. Its use as a W6NWG/R overflow machine is encouraged. It will have battery backup soon?

The 220 Club of San Diego welcomes PARC members on WD6HFR/R, its 224.900 mHz repeater, co-located with W6NWG/R. It too has battery back up. Feel free to use it. If you find it useful, it wouldn't hurt to help support it by joining the 220 Club. Many of us have.

► THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS is to *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. Try to hear the interfering signal on the input of the repeater and determine the source direction.

GOODIES OF THE ELECTRONIC PERSUASION

► Alexander Battery Co. West, 520 State St., Escondido, phone 480-4445, has HT batteries and others.

► Aluminum, brass, copper, stainless steel, etc. at Escondido Sales, 1428 Mission Rd., Escondido.

► Electronic, mechanical, computer parts, etc. at Industrial Liquidators, 683 S. Rancho Santa Fe Rd., San Marcos; and 4887 Convoy St., San Diego, and Gateway Electronics, 9222 Chesapeake.

HAM STAMP PINS

The Club still has some of the nice amateur radio postage stamp replica pins for sale at \$5 a pop. See Ron, W16B or Stan, W9FQN.

ANSWERING THE CALL

There are instances when no one responds to a call for assistance on the repeater. Don't be bashful. If there's a need for assistance, step in and do it - don't wait for someone else. If you are the calling station, I'm sure you're as quick as I to resent those who do not respond.

When calling for assistance on the repeater, stay cool. Be specific about the problem at the outset. Be sure you and the responding station have each others call signs. When some one responds, be clear and concise about **WHAT** the problem is (three-car accident with injuries), **WHERE** it is located (I-15 southbound, number 1 & 2 lanes, one mile north of Gopher Canyon Road off ramp). Once your information has been received, **STAY ON THE FREQUENCY** in case of questions from the safety service being phoned. Highway lanes are always numbered from the lane nearest the center (there's always a number one lane!). If you are the calling station, don't be too quick to give up the ghost and go to another repeater - sometimes I have to go clear across the house to get to the rig - I don't always sit, poised, mike in hand waiting for your call! But if I'm home and listening, I **WILL** answer your call. You too, please. Make your calls for help selective as the "promiscuous caller" soon gets old.

In phoning in an emergency to the CHP, 911 seems the fastest way to go. CHP responses to quasi-emergency calls on non-emergency numbers are not always happily responded to. 911 is supposed to be used for "felony in progress" or "life-threatening" emergencies, but the rule is: When in doubt, call 911. When using 911 let the responding party know you are an amateur radio operator reporting a fire, accident, felony in progress, etc. in a location other than yours as your phone number and address appears on the monitor at the responding safety agency. If you are in Oceanside reporting a fire in Vista, the call will go to the O'side FD unless it's clear at the outset where the problem is located. You **CAN** save a life.

JOIN THE ARRL

You support your hobby by belonging to the PARC. The American Radio Relay League is the national entity to which you should belong. Who else lobbies for our wonderful hobby?

When joining/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 Treasurer Ron, WI6B. New ARRL membership application which include the PARC number (1703), garner the Club \$5 - and it doesn't cost you a fat farthing more!

TONE ENCODER

TONE ENCODER: A year or two ago, we reported the hum on the 146.730 machine being heard by folks with hi-fi speakers is a 3A (127.3 Hz) tone encoder. If you receive one of the other repeaters on 146.730 nearly as well as you do W6NWG/R, this tone, coupled with a de-coder in your rig will eliminate the interfering station. Most of the new mobile and base rigs have the provision for adding a tone decoder and for storing the tones in memory with the frequencies and offsets. This does **not** mean that it takes a sub-audible tone to access our repeater. It means a 127.3 Hz tone is needed for another station to access your receiver on 146.730 when you have the encoder turned on. The tone is on the repeater's transmitted signal for your use if you want to. Remember - when your decoder is on, you won't hear anyone on 146.730 simplex unless they are using a 3A encoder on their rig.

A WORD TO THE WISE CAN BE TOO MUCH

Not only are the good guys listening to the daily chitchat on the repeaters and simplex. Anybody with a scanner (or a stolen ham rig) can monitor what we say. If it is announced on the air that you and your family are going to be away for a specific period of time it's simple enough for the bad guys to go and rip you off. So don't talk about it on the air. Friends and acquaintances should also remember not to be "Helpful Harrys" by telling those who call you on the air that you are gone for the day/week/month.

It has happened. The first W6NWG/R was stolen by a burglar who heard work crew members directed to the site on the air! There was no other way to find it except by luck as it was in the basement of a house and the antenna was hidden in the trees. Yet the burglar, KR00K, drove to the site, broke into the house and stole the repeater and the homemade duplexer. To this day we are quick to veer away from the on-the-air question of the repeater location - even though we have a full time watchman in a near neighbor and have taken other security measures.

The point is: We have a lot of listeners out there and they are not all good guys! If you don't want the world to know, don't say it on the repeaters.

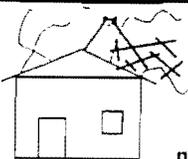
HELP WANTED

► Michael Hamman, WB6CSH, wants to hear from hams interested in becoming part of a SoCal-wide Kaiser Hospital Disaster Net on 2M. Details on becoming part of this disaster network; and on the various levels of participation may be obtained from him at 528-5300, 436-4411 X 5300, or 741-3445 X 5300. Leave a message.

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PARC ENLISTMENT/REENLISTMENT APPLICATION

Mail form with \$\$ to PARC, P.O. Box 1603, Vista, CA 92083-0530 or hand to Jo, KB6NMK, at club meetings. Dues (including SCOPE) are \$12 a year plus \$9 for each additional 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. Consider paying for two or three years at a time. Call, name, and complete address are required. Telephone number may be unlisted in roster if requested. Other information requested below may be omitted if you feel uncomfortable providing it to the Club.

Call _____ Name _____

Expires _____ Address _____

Class _____ City _____ State _____ Zip _____

Old Call _____ Phone # _____ home _____ work _____ Other _____

Date 1st licensed _____ Birth date _____ Thomas Brothers location, page # _____ coord _____

Names & calls of family members in PARC _____

ARRL _____ RACES _____ ARES _____ Red Flag _____ Blood donor _____ Type _____ Comments: _____

DOTTED LION

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W6NWX

Palomar Amateur Radio Club Inc.

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W6NWX/R 146.730 (-), 449.425 (-), 145.050 (Packet). KA6UAI/R 147.130 (+). WD6HFR/R 224.900 (-).

VOL. XXV, NO. 5

May, 1990

PRESIDENT:	Stan Rohrer, W6FQN, Valley Center	749-0278
VICE PRES:	Jack Hanthorn, K6JAM, Vista	598-0420
SECRETARY:	Nash Williams, W6HCO, Bonsall	728-3574
TREASURER:	Ron Wilhelmy, W6BB, Rancho Santa Fe	756-3133
SCOPE EDITOR:	Ralph Crossman, KA6AV, Vista	727-5866

► **PALOMAR AMATEUR RADIO CLUB MEETINGS** are held on the first Wednesday of the month at 7:30 p.m. in the CAFETERIA at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido Ave. in Vista. Parking in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome. Meetings are NOT a function of the Vista Unified School District and are NOT sanctioned by the school district board of trustees. Tol' yuz oncet, tol' yuz a hunnert times.

CLUB MEMBERSHIP is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first family member, and \$9.00 for each subsequent member at the same address. See application on last page. Membership/subscription matters, changes of address, P.O. Box 1603, Vista, CA 92083-0530. Material for Scope to PO Box 73, Vista 92083 by Wednesday, two weeks before the club meeting.

DISCLAIMER

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. So there!

MAY CLUB MEETING

The May meeting back at Lincoln Middle School in Vista, will feature Aubrey Stewart, W6ODG, of Transworld Communications, Inc. and a long-time club member who will show and tell us about some of his company's transportable radios.

If you have an item for sale, bring it for the Sale Table at the meeting, tagged with name, call and minimum price if any. The Club takes 10% and you go home with \$\$ (you'll have to buy something to hold down the garage like W9FQN).

You might also think to bring some tasties for Mac, NH6EW, to put out for the ravening horde.

LATEST CALL SIGNS

The last amateur calls issued for the Sixth Call Area by the FCC on 4/1/90 were: AA6UY, KK6IS, N6YJC, KC6JXO.

FCC'S FIELD OFFICE PHONE NUMBER

The FCC's San Diego Field Office is located at: 4542 Ruffner St, San Diego 92111; and the phone number to talk to a person there is 557-5478.

MEMBER INFORMATION

☼ GNU CLUB MEMBERS: Bernie Bernardini, K6UV, San Diego; Mike Brock, WB6HHV, San Diego; Wayne Hale, W6IZK, San Marcos; James & Vesta Stephens, KA6OLZ & KA6OMA, Carlsbad; John Kolb, KK6IL, Ramona. Welcome all.

☼ RENUDE MEMBERS: Andy Magnet, N6OSR; Ted Pakaski, N6NAU; Sam Burdette, W6YYV; Joe La-Pointe, WB6HMY.

☼ NEW CALL SIGNS: Jack Newlove, AA6UQ, from KK6FC; Steve Baum, N6YEH, first call while awaiting his Advanced Class license; Bernice Rosenberg, N6WQR from KB6TJW.

APRIL CLUB MEETING

At the April club meeting, the minutes of the previous meeting and the Treasurer's report were read and approved. Committee reports were heard. We heard John Talbot, KG6MD, RACES Radio Officer for San Diego County, tell us about RACES and how it was started at the instigation of Barry Goldwater and has now evolved into an emergency communications service as a part of the state's Office of Emergency Service under the control of the county sheriffs in California. Gerry Sandford, KC6BJM, showed a film of the Palomar Mountain fire of a year or so back. We were also treated to a tour of the marvelous Carlsbad Safety Center and had a chance to see the room therein dedicated to the amateur emergency communications services. Battalion Chief West, Carlsbad's emergency planner was our very hospitable host.

Goodies were courtesy of those thoughtful enough to bring them; and potables courtesy of Mac, NH6EW. 73 of us (including Little Joe, WB6HMY and, for the first time in my recollection, Alma Bourhenne, KE6HI) attended and had a great time.

FORESAIL

Personal ads of members are free.

Azden PCS-2000 25W 2M xcvr, \$100. Call Ray, W6BHE, 487-4423.

HyGain HTS Hightower vert. ant. for 10-80M, w/all stainless steel hardware, \$200. Call Ed, WA6ESG, 726-5236

Kenwood TS-530S xcvr, mint, \$475; Kenwood TS-820S, \$375 (dig. readout intermittent); Drake TR-3 xcvr, RV-3 remote VFO, AC & DC p/s, desk mic, \$250; Amp Supply LK-500BZ full legal amplifier, mint, \$695; Nye-Viking MB-V-A 3 KW ant. tuner, b/o; Mosley 3-el 20M beam (needs new elms), \$10; Mini-quad, b/o. Call Duane, AA6EE.

Kenwood TS820 HF xcvr in good condx. Call Franklin, N6AT, 728-8003.

Atlas 210X w/Shure 404C mike & Heath 25A pwr sup., \$200; Atlas 350XL w/pwr sup., Shure 404C, \$400; Heath 7-15 VDC 25A kit pwr sup., \$50. Call John, WB6RTY, 471-0034.

DGM MKB-2000 keyboard for perfect CW, has buffers and many features, \$100. Brother HR15 LQ printer, \$150. Call Lloyd, W6TFB, 757-9374.

GARAGE CLEANOUT!! As new Kaypro II w/manuals & software, \$200; Heath scope O-11, \$50; McMurdo Silver FM/TV sweep gen, \$25; Collins 70E8 PTO ser #1, in cabinet w/dial, \$35; BC-348 WWII rx, \$50; RCA Radiomarine CRM-R1A rx, \$50; 2 CB rigs, Siltronix & Realistic, offer; HV pwr supply 2,350 V @ 200 ma. or 1,000 V @ 300 ma, on chassis, unwired, \$50; 750 VA AC line volt. reg., \$50. Curator George, K6YGK, 755-1014.

2M xcvr 45 watt Yaesu FT270-RH w/tone encoder/decoder, \$325; 2M & 450 mHz: Kenwood TW-4000A 25W 2m/450 mHz dual-bander w/tone encoder, \$350; Apple IIc+ computer w/color mon. & ext. 5 1/4" DD & int. 3 1/2" DD, & software, never used, \$600. Call Ralph, K6HAV, 727-5866.

Butternut HF2V 40 & 80M vertical ant., brand new (no sales tax!). Call Ed, N6GZI, 542-1405.

Kenwood TS-670 10W all-mode quad-bander, 40, 15, 10, and 6M, and general coverage rx. Call Ron, W16B, 756-3133.

Coax switches. Complete RTTY, CW, ASCII setup: AEA CP-1 Computer Patch, Vic-20 computer w/mon., Datasette, software, all manuals, \$100. Call Ralph, K6HAV, 727-5866.

Jennings UC5L 1000 vacuum variable capacitor, \$40. Asst'd tubes all test good, \$1 ea. Call Dennis, N6KI, 271-6079.

MFJ Grandmaster Memory Keyer, \$75; Kenwood PB-21 battery, \$9; service manual for TS-530S, \$9; 80M add on coil for HyGain 14AVQ, \$9. Call Duane, AA6EE, 789-3674.

New, unused quad-band (6,10,15,20M) British-made 3 elm. mini-beam (boom is 9.5', longest elm is 10.75'). Call Lou, WB6CQA, 726-3572.

FLEA MARKETS

► The El Cajon ARC ham, computer, electronics swap meet at the Santee Drive-in theater, Woodside Ave at Hwy 67, Santee at 0700, first Saturday.

► The General Dynamics ARC swap meet on the 2nd Saturday in Cucamonga in the General Dynamics parking lot east of Haven on Fourth Ave, at 0700. Talk-in on 146.91 (-).

► The TRW ARC flea mart at the corner of Compton and Aviation Blvd. in Manhattan Beach on the last Saturday of the month at 0700. Talk-in on 145.32 (-), TRW repeater.

WANTED

TO RESTOCK MICK'S SURPLUS: Ant. tuning unit BC-729; speech amp BC-614 for BC-610; Field Telephone EE-8; JB-49 junction box; MC-269 table; masting sections MS 49, 50, & 51, 52 & 53; mast bases MP 22 & 47; SCR-211 freq. meter; JB-60 junction box; cord (cable) assys CO 313, 314, 652; and reel DR-4. Call 222-3912 and ask for Surplus Mick, W6FGE.

Legible schematic for National NC-173 HF rx. Call Lou, ND6W, 437-8351.

ICom IC-30, 30A, or like xtal-contld/very basic syn. 450 mHz xcvr. Call Jerry, WB6FMT, 758-4388.

20A pwr supply, 300W ant. tuner, ham logging computer program. Call Duane, AA6EE, 789-3674.

4-5 elm. 10M beam; low pwr (100W) linear amp w/low drive reqrd, for 10M FM, prefer 12VDC equip. Call Mick, W6FGE, 222-3912.

Yaesu FL-110 1000 watt 80-10M amplifier (equivalent). Call Dan, KD7HQ, 789-0943.

Working Icom IC-22A; Sony Pro-80 or Panasonic RFB-65. Call Dennis, N6KI, 271-6079.

>>>>>> PRESIDENT'S MESSAGE <<<<<<<

###+++ HAM CALENDAR +++###

 May 2 - PARC Club Meeting
 Lincoln MidSchVista
 May 5 - Santee Swap Meet
 May 5-6 - UHF/VHF Conference
 May 10 - PARC Exec Meeting
 May 11-13 - EARS Avo Festival
 May 12 - PARC VE Testing
 May 19 - EARS T - Hunting
 May 26 - EARS VE Testing
 Jun 1 - PARC early dues \$12
 Jun 2 - Santee Swap Meet
 Jun 6 - PARC Club Meeting
 =====
 Jun 23-24 - ARRL/PARC FIELD DAY
 =====
 Aug 12or19 - Palomar ARC Picnic
 Aug 24-26 - SD SW DivConvention
 (Send calendar items to W9FQN)

###+++THE GREAT EARTHQUAKE+++###

Here come the Judge!

(Tues., Oct.17th, 1989 @ 5.04pm)
 Biggest aftershock magnitude: 5.2
 Aftershocks as of Oct. 20: 4,500
 Aftershocks greater than 3.0: 77
 Aftershock probability > 6.0: 10%
 Aftershock probability > 5.0: 45%
 Seconds it took fault to slip: 10
 Seconds people felt shaking: 15-40
 Sway of 853' Trans American: 6'
 (wonder how that felt!)

COMMENTS:

The N6VV BBS, near the San Francisco Quake, has 6 ports: 144.99, 223.54, 433.41, 441.50, 14.109, and 21.097 MHz. His BBS usually handles between 9-13,000 messages per month. About 10,000 earthquake messages were handled by N6VV after the S.F. Earthquake.

N6VV's observations on Packet for emergencies: 1)have plan + backup plan, 2)Packet should be used for Health and Welfare but probably not for TACTICAL information (use voice, packet jams the H&W channels), 3)use networking, 4)need a way to handle network management bulletins, 5)all packet people need to be familiar with a packet bulletin board since

most H&W is not handled by normal NTS liason people (they are busy with tactical messages), 6)each bulletin board should have a HOWTO.NTS in its file section for people to download BEFORE the emergency, and 7)there should be NO BOOK traffic and all traffic must have ZIP codes and phone numbers.

If anyone knows the PACKET PLAN for S.D. Co., please send it to us for publishing here in the SCOPE.

After taking care of your family, be sure to monitor 146.730 and 145.05 for information on how you might be needed. Remember that you should really do your best to keep off the air until you are needed. ARES/RACES representatives will be making announcements as soon as they find out what needs to be done. The K6GUA/R repeater on 147.130 will be used as a "backup" to .73 and it will also probably carry the "Animal Rescue" organization based in San Diego.

When the QUAKE shakes it sometimes knocks the phone off the hook which causes problems in the telephone office so be sure to check your phones after a quake. In the most recent quake in the S.F. area, amateurs were reporting no phone service almost immediately and this could be due to "phones off the hook" and too many people trying to make calls after the quake. The same thing happened in the San Francisco area October 89 quake. You can really get a "feel" for what is going on by listening to W6FXN/R on Buzzard Peak in the L.A. area where they hold the earthquake net on 145.460. You can hear stations reporting in with "damage" information from L.A. and S.D. I noticed that channel 2 gave exactly the same reports that I heard over W6FXN/R one hour earlier.

###+++ FIELD DAY +++###

Field Day this year is the last weekend in June, the 23rd and

24th. Bud-KG6VX has consented to again be the Field Day Chairman. His tentative Chief Operators are as follows along with possible band assignments (5A) and known operators (we need more help!):
 =20->10M CW, Duane-WB6R (select)
 K6XT, N6KR, _____ (20-40wpm)
 =80/40M CW, Mark-AA6TR (select)
 K85MJ, WB6R, _____, (13-20wpm)
 =20M SSB, Dennis-N6KI (select)
 WQ6V, WF6L, WB6KYG, NGCDA, NGUWU
 =40/15M SSB, Paul-KZ6X (select)
 KF6BL, _____, _____
 =10M SSB, Jo-KB6NKK (open)
 all Techs/Novices/YL's
 =80M SSB Jack-KI6JM (open)
 _____, _____, _____, _____
 =6M-70cm Steve-N6UIA (open)
 _____, _____, _____, _____

Things to think about are: canned messages in CW, computer logging, earphone operation, foot switches, good antennas, known transceivers, training operators, shelters, etc. If you would like to help on Field Day, see Bud at the next meeting.

###+++ S.W.Div.Conv. +++###

The South West Division Convention, August 24, 25, and 26th, is moving along quite nicely under the able direction of Sybil Allbright-W6GIC. PARC has the responsibility for seeing to it that all of the companies that have bought booth space (123 booths) in the convention center get to their numbered booth. We will be needing club members who are free on 23 or the 24th and have HT's to help exhibitors get moved into their locations. This is an excellent opportunity for you to meet the "higher ups" in well known companies and see some of the products before the convention starts.

We will also need PARC members to help with the "exhibitors hospitality" booth on the 24th, 25th, and 26th. There is no big responsibility connected with this

other than to see that they have a place to rest and relax for a few minutes during the exhibition hours - again a great place to meet the top brass.

We already have three members signed up to help but we will be needing about 20(+) helpers so that your "tour of duty" will not last very long. So far we have: N6QJE, K6GFP, N6QDB and KC6JZJ - we need more.

###+++ AMATEUR TELEVISION +++###

A new member, Steve-KB6GKE, is quite interested in Amateur Television (ATV) and would like to meet other members who are also interested in sending and receiving ATV pictures. In some cases you might have the majority of the equipment already: TV set, VCR camera, and 450 transceiver.

It is my understanding that suitable cameras are selling at the swap meets for \$10-40 masquerading as surveillance cameras. Suitable converters are going for under \$100. A former club member, Burr Chambless-W6VYD, and his son live in Oceanside running ATV but I don't know what has happened to them.

###+++ UNLICENSED? +++###

How do you tell someone how to obtain an amateur radio license? I guess there are many solutions to this problem but I would like to suggest the following:

- =1) Obtain a code/theory package from HAM RADIO OUTLET, or RADIO SHACK and possibly obtain the AMECO or ARRL radio theory books (I have always liked the AMECO tests and theory booklets best). The whole package should cost less than \$30. If they have a computer, they should obtain a Morse Code program (\$10-20/free) and then not buy the code tapes. This should still keep them under \$30.
- =2) Work on the code and theory in conjunction with an Elmer.
- =3) Mark all questions in the study test booklet that they don't under-

stand and contact their Elmer about the reasons for the answers. This could be done at a club meeting so invite them to join PARC and attend meetings.

=4) Introduce them to Ralph-K6HAV and have him explain the testing opportunities available to them.

=5) Encourage them to visit several amateur radio stations while pointing out things of interest in the station: coax, antennas, grounding, frequencies, ionosphere effects on distance, repeaters, etc.

=6) Keep track of their progress and encourage them in their efforts.

It is nice to attend a class but due to the present test structure it is possible to "go it alone" as long as you have one or two Elmers to ease them over some of the rough spots.

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

The CW NET with practice messages like the VE CW tests on Saturdays seems to be coming along fine so far and if there is still a demonstrated need after another month or so, we will be needing net controls that can send the 20, 13, and 5 wpm code messages such as I have been doing the past month or so. Many of the packet boxes are able to also send code so you might want to check that capability in your unit.

The San Diego Packet Radio Association (SANDPAC) meets the second Tuesday of each month and their new meeting place is the Kearney Mesa Recreation Center located at the corner of 3170 Armstrong and Mesa College Dr. Contact Paul-K8SMU for more information.

PARC members are reminded that they are invited to come to the club's executive committee meetings which are eight days after the club meeting (Thursday evening at 7:30 p.m.). Please come to these meetings when you have concerns that need to be addressed. Their location is always announced in the SCOPE.

At the next club meeting I will be bringing some of the following items for sale by the club: high class junk parts, radio magazines, and surprise goodies. Be sure to bring your surplus change for these hard to find items.

The 220 CLUB OF SAN DIEGO operates a repeater on 224.90(-) in our bunker on Palomar Mountain for which they pay a rather nominal fee each month. In return, they allow our members to use their repeater. If you use their repeater on a regular basis, it is suggested that you join their club too. At present, 19% of their club is made up of Palomar ARC members.

###+++ T H A N K S T O +++###

==the Widow and family of Maurice Horrell-KB6QF for the donation of a SB-101, power supply, computer terminal, and assorted small items to the club. Some of the items will be used in club projects and the rest sold to pay for other club projects.

==Bill Countryman-KE6BH for donation of TWO IC-71's to the club and an IC-71PS which is the AC power supply for one of the transceivers. These units operate on 6M (AM-CW-FM) and appear to be in mint shape. We could use the units on packet, remotes at the repeater site, as a repeater, Field Day, or does anyone have any other ideas? We need manuals.

==Marsh-W6SAX for all of the good CW messages which can be used for the CW code practice net each Friday evening at 2100 Hrs. Marsh also has an excellent MS-DOS CW practice program and from the directions which he sent me it really looks like it is an excellent program. You might want to talk to him about it sometime.

==Elenor-N6QJE for taking the ARES net this past month. She really has made an excellent net control.

==Linda-KC6JZJ for passing her T (now driving the family car).

73, de Stan, W 9 F Q N

☀ ARE YOU A PROSPECTIVE HAM? ☀

Interested in amateur (ham) radio and in the Palomar Amateur Radio Club? Want to talk to someone about it? You do? Then contact in:

Luisall	Nash Williams, W6HCD	728-3574
Camp Pendleton	PJ Mead, N6UCJ	941-9162
Cardiff	Duane Stedman, WB6R	753-4821
Carlsbad	Eleanore Call, N6QJE	729-0850
Carlsbad	Mark Moskowitz, AA6TR	944-0145
Chula Vista	Betty Mahoney, KB6DGR	420-2277
Del Mar	George Uminski, K6YGK	755-1014
Escondido	Jo Ashley, KB6NMK	741-2560
Encinitas	Dave Copley, WA6HQM	753-2605
Fallbrook	Art Rideout, WA6IPD	728-6834
Lakeside	Mac McBride, WB6GXR	561-2211
La Mesa	Roger Jaffe, N6UJW	697-6025
Leucadia	Bud Lincoln, KG6VX	436-9983
Oceanside	Lloyd Hunt, W6TFB	439-8227
Point Loma	Mick McDaniel, W6FGE	222-3912
Poway	Mark Schlessinger, N6NNI	748-8391
Ramona	Mike Fisher, N6MMP	789-2892
Rcho. Sta. Fe	Ron Wilhelmy, W16B	756-3133
San Diego	Dennis Vernacchia, N6KI	271-6079
San Diego	John Tentor, W6OLQ	672-3891
San Marcos	Floyd Harvey, W6JSP	741-8391
Solana Beach	Lou Broadbent, N6CKQ	755-9179
Valley Center	Stan Rohrer, W9FQN	749-0276
Vista	Ralph Crossman, K6HAV	727-5866
a	Jack Hanthorn, K16JM	598-0420

EXECUTIVE COMMITTEE

The executive Committee, consisting of club officers and Chairmen of its committees, meets at 7:30 p.m. on the second Thursday after the club meeting. May meeting at the W9FQN QTH.

At the April meeting at the home of K16JM, the minutes of the last meeting was read and approved.

WB6IQS, KA6HZF, and N60EI went to the mountain to look into the battery problem and to prepare for the moving the backup batteries into a shed external to the repeater bunker. WB6IQS reported the 146.730 backup battery showed one cell failing under load, dropping the battery voltage to 10V. Our MiCor repeater will not function at much under 11V. This cell will be replaced. WB6IQS reported he had purchased for the Club six Motorola Micor radios a new battery charger and some aluminum angle stock. The Committee voted to reimburse him \$366.29.

W9FQN discussed attempts to get a coordinated plan for use of the same tone access frequency for local repeaters to simplify access for members with older non-front panel programmable equipment. He also discussed Field Day plans and the construction of band pass filters for Field Day and

other multiple transmitter situations.

Larry de Montegre, WQ6V, presented to the Committee a problem he had encountered when he tried to carry his handy-talky with him at Knott's Berry Farm. He reported he had been brusquely and rudely treated by security personnel and escorted from the premises. It was noted that Disney Land, on the other hand, encourages amateur radio operation and has a low level repeater on the "Matterhorn". The Committee suggested a letter from Larry detailing the treatment he received. He will report the results and the Club will then decide what, action may take.

A grrrand time was had by all. The tasties were very much so and contrary to rumors not made from haggis leftover from Jack's breakfast.

VOLUNTEER EXAMINER PROGRAM

At the April tests our PARC VE team gave 16 test elements to nine applicants, seven of whom passed a total of 13 elements. Congratulations to Stan Rohrer, W9FQN, whose daughter Linda, KC6JZJ, made it to Technician.

Our test crew was: K16JM & KE6VX reception & processing; WA6HYB, CW exams; W6TFB, AA6TR, and AA6UQ examiners; and paperwork by W16B, and K6HAV. de K6HAV

► FCC LICENSE EXAMINATIONS in north county are conducted by the PARC VE Team, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month at 10:00 a.m. Walk-ins are not accepted - an appointment is required.

► Examinations are also given under the auspices of SANDARC-VEC on the 1st Saturday in El Cajon, the 3rd in Normal Heights, the 4th in Chula Vista, and, in Escondido at the New Life in Christ Church, 300 Broadway, by the Escondido Amateur Radio Society on the last Saturday. Information on all SANDARC-VEC-sponsored exams is available by phoning 465-EXAM.

► Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTOCOPIES) and copies of license(s) and Certificate(s) of Successful Completion, if any, to SANDARC-VEC, Post Office Box 2446, La Mesa, CA 92044 10 days before the test date. Bring ORIGINALS of licenses & Certificates. Questions: Call Ralph Crossman, K6HAV, 727-5866.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ, who is very finicky and requires, not only money but, that you let him in on your name and call sign for your very own badge - like the big guys.

John has badges for: KC6AST, KC6BIM, N7EQU, WB6NVX, WA6QGC, WB6RWF, N6UZG.

If you don't want to pay full tab for your very own badge, John can make you a real deal on an unclaimed one.

CLUB-SPONSORED NETWORKS

THE SAN DIEGO COUNTY TRAFFIC NET

An important community services provided by the Amateur Radio Service is the communication of message traffic. The Palomar Amateur Radio Club does this for San Diego County via its San Diego County Traffic Net, a part of the ARRL's National Traffic System. This public service is also an excellent training ground for handling formal messages of the type used in emergencies. ALL amateurs should be familiar with this phase of amateur radio communications and not wait to mess up an actual emergency net while learning how to do it.

Our San Diego County Traffic Net meets each night on 146.730 MHz, the PARC repeater, at 2000 local. Listen in and see what we do and how we do it. It should be interesting. If you've never handled traffic before, come on in and get your feet wet. At least learn the basics. Beginners are applauded - not just tolerated.

Our traffic comes into and goes out of the county via the SCNV (Southern California Net, VHF) on 146.850 (-) at 2100 local. Some stations on our net have trouble working this repeater at Crestline. Therefore, we always need liaison stations to take traffic to and bring it from SCNV. If you can do this and would like to help on a regular basis, please talk to Joe, N6RVO; Rich, KI6ZH; or Chuck, N6TJT. If you would like to act as an NCS (Net Control Station) or alternate, talk to the same folks.

THE NORTHERN DISTRICT, SAN DIEGO SECTION AMATEUR RADIO EMERGENCY SERVICE (A.R.E.S.) NET meets on 146.730 MHz each Sunday at 0830 and on 3.924 MHz at 0845 to provide A.R.E.S. and emergency and public service planning information to members of the Service. Visitors are welcome when called for after the member roll-call.

THE SAN DIEGO COUNTY MICROWAVE NET meets on 146.730 MHz each Monday at 2100. This net is to disseminate microwave information and is open to the old timer and the beginning microwaver. All are welcome. Kerry, N6ZW, is net control station. If you can't check in, at least give them a micro wave as you pass by.

THE SAN DIEGO COUNTY PACKET RADIO VOICE NET meets on 146.730 MHz each Tuesday (except the 2nd Tues. of the month) at 2100. This net is to provide information on Packet Radio for the beginner and the advanced packeteer. All are welcome. Paul, KB5MU, is net control.

THE SAN DIEGO COUNTY PERSONAL COMPUTER NET meets on 146.730 MHz each Wednesday evening (except for the 1st Wed. of the month) at 2100 to share information on computers. Chuck, KI6TG, is NCS, and he welcomes those with problems, information, questions, solutions, any PC - it doesn't have to be an IBM compatible.

THE HAM HELP NET meets on 146.730 MHz each Thursday evening at 2100 to help those with amateur radio related problems. Stan, W9FQN, is net control station. All are welcome to share problems and their solutions.

THE CW PRACTICE NET meets on 146.730 MHz each Friday evening at 2100 to assist those wishing to increase code proficiency to aid them in passing the FCC license

examinations or otherwise. The FCC QSO format is used to accustom potential applicants to the style of the actual examinations. Stan, W9FQN, is net control station. All are welcome to participate.

PARC REPEATERS

Three repeaters, two W6NWG/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and output is 449.425 MHz. The third, W6NWG, is a packet digipeater on 145.050 MHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users.

Co-located with W6NWG/R is KA6UAI/R, 147.130 (+) which too is available to PARC members. Its use as a W6NWG/R overflow machine is encouraged. It will have battery backup soon?

The 220 Club of San Diego welcomes PARC members on WD6HFR/R, its 224.900 MHz repeater, co-located with W6NWG/R. It too has battery back up. Feel free to use it. If you find it useful, it wouldn't hurt to help support it by joining the 220 Club. Many of us have.

► THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS is to *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. Try to hear the interfering signal on 146.130 MHz and determine the source's direction

MAURICE HORRELL, KB6QF, SK

We are saddened to report the recent passing of fellow PARC member Maurice Horrell, KB6QF. Maury was a faithful member of the club and was active on CW and in equipment construction. He is missed by those of us who knew him.

HAM STAMP PINS

The Club still has some of the nice amateur radio postage stamp replica pins for sale at \$5 a pop. See Ron, W16B or Stan, W9FQN.

JOIN THE ARRL

You support your hobby by belonging to the PARC. The American Radio Relay League is the national entity to which you should belong. Who else lobbies for our wonderful hobby?

When joining/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 Treasurer Ron, W16B. *New* ARRL membership application which include PARC number (1703), garner the Club \$5 - and it doesn't cost you a fat farthing more!

BURGLAR ALARM MODULE

(Chuck, K16TG, has come up with some notes on a cheap, simple, working burglar alarm system. Here's what he has to say about it. See the schematic Jo, KB6NMK, did for us. Ed.)

This is a simple but effective alarm using a minimum amount of parts. All parts are available locally at either Radio Shaft, Gateway Electronics, Western Radio, or your favorite electronics store. The circuit may be used with other voltages. It all depends on what voltage the relay and siren or other signaling device require.

INSTALLATION: The theory of operation is pretty simple. When the GROUND SENSE wire makes contact with ground, the relay will latch and hold until reset with S1 (key-switch). This will occur even if contact is made for only a split second.

After attaching color-coded wires to the relay contacts, I mounted my relay in a small plastic box to keep the rain out. Then I mounted the plastic box under the hood of the vehicle. S1 is any switch, but I recommend purchasing a key-lock switch and mounting it somewhere convenient, but so the wiring at the rear of the switch is not accessible to thieving hands. This switch turns the alarm on/off.

The fuse rating is also determined by the current draw of the siren or other signaling device. Check the rating on the device itself, and then double this value for a safe protection margin.

Connect the 12VDC lead to the vehicle battery, or any other voltage source capable of supplying the needed voltage for your siren or other device. If you use your vehicle battery, be sure the cables connecting it cannot be cut from the underside.

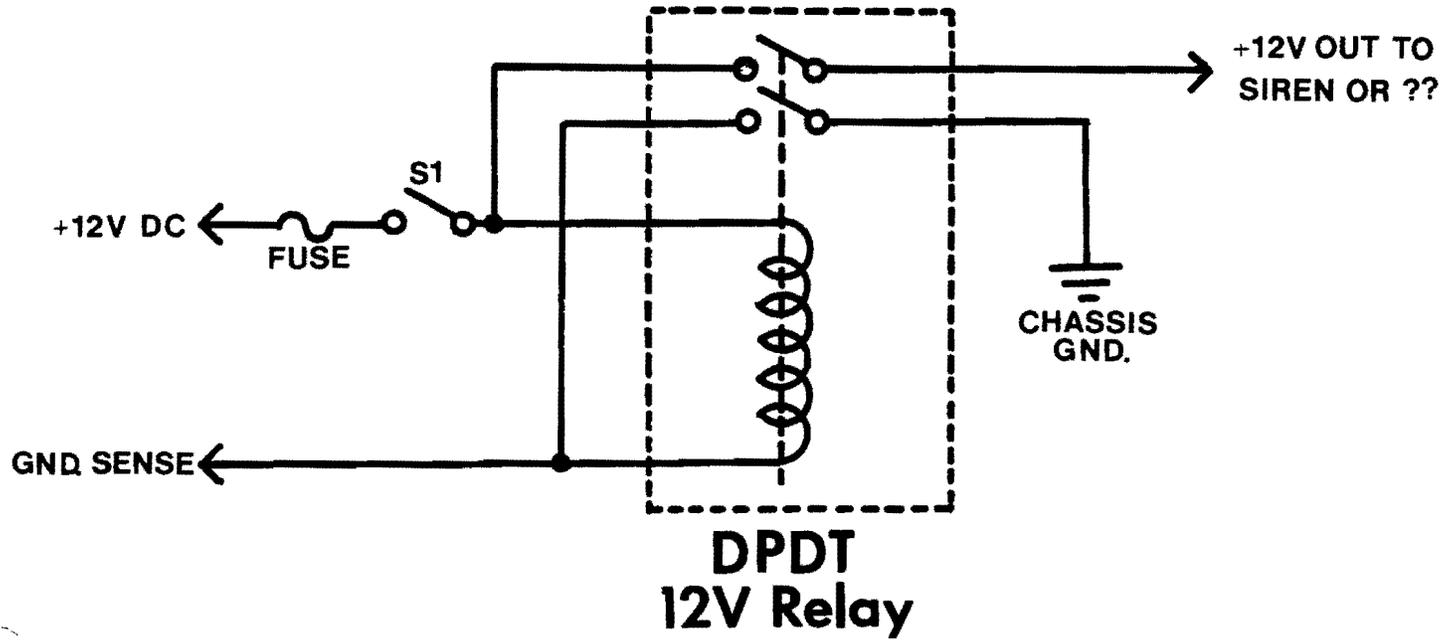
Connect the 12V OUT lead to your siren. Again, make sure the wiring is not accessible externally.

Connect the CHASSIS GND lead to any suitable ground point near the alarm module.

Connect the GROUND SENSE lead to any device that will make contact with the ground side of the battery when the vehicle is entered. This device is usually a door switch or motion detector. Some door switches can be used as is if they are the grounding type. This can be verified by using a VOM. A motion sensor is nothing more than a thin strip of flexible material that when set in motion will complete a circuit to ground. I use one in my alarm system, but I have it run through a switch inside the vehicle first, so I can shut this feature off if needed. The typical (cheap) motion sensors don't work properly if you are parked on a hill. They work fine in normal circumstances when adjusted properly. They can be sensitive to large trucks, small quakes, etc. There is usually a sensitivity adjustment on these devices. They help nab those neighbors using the braille method to park. If you have no existing door switches, you can buy them cheaply. They are installed by drilling a small hole, and then screwing the threaded switch into this hole. See the manufacturers instructions for more info. Be sure to use a switch for every opening to be protected, including the hood and trunk.

Good luck, and if I can be of any help, or you would like to see a sample installation, please let me know.

de Chuck Dowling Jr, K16TG



Phil, WF6L, tells us that his Potter Junior High School ARC is one of very few area school clubs to be chosen to talk to the space shuttle on its next mission. Pictures at eleven.

SANTA MARIA RADIO SWAP MEET

The Satellite ARC's Santa Maria Radio Swap Meet (and barbecue) will happen on 6/17/90 starting at 0900 for buyers and 073 for sellers. It will happen at Unocal's Newlove Picnic Grounds south of Santa Maria off of U.S. 101. 2'X6' swap space is \$3.50; dinner is \$7½; talk-in on 146.94 (-). Map and more info at the May club meeting.

GOODIES OF THE ELECTRONIC PERSUASION

- ▶ Alexander Battery Co. West, 520 State St., Escondido, phone 480-4445. has HT batteries and others.
 - ▶ Aluminum, brass, copper, stainless steel, etc. at Escondido Sales, 1428 Mission Rd., Escondido.
 - ▶ Electronic, mechanical, computer parts, at Industrial Liquidators, 683 S. Rcho Santa Fe Rd., San Marcos; & 4887 Convoy, San Diego, and Gateway Elect., 9222 Chesapeake.
-
-

EARS T-HUNTS

The Escondido ARS (EARS) sponsors a T-hunt on the 3rd Saturday of the month at 0930. Assembly point talk-in at 0900 on 146.88 (-). The hunt frequency is 146.565. The hidden transmitter is within 10 miles of the start. New folks may ride along a time or two to see how it is done.

POINT LOMA NOVICE INSTRUCTION

Mick McDaniel, W6FGE, phone 222-3912, says he's part of a small group of hams on Pt. Loma who give Novice instruction and do Novice testing.

SURPLUS?

DONATE IT TO THE CLUB if you can't sell it or aren't up to hauling that TS-950 or IC-781 to the flea markets. The Club will sell it and put the money in the Equipment Fund for a new repeater, antenna, or coax. Contact a club officer.

BEEG DISCOUNT IN MAGAZINE PRICES

Dennis, N6KI, sez we can get CQ and 73 and a host of other magazines at a substantial discount via the Munhalls in Escondido - CA, that is. Their address is: Bob & Collette Munhall, 27898 High St., Escondido, CA 92026. The magazines they can provide subscriptions to at a discount fill two columns on 12 pages and run from *Abitare* to *Zoo Books*. We can get a year's subscription to CQ for \$8.10 vs. the publisher's EIGHTEEN BIG BUCKS! Or two years for \$14.85 vs. \$33. I can get PC World for \$13.46 vs. \$29.90. Dennis says he's used them for 10 years with no problems except that it may take 2-3 months to get started. If you're renewing a mag subscription from another source or from Munhills, send the old mailing label with your order. You must regnu three months before expiration to maintain continuity. You may subscribe for one or two years and will then be on Munhalls' mailing list. Further, write out Seventy Three vice 73 when ordering. Questions: call N6KI.



DOWN THE TOOBE

We're sorry to report Duane, WB6R, was in the hospital with a suspected gallstone problem. He's now home and recovering his strength. He had some good ham help in driving home from work while in great pain. Hope you're back "in battery" soon, Duane. And thanks to WA6HYB for standing in for you at our last VE session.

For those of us interested in 6M DX, The KA3B 6 Meter Report is available from Harry A. Schools, KA3B, 1606 South Newkirk St., Philadelphia, PA 19145. The subscription rate is \$20. The April issue, which one of our readers, Tony Musero, K3UKW, sent along, consists of 16½ pages of DX info and 2½ pages of info on other subjects. Thanks, Tony.

Sure nice to see Bernie Bernardini, K6UV, has rejoined the Club after all of these years. Bernie signed up for 3+ years after having been among the missing for 10 or so. Welcome back.

Heard "Little Joe", WB6HMY, say the reason he's not heard on the .73 machine anymore is that "It's too busy." Shows how long he *hasn't* been on "seven three"!

Bob Gonsett's Communications General Corporation newsletter, the CGC Communicator, April issue, tells of ICom's soon-to-be-introduced IC-R1 very small wideband scanner - 1.9"Wx4"Hx1.4"D. Continuously covers 100 kHz-1300 MHz AM, FM, FM wide modes w/ built-in NiCad battery pack, external DC pwr jack, signal strength indicator, real time clock, 100 memory channels and more, much more. Price? Try \$599. May be available in May or June. Wot! noSSB capability?

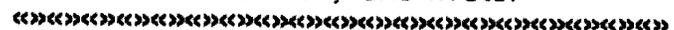
Incidentally, CGC is now located in beautiful downtown ~~Fallback~~ Fallbrook where Bob is now a Falstaffian by default, they all have de faults.

Jo, KB6NMK, received a short note from Eric, KB6EPO. Says he's alive and well aboard the USS Independence CV-62. His Scope arrives via COD (Carrier Onboard Delivery) by the "Provider Airlines", the one he was a member of prior to his present tour in Independence. Txn fer update on ur QTH, Eric, es 73.

Maybe next month we'll have room for "Confessions of a DX-Mad Ham" by Vic Musil, N6OYG, who took the time to write and send to us for inclusion in some issue of Scope some of his experiences in chasing DX on a hidden dipole with a barefoot rig. Maybe some of the rest of you will get some ideas. N6INN is doing the same thing on 15M using a 40M Inverted Vee.



"That's all," she wrote.





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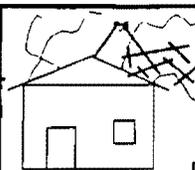
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Tuner-Tuner™**

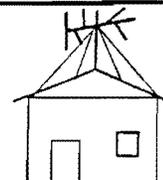
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PARC ENLISTMENT/REENLISTMENT APPLICATION

Mail form with \$\$ to PARC, P.O. Box 1603, Vista, CA 92083-0530 or hand to Jo, KB6NMK, at club meetings. Dues (including SCOPE) are \$12 a year plus \$9 for each additional 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. Consider paying for two or three years at a time. Call, name, and complete address are required. Telephone number may be unlisted in roster if requested. Other information requested below may be omitted if you feel uncomfortable providing it to the Club.

Call _____ Name _____

Expires _____ Address _____

Class _____ City _____ State _____ Zip _____

Old Call _____ Phone # _____ home _____ work _____ Other _____

Date 1st licensed _____ Birth date _____ Thomas Brothers location, page # _____ coord _____

Names & calls of family members in PARC _____

ARRL _____ RACES _____ ARES _____ Red Flag _____ Blood donor _____ Type _____ Comments: _____

.....
DOTTED LINE

SCOPE, USPS 076530, published monthly by the
FALCONER AMATEUR RADIO CLUB, INC.
3716 Bluebird Canyon Rd. Vista, CA 92084
Subscription: \$3.00 per year. Second Class
Postage paid at Vista, CA 92083
POSTMASTER: Send changes to SCOPE
P.O. Box 1603 Vista, CA 92083-0530

2nd Class Postage paid
at Vista, CA 92083

----->>>>> PRESIDENT'S MESSAGE <<<<<-----

###+++ HAM CALENDAR +++###

-
- Jun ? - EARS Novice class
- Jun 1 - PARC early dues \$12
(Send it in NOW)
- Jun 2 - Santee Swap Meet
- Jun 6 - PARC Club Meeting
- Jun 8-10 - Special Olympics
- Jun 9 - PARC VE Testing
- Jun 14 - PARC Exec Meeting
QTH of W9FQN V.C.
- Jun 16 - TASMA Election 12>5
Carlsbad Safety Ctr
- Jun 16 - EARS T - Hunting
- Jun 16-18 - PARC @ Del Mar Fair
- Jun 23-24 - F I E L D D A Y
Valley Center, Pg8L, 4A or 146.730
- Jun 30 - EARS VE Testing
- Jul 1 - \$12.00 MEMBERSHIP
- Jul 4 - No club mtg, see 11th
- Jul 11 - PARC Club Meeting
at CARLSBAD SAFETY CENTER
- Jun 23-24 - ARRL/PARC FIELD DAY
- Aug 12 - Palomar ARC Picnic
only members eligible for prizes
- Aug 24-26 - SD SW Div Convention
(Send calendar items to W9FQN)
-

###+++ DEL MAR FAIR +++###

PARC again has the SANDARC amateur radio booth at the Del Mar Fair and we will be needing operators for June 16, 17, & 18th (Sat, Sun, and Mon). If you can help, please contact Barbara with a radiogram or see her at the next club meeting. We will need nine shifts of two amateurs each for 10-2, 2-6, and 6-10 p.m. You will receive a free ticket to the Fair. If four of you get together for two time slots, you can spend eight hours at the fair and rotate as the spirit moves you.

###+++ A U T O P A T C H +++###
(update)

The executive committee voted to accept Erick-KAGUAI's offer of opening up his private autopatch on 147.130 to club members on a trial basis. You will be able to dial 911 and only the prefixes which the

club approves. If you can call ENCINITAS toll free (436) from your QTH, you will need to send a message to W9FQN stating the prefix you are most likely to call since it is our intention to "lock out" all other prefixes. Information on how to use the patch will be given at the July 11th meeting in the Carlsbad Safety center.

We hope to have the 146.73 autopatch on line soon from Escondido (747) and it will also be restricted to specific prefixes. You will also need to let us know if you can call Escondido toll free, what prefixes you want opened up. There is the possibility that this autopatch will be moved to the San Marcos area at a later date because we can access prefixes more likely to be used by club members.

Be sure to indicate in your Radiogram to W9FQN which repeater and free prefix you want to use. No notification is needed for the emergency numbers such as 911. A sample Radiogram might be as follows from N6QDB wanting to use 147.130 with a 944 prefix:(ie., 944 N6QDB 147.130) for a message count of three(3). At present this traffic will only be accepted on the PARC 8:00 p.m. evening nets passed from your station to W9FQN! A neat way to increase traffic count!

At present, until we get more experience, we would like to limit the use of the autopatches to emergencies and calling home to indicate a change in ETA or plans. All calls should be limited to less than 60 seconds. The only exception to this would be an emergency call.

NO BUSINESS CALLS OR ANYTHING CLOSELY RESEMBLING A BUSINESS CALL! Stay away from 1)calls to places of business where they answer with a company name, 2)calls relating to or referencing buying and selling of non-ham items, and 3)calls instructing anyone dealing with a

business operation. I am sure that we will come up with others as time goes by.

We will "lock out" any improper calls without notification. We will abide by FCC rules and will expect you to abide by any additional rules that we deem appropriate for our repeaters. We always expect more than the FCC requires.

###+++ FIELD DAY +++###

Latest update on FD stations as provided to me by CHOPS:

- =20->10M CW, CHOP>K6XT - >20wpm
K6XT, N6KR, RESTRICTED
- =80/40M CW, CHOP>AA6TR <20wpm
AA6TR, K85MU, W66R, N6YEH, AA6VO
KC6EYZ, WA6HQM, NU6L, _____ OPEN
- =20M SSB, CHOP>N6KI >RESTRICTED
WQ6V, WF6L, WB6KYG, N6CDA, N6UWU
- =40M SSB, CHOP> N6UCJ - OPEN
N6UCJ, K6GFZN, _____, _____
- =15M SSB, CHOP>KZ6X, >RESTRICTED
KF6BL, KC6JZZ, _____, _____, _____
- =10M SSB, CHOP>K86NMK - OPEN
K86NMK, KA6FPS, _____, _____, _____
- _____ , _____ , _____ , _____
(all Techs/Novices/YL's)
- =80M SSB CHOP>KI6JM - OPEN
K6HAV, N6INN, KI6JM, _____, _____
- _____ , _____ , _____ , _____
- =6M-70cmPkt Steve>N6UIA - OPEN
KI6RF, N6QBI, _____, _____, _____
- _____ , _____ , _____ , _____

Field Day is our one opportunity to demonstrate to the world that under emergency conditions we can contact other amateur radio stations throughout the United States - and even the world if need be.

This year I am seeing more of "contest" atmosphere among the "troops" so it will be interesting to see if we beat our 3,000 contact record of last year when we were 3rd in the United States and 1st in California in our 5A classification. I heard someone mention something about being first in the USA! It might be possible since we were about 150 contacts out of 1st

place in 89'. The club will have its three trailers at the site along with other assorted borrowed trailers. We have a 32' pump up mast and the following crank-up masts: 45', 40', and 36'. This sure makes it easier on us 60 year olds.

We still need the following for Field Day:

* MORE OPERATORS

* Loggers/computer operators

* More CW operators for #2 station and a trailer/motorhome

* Help setting up Friday afternoon

* Help taking down Sunday at 11am

* Novice/Tech ops for 10 meters

* XYL's, Novices & Techs for 10M and VHF/UHF

* PACKET OPS with an operation plan

* Coffee and snacks

There is a place for each and every club member at FD even if you do nothing more than serve as message or water person.

Remember to sign-in at Field Day so that you get another activity ticket for the drawing at the club picnic in August. There will a sign-in sheet for each day so make sure that you sign both days, if you work both Saturday and Sunday.

There will be a "Pizza" planning get together for all the troops participating in Field Day at a time yet to be announced.

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

The club is looking for a knob to fit over a 0.5" shaft on a large variac 0-140 VAC. Contact W9FQN.

PARC instituted "MOBILE HOURS" in the early 70's and it has been our policy for base stations to refrain from using the repeater during mobile hours except to briefly talk to a mobile station. With our increased repeater usage during mobile hours (both 146.730 & 147.130) we would like to suggest that mobile stations should keep transmissions short and allow the repeater to drop completely so that other mobile stations can break into the conversations or report accidents. Duane-WB6R does an

excellent job of trying to include everyone in the use of the repeater during the time he is on the road.

The Home Depot carries a Mini-Glue-Gun and GLUE STICKS, #837-032, for \$4 which work nicely for amateur radio. I use it to seal coax connectors, tack coax, insulate bare wires and tack wires to a chassis or wall, seal nuts and bolts, reinforce mic cords at connector junctions, and to repair broken parts. Reloads are \$2. Besides, it can be used around the house for paper, cloth, wood, plastic, glass, leather, rubber, tile, etc. It might even make the kids sit still - or keep them quiet if you put it the right place!

PARC is receiving \$75/month rent from repeaters using the club facilities on Palomar Mountain. This helps pay for the electricity, repairs, upkeep of the bunker, and minor repairs to the tower and antennas. We are allowing the 220 Club of San Diego reduced rent since they allow our members to use their repeater on a limited basis and Erik's KAGUAI repeater on 147.130 is "rent-free" since it is used as a backup to 146.730 during the day, and nets. It also takes Animal Rescue during emergencies. All rents are used for amateur radio related projects at the repeater site reducing membership dollars put into the site.

The HI-TECH TRADER is a national, twice monthly, information newsletter dealing with the selling or trading of amateur radio equipment and services. If you are interested in a free copy write to them at P.O.Box 1152, Norwalk, CA 90651-1152.

Check out Radio Shack's autoranging LCD digital meter #22-171 for \$15.95.

The club has four 6.5 AHr battery packs which can be loaned out for public service events and emergencies. Contact W9FQN. These were donated by John-WB6IQS and friends.

###+++ T H A N K S T O +++###

* Merit-W6NLO & WESTCOM ENGINEERING for donating a dual band vertical (2M and 450Mhz) and di-plexer : the club's emergency trailer thru Floyd-W6JSP.

* Orlando-N6QVW for machining the Field Day filter boxes and to Dennis-N6KI for getting the project moving.

* John-WB6IQS for putting the filters together. John also is running the frequency rejection curves on each unit so that we know what we have - this could be the subject of a program sometime.

* Mac-NH6EW for taking care of the coffee and goodies these past several years. Mac has been elected as an officer of the Elks and their officer's meetings are the first Wednesday of the month. THANKS, Mac, for being so faithful and for doing a great job with the refreshments. We need a replacement(s). Any volunteers?

* John-KK6IL of Ramona for the CTCSS sub-audible information.

* Carl-N6NZX for taking the PRACTICE net on Fridays for me when I am not around.

* Steve-KB6GKE for taking the Ham Help Net sometimes on Thursday evenings.

* Lloyd-W6TFB for information on emergency drills.

* Benton-N6MVZ for building meter boxes: 110vac and reed frequency meters. These are used with the emergency generators. Benton also mounted several telegraph keys on boards for us.

* Gordon-N6GW for taking time to send me info on traffic nets.

* Dennis-N6KI for looking out for the club's needs. He found a nice 40M rotatable dipole for the club's emergency program - and Field Day.

* Sam-WB4YQU for the donation of radios and parts from an M-4 tank that someone deposited in his garage. Now if we could just find the M-4 for an emergency mobile.

73, de Stan, W9FQN

FLEA MARKETS

- ▶ The El Cajon ARC ham, computer, electronics swap meet at the Santee Drive-in theater, Woodside Ave at Hwy 67, Santee at 0700, first Saturday.
- ▶ The General Dynamics ARC swap meet on the 2nd Saturday in Cucamonga in the General Dynamics parking lot east of Haven on Fourth Ave, at 0700. Talk-in on 146.91 (-).
- ▶ The TRW ARC flea mart at the corner of Compton and Aviation Blvd. in Manhattan Beach on the last Saturday of the month at 0700. Talk-in on 145.32 (-), TRW repeater.

EXECUTIVE COMMITTEE

The executive Committee, consisting of club officers and Chairmen of its committees, meets at 7:30 p.m. on the second Thursday after the club meeting. June meeting at the W9FQN QTH.

At the May meeting at the home of W9FQN, the minutes of the last meeting and the Treasurer's report were read and approved.

A grand time was had by all. The tasties were very much so.

VOLUNTEER EXAMINER PROGRAM

At the May tests our PARC VE team gave 18 test elements to 14 applicants, nine of whom passed a total of 13 elements. Congratulations to Benton Caldwell, N6MVZ, who made it to Advanced.

Our test crew was: K16JM & KE6VX reception & processing; WB6R. CW exams; AA6OM, WR7W, and KS6S examiners; and paperwork by KB5MU, AA6OM, and K6HAV. de K6HAV

▶ FCC LICENSE EXAMINATIONS in north county are conducted by the PARC VE Team, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month at 10:00 a.m. Walk-ins are not accepted - an appointment is required.

▶ Examinations are also given under the auspices of SANDARC-VEC on the 1st Saturday in El Cajon, the 3rd in Normal Heights, the 4th in Chula Vista, and, in Escondido at the New Life in Christ Church, 300 Broadway, by the Escondido Amateur Radio Society on the last Saturday. Information on all SANDARC-VEC-sponsored exams is available by phoning 465-EXAM.

▶ Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTOCOPIES) and copies of license(s) and Certificate(s) of Successful Completion, if any, to SANDARC-VEC, Post Office Box 2446, La Mesa, CA 92044 10 days before the test date. Bring ORIGINALS of licenses & Certificates. Questions: Call Ralph Crossman, K6HAV, 727-5866.

CLUB-SPONSORED NETWORKS

THE SAN DIEGO COUNTY TRAFFIC NET

An important community services provided by the Amateur Radio Service is the communication of message

traffic. The Palomar Amateur Radio Club does this for San Diego County via its San Diego County Traffic Net, a part of the ARRL's National Traffic System. This public service is also an excellent training ground for handling formal messages of the type used in emergencies. ALL amateurs should be familiar with this phase of amateur radio communications and not wait to mess up an actual emergency net while learning how to do it.

Our San Diego County Traffic Net meets each night on 146.730 mHz, the PARC repeater, at 2000 local. Listen in and see what we do and how we do it. It should be interesting. If you've never handled traffic before, come on in and get your feet wet. At least learn the basics. Beginners are applauded - not just tolerated.

Our traffic comes into and goes out of the county via the SCNV (Southern California Net, VHF) on 146.850 (-) at 2100 local. Some stations on our net have trouble working this repeater at Crestline. Therefore, we always need liaison stations to take traffic to and bring it from SCNV. If you can do this and would like to help on a regular basis, please talk to Joe, N6RVO; Rich, K16ZH; or Chuck, N6TJT. If you would like to act as an NCS (Net Control Station) or alternate, talk to the same folks.

THE NORTHERN DISTRICT, SAN DIEGO SECTION AMATEUR RADIO EMERGENCY SERVICE (A.R.E.S.) NET meets on 146.730 mHz each Sunday at 0830 and on 3.924 mHz at 0845 to provide A.R.E.S. and emergency and public service planning information to members of the Service. Visitors are welcome when called for after the member roll-call.

THE SAN DIEGO COUNTY MICROWAVE NET meets on 146.730 mHz each Monday at 2100. This net is to disseminate microwave information and is open to the old timer and the beginning microwaver. All are welcome. Kerry, N6IZW, is net control station. If you can't check in, at least give them a micro wave as you pass by.

THE SAN DIEGO COUNTY PACKET RADIO VOICE NET meets on 146.730 mHz each Tuesday (except the 2nd Tues. of the month) at 2100. This net is to provide information on Packet Radio for the beginner and the advanced packeteer. All are welcome. Paul, KB5MU, is net control.

THE SAN DIEGO COUNTY PERSONAL COMPUTER NET meets on 146.730 mHz each Wednesday evening (except for the 1st Wed. of the month) at 2100 to share information on computers. Chuck, K16TG, is NCS, and he welcomes those with problems, information, questions, solutions, any PC - it doesn't have to be an IBM compatible.

THE HAM HELP NET meets on 146.730 mHz each Thursday evening at 2100 to help those with amateur radio related problems. Stan, W9FQN, is net control station. All are welcome to share problems and their solutions.

THE CW PRACTICE NET meets on 146.730 mHz each Friday evening at 2100 to assist those wishing to increase code proficiency to aid them in passing the FCC license examinations or otherwise. The FCC QSO format is used to accustom potential applicants to the style of the actual examinations. Stan, W9FQN, is net control station. All are welcome to participate.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ, who is very finicky and requires, not only money but, that you let him in on your name and call sign for your very own badge - like the big guys.

John has badges for: KC6AST, KC6BIM, N7EQU, WB6NVX, WA6QGC, WB6RWF, N6UZG.

If you don't want to pay full tab for your very own badge, Honest John can make a deal on an unclaimed one.

ANTIQUA RADIO TUBES AVAILABLE

According to John, WB6RTY, tubes for all kinds of radios, antique and otherwise, are available from:

Antique Electronic Supply
688 West First Street
Tempe, AZ 85281

A catalog may be had by phoning: 602 894-9503. Thanks for the info, John.

PARC REPEATERS

Three repeaters, two W6NWG/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and output is 449.425 MHz. The third, W6NWG, is a packet digipeater on 145.050 MHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users.

Co-located with W6NWG/R is KA6UAI/R, 147.130 (+) which too is available to PARC members. Its use as a W6NWG/R overflow machine is encouraged. It will have battery backup soon, according to KA6UAI.

The 220 Club of San Diego welcomes PARC members on WD6HFR/R, its 224.900 MHz repeater, co-located with W6NWG/R. It too has battery back up. Feel free to use it. If you find it useful, it wouldn't hurt to help support it by joining the 220 Club. Many of us have.

▶ **THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS** is to *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. Try to hear the interfering signal on 146.130 MHz and determine the source's direction.

JOIN THE ARRL

You support your hobby by belonging to the PARC. The American Radio Relay League is the national entity to which you should belong. Who else lobbies for our wonderful hobby?

When joining/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 Treasurer Ron, W16B. New ARRL membership application which include the PARC number (1703), garner the Club \$5 - and it doesn't cost you a fat farthing more!

HAM STAMP PINS

The Club still has some of the nice amateur radio postage stamp replica pins for sale at \$5 a pop. See Ron, W16B or Stan, W9FQN.

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Mick McDaniel, W6FGE, phone 222-3912, says he's part of a small group of hams on Pt. Loma who give Novice instruction and do Novice testing.

BEEG DISCOUNT IN MAGAZINE PRICES

Dennis, N6KI, sez we can get CQ and 73 and a host of other magazines at a substantial discount via the Munhalls in Escondido - CA, that is. Their address is: Bob & Collette Munhall, 27898 High St., Escondido, CA 92026. The magazines they can provide subscriptions to at a discount fill two columns on 12 pages and run from Abitare to Zoo Books. We can get a year's subscription to CQ for \$8.10 vs. the publisher's EIGHTEEN BIG BUCKS! Or two years for \$14.85 vs. \$33. I can get PC World for \$13.46 vs. \$29.90. Dennis says he's used them for 10 years with no problems except that it may take 2-3 months to get started. If you're renewing a magazine subscription from another source or from Munhills, send the old mailing label with your order. You must regnu three months before expiration to maintain continuity. You may subscribe for one or two years and will then be on Munhalls' mailing list. Further, write out Seventy Three vice 73 when ordering. The prices sure look great on most of the magazines. If you have questions: call Dennis, N6KI.

SURPLUS?

DONATE IT TO THE CLUB if you can't sell it or aren't up to hauling that TS-950 or IC-781 to the flea markets. The Club will sell it and put the money in the Equipment Fund for a ew repeater, antenna, or coax. Contact a club officer.

CONFESSIONS OF A DX-MAD HAM

By Vic Musil, N6OYG

I wasn't always DX-mad. For the first nine years I was an amateur radio operator I never operated on the HF bands though I had a TS-520.

In 1988 I moved to Vista. I started playing with 10M antennas that wouldn't attract the attention of the homeowners' association. The most effective one was a 1/2 wave wire dipole nailed to my backyard fence about a meter above ground.

One afternoon in June, 1989, I called CQ and was answered by FO5MA. I was amazed when he told me he was in Tahiti! We chatted for about 15 minutes and he suggested an exchange of QSL cards. I placed a rush order for cards and sent him one. Wonder of wonders, I received his card in about a month. I was hooked, and immediately bought a copy of the ARRL DXCC Countries List.

My second DX contact was with Mexico. Unfortunately, I never got his card. On August 6, I really hit the big time, working five DX countries in one day. I also learned that while contests give a chance to work lots of new countries, they don't guarantee confirmations. I'm still waiting for two.

I bought a short CB dipole and put it in my attic and pruned it to load on 10M and the DX started to roll in. Additionally, I could operate my garage door when I transmitted and found I had marvelous 10M receivers in my ham shack TV set and the telephone. Bypassing the garage door opener and adding filters to the TV and telephone solved the problems of the volunteer receivers.

I worked the last of the six continents (EA8BPX, Canary Islands, for Africa) in 11/89 and received the QSL card in January. I operate 'PSE QSL direct, SASE and green stamp enclosed'. I sent my application for WAC to the IARU in early February. The cards came back about a month later with a note that all was in order and my award would follow. It's still following - I'm still waiting.

As of 3/31, I have 74 countries (48 confirmed). All were on 10M with the TS-520 barefoot, on the modified CB dipole and the dipole on the fence. A killer station isn't needed to work DX.

There are those who say: "I get more pleasure from a ragchew than from a slam-bam and gone DX contact." I agree, but the DX pileups don't allow leisurely contacts. I enjoy a QSO with N4SOJ as much as with an amateur in Hong Kong. (The card from VS6WS is safely in hand.)

Can I get DXCC on 10M SSB? Maybe - if Sunspot Cycle 22 holds out long enough. I worked 11 new

countries in February and 20 in March. I'll eventually run out of "easy" ones, but not yet. Maybe one day I too can smugly say: "Oh yes, I have DXCC - but I don't chase that stuff any more."



DOWN THE TOOBE

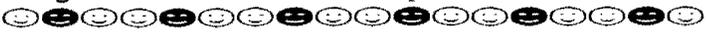
Heard from Guy Rowlett, KB6AI, and he says he has a new permanent address. It is: Park Regency, 1750 W. La Habra Blvd, La Habra, CA 90631; phone 213 697-1408. Guy will be living there and would like to have a visit or hear from any of his friends in north county. He's much improved and has moved to be near to his family and will be selling his Oceanside place.

Eric KA6UAI, says the emergency battery backup power will be affixed to the 147.130 machine reel soon. He's also soon to put the Motorola machine back on in place of the present rather inadequate one. It will have CTCSS access (PL is someone's trade name for it), frequency 107.2 Hz, added which may be used when needed but will eventually become a full-time thing (if you haven't got an encoder on your rig, better get one and learn how to use it). If you cannot access the 147.130 machine, but can hear it, transmitting *80 on the repeater input via your TTP will turn the CTCSS off and let you access the machine. Conversely, #80 will turn the CTCSS decoder off. Eric has piped the space shuttle audio into the repeater on its last trip and plans to do so again on the next one since no else in the county is carrying it.

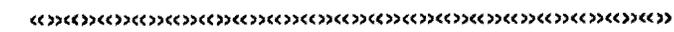
Encoders are becoming more and more necessary on VHF/UHF as all frequencies are inhabited by at least one repeater. Make sure any new VHF/UHF gear you buy has that capability. It's also nice if it has the decode capability too. If you (like I) have gotten tired of listening to the grungy audio and boring OSOs on that unsanctioned repeater on 146.730 in Los Angeles, you can turn on the decoder and only hear W6NWX/R which has its encoder on.

Thanks to Orlando, N6QVW, for machining the boxes and the PC boards for the band pass filters being built for the Club for Field Day. Thanks also to Dennis, N6KI, and to John, WB6IQS, for their part in getting them put together and tuned for the bands on which they are to be used.

Joe Harry, WA6WSZ, sends his thanks to club members Dennis, N6KI; Ed, WB6WQI; Ed, N6GZI; and Lee, W6TDC, for helping to service his equipment and get his station back into operation.



"That's all," she wrote.



SCRRBA 75 CENTIMETER SPECIAL USE FREQUENCIES

The Southern California Repeater and Remote Base Association (SCRRBA), the coordinating organization for 75 centimeter frequencies in Southern California, has asked that wide publicity be given to the following Special Use Frequencies.

FREQUENCY MHZ	USE
439.000	Simplex Digital Communications (100 kHz max bandwidth, non-voice). Uncoordinated ground use only. <i>Requires coordination by SCRRBA for comm. site use.</i>
439.500	FM Simplex ATV Coordination Channel (voice). Uncoordinated ground use only. <i>Requires coordination by SCRRBA for comm. site use.</i>
440.000	FM Simplex Autopatch. Uncoordinated ground use only.
441.000	FM Simplex Repeater/Remote Control (non-voice/tone only). Uncoordinated, ground transmit only.
441.500	Simplex Digital Communications (20 kHz max Bandwidth, non-voice). Uncoordinated use only. <i>Requires coordination by SCRRBA for comm. site use.</i>
445.000	FM Simplex Autopatch. Uncoordinated ground use only.
446.000	FM Simplex (Voice). Uncoordinated use only.
446.500	FM Simplex (Voice). Uncoordinated use only.
441.875	Test Pair input. Uncoordinated use only, CTCSS decode required.
446.875	Test Pair output. Uncoordinated use only, CTCSS encode required.

DEFINITIONS:

Comm. Site - An elevated location recognized and used by multiple fixed or mobile relay stations.

CTCSS - Continuous Tone Controlled Squelch System.

Coordination - Frequency Grant is issued by SCRRBA for a *SPECIFIC LOCATION* and operating parameters.

Ground Site - Any low level location that is not a comm. site.

Simplex - Transmit and Receive frequency are equal.

Uncoordinated - Frequency Grant is not, or will not be issued by SCRRBA.

Voice - Telephony use only.

1990 CALLBOOKS - - Duane Heise, AA6EE, has 1990 Callbooks at a reduced price for club members. North American, \$23.95; International, \$25.95; both, \$44.95; postpaid. Add saletax. Make check to Duane Heise, 16832, Whirlwind, Ramona, 92065. Phone: 789-3674 evenings.

The original
R-X Noise Bridge

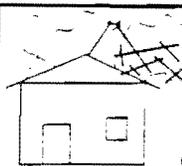
SWR AND POWER METER

The
Tuner-Tuner™

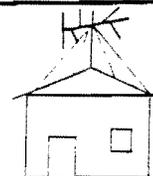
VLF CONVERTERS

Palomar Engineers

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PARC ENLISTMENT/REENLISTMENT APPLICATION

Mail form with \$\$ to PARC, P.O. Box 1603, Vista, CA 92083-0530 or hand to Jo, KB6NMK, at club meetings. Dues (including SCOPE) are \$12 a year plus \$9 for each additional 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. Consider paying for two or three years at time. Call, name, and complete address are required. Telephone number may be unlisted in roster if requested. Other information requested below may be omitted if you feel uncomfortable providing it to the Club.

Call _____ Name _____

Expires _____ Address _____

Class _____ City _____ State _____ Zip _____

Old Call _____ Phone # _____ home _____ work _____ Other _____

Date 1st licensed _____ Birth date _____ Thomas Brothers location, page # _____ coord _____

Names & calls of family members in PARC _____

ARRL _____ RACES _____ ARES _____ Red Flag _____ Blood donor _____ Type _____ Comments: _____

-----DOTTED LINE-----

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Scope

W6NWG

Palomar Amateur Radio Club Inc.

POST OFFICE BOX 1603, VISTA, CALIFORNIA 92083-0530



W6NWG/R 146.730 (-), 449.425 (-), 145.050 (Packet). KA6UAI/R 147.130 (+). WD6HFR/R 224.900 (-).

VOL. XXV, NO. 7

July, 1990

PRESIDENT:	Stan Rohrer, W9FQN, Valley Center	749-0276
VICE PRES:	Jack Hanthorn, KI6JM, Vista	598-0420
SECRETARY:	Nash Williams, W6HCD, Bonsall	728-3574
TREASURER:	Ron Wilhelmy, WI6B, Rancho Santa Fe	756-3133
SCOPE EDITOR:	Ralph Crossman, K6HAV, Vista	727-5866

► PALOMAR AMATEUR RADIO CLUB MEETINGS are *NORMALLY* held on the first Wednesday of the month in the CAFETERIA at Lincoln Middle School, Vista. In July, however, since the 1st Wednesday falls on the 4th, the club meeting will be held on the 11th. To further complicate your life, it will *NOT* be in Vista. It will be held in the CARLSBAD SAFETY CENTER on Faraday, a couple of blocks east of El Camino Real just slightly less than a mile north of Palomar Airport Road. Talk in on 146.730. Visitors are welcome.

► CLUB MEMBERSHIP is \$12 per year with *no* initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first family member, and \$9.00 for each subsequent member at the same address. See application on last page. Membership/subscription matters, changes of address, P.O. Box 1603, Vista, CA 92083-0530. Material for Scope to PO Box 73, Vista 92083 by Wednesday, two weeks before the club meeting.

☺ ☻ ● ● ☻ ☺ DISCLAIMER ☺ ☻ ● ● ☻ ☺

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.

JULY CLUB MEETING

THE JULY MEETING WILL BE HELD ON THE SECOND WEDNESDAY, JULY 11TH, IN THE CARLSBAD SAFETY CENTER, a couple of blocks east of El Camino Real, just a little less than a mile north of Palomar Airport Road. It will start at 1930 and will feature Bruce Smith KB6MCU, who will tell us about Amateur Television.

If you have an item for sale, bring it for the Sale Table at the meeting, tagged with name, call and minimum price if any. The Club takes 10% and you go home with \$\$ (you'll have to buy something to hold down the garage floor).

You might also think to bring some tasties for the ravening horde.

JUNE CLUB MEETING

At the June meeting, with VP Jack Hanthorn, KI6JM, presiding in lieu of errant and aging but agile W9FQN, the Minutes of the previous meeting were heard, as were committee reports. Bud, KG6VX, FD Chairman and Dennis, N6KI, discussed FD plans. Murphy permitting, we'll be very competitive this year. There will be a 10M Novice & Technician station. John Kuivinen, WB6IQS, told us about dBs and their relationships to power out and signal strength in - if you have a 30 dB gain antenna, *all* those megawatts aren't needed.

Goodies were tasty - courtesy of the thoughtful. 59 of us and Bob Hoover, KA6HZF, attended.

LATEST CALL SIGNS

The last Sixth Call Area calls issued by the FCC on 6/1/90 were: AA6WG, KK6LH, N6ZFD, KC6LUX.

FCC'S FIELD OFFICE PHONE NUMBER

The FCC's San Diego Field Office is located at: 4542 Ruffner St, San Diego 92111; and the phone number to talk to a person there is 557-5478.

MEMBER INFORMATION

☉ GNU MEMBERS: Linda Rohrer, N6YXX, Valley Center; Phil Miller (awtg lic.), Leucadia; Bill Steele, W7EAI; Chuck Piccone, W0LAE, Ramona; Larry Seaman, W6LCT, Vista; Fred Shields, N6SGQ, La Mesa; Katie & Lex Williman, N6UWX & N6UWY, San Diego; Mike Shirley, WB6WUI, Lakeside; Bill Callender, N6XMY, San Diego; Skip Steinwedell, N6YAX, Vista; Curt Taylor, N6XXV, Vista. Welcome.

☉ RENUDE MEMBERS: Doc Burton, AH8AD (2 yrs.); Guy Rowlett, KB6AI; Pete Ziegler, W3ARU; Gary Grant, N7AS; Jack Williams, W6BLL; Betty Mahoney, KB6DGR; Carl Langjahr, W6DNX; Bob Wagner, N6DUR; Jim Rugg, W6DVZ; Charles Inskeep, K6ERW; Ed Castagna, WA6ESG; Ed Falls, W6FTV; Richard Carey, W6GHD (2 yrs.); Russ Folsom, N6GJW; Chuck Calvert, KA6GRG; Charles Hodgson, W6HC (2 yrs.); Bill Watt, WA6HYC; Ed Carry, K6ICG; Tom Brown, N6ICH; John Kuivinen, WB6IQS; Chuck Inskeep, W6IRM; Paul Lackey, N6ISC; Peter Berg, KG6JA; (2 yrs.); Harry Rouse, WB6JVS (2 yrs.); Wally Cook, N6JZB; Kris Krist, W6KTE; Bob Heitger, WA6KZN; John Hammond, WB6MEI (2 yrs.); Art Baker, WA6MUW; Marcel Gallegos, W6NKB; Jo Ashley, KB6NMK; A.J. Ashley, KB6NML; Fred Klein, KB6NRL; John Tentor, W6OLQ; Ed Munn, W6OYJ; Doug Gordon, K6PUN; Ken Olson, N6RBS (2 yrs.); John Neuman, WB6RTY; Joe Martina, N6RVO; Art Mason, N6RYZ; Herb Wandschneider, WA6SVN; Ivan Simpson, W6TET; Billy McCord, WB6TBQ; Lloyd Hunt, W6TFB; Ellen Utschig, N6UWW; Teresa Ashley, N6UZH; Sam Stidd, N6XXV; Sam Oran, WB4YQU; James O'Berry, WT7W; James Parkinson, N6WTE; Anita & Art Nye, KB6YHY & KB6YHZ; Bill Sampson, WB6YLT; Bill Denton, NG6Z.

☉ NEW LICENSES/CALL SIGNS: Karl Brandt, N6WLX from KC6FEF; Peter Lusby, N6YMC (vice the incorrect one we gave him last month); Bill & Sandy Williams, N6YWW & N6YVX from WA6ABX & WB6WGU. Congratulations. *YWW*

☉ UPGRADES: Phil Miller, to Technician from no license. Congratulations.

MEL HANSON, KD6QJ, SK

We are saddened to report the passing of Melvin R. Hanson, KD6QJ, who became a Silent Key on November 21, 1989, as a result of congestive heart failure. He was retired from the Federal Aviation Agency; and had been in radio since his teens. He will be missed by all of the amateur radio fraternity who knew him.

HAM STAMP PINS

The Club still has some of the nice amateur radio postage stamp replica pins for sale at \$5 a pop. See Ron, W6B or Stan, W9FQN.

FORESAIL

Both Heath: SB-201 amp., \$400 obo; SA-2040 KW ant. tun. w/rot. coil, \$90. Dan, WA6HYB, 433-4445.

Heath SSB XCVR HW-101 w/CW filter, PS-23 pwr supply, HS-1661 spkr, desk mike, complete xtra set of tubes, all manuals, clean, \$150 or best offer. Autek QF-1A audio filter, mint condx, \$35; Heath SW-717 shortwave rx, mint, \$25. Call Dan, WA6HYB, 433-4445.

ICom μ 2AT 2M HT, like new, many accessories. Call Chuck, N5HTC, 273-0406.

10-20M 2-elm. quad, \$130; Heath SB-614 Monitorscope, \$65; AEA CP-1 w/text for C-64, \$65; Realistic Pro-34 handheld scanner, \$120. Call Alan, WZ6F, 693-1538.

Radio Shack DX-4000 rx, mint, \$50. Paul Lacky, N6ISC, 155 S. Las Flores, #76, San Marcos, 92069.

2M Ringo, \$10. Call Jerry, WB6FMT, 758-4388.

Kenwood TS-530S xcvr, mint, \$475; Kenwood TS-820S, \$375 (dig. readout intermittent); Drake TR-3 xcvr, RV-3 remote VFO, AC & DC p/s, desk mic, \$250; Amp Supply LK-500BZ full legal amplifier, mint, \$695; Nye-Viking MB-V-A 3 KW ant. tuner, b/o; Mosley 3-el 20M beam (needs new elms), \$10; Mini-quad, b/o. Call Duane, AA6EE.

Kenwood TS820 HF xcvr in good condx. Call Franklin, N6AT, 728-8003.

Brother HR15 LQ printer, \$150. Call Lloyd, W6TFB, 757-9374.

As new Kaypro II w/manuals & software, \$200; Heath scope O-11, \$50; McMurdo Silver FM/TV sweep gen, \$25; BC-348 WWII rx, \$50; RCA Radiomarine CRM-R1A rx, \$50; HV pwr supply 2,350 V @ 200 ma. or 1,000 V @ 300 ma, on chassis, unwired, \$50; 750 VA AC line volt. reg., \$50. Call George, K6YGK, 755-1014.

Kenwood TW-4000A 25W 2M/450 mHz dual-band FM XCVR w/tone encoder, \$350; Ass'td coax switches. Call Ralph, K6HAV, 727-5866.

Butternut HF2V 40 & 80M vertical ant., brand new (no sales tax!). Call Ed, N6GZI, 542-1405.

Kenwood TS-670 10W all-mode quad-bander, 40, 15, 10, and 6M, and general coverage rx. Call Ron, W6B, 756-3133.

Color monitor for C-64 in good condx and reasonable price. Call 722-5394 11 p.m to 7 a.m and leave message.

Asst'd tubes all test good, \$1 ea. Call Dennis, N6KI, 271-6079.

POINT LOMA NOVICE INSTRUCTION

Mick McDaniel, W6FGE, phone 222-3912, says he's part of a small group of hams on Pt. Loma who give Novice instruction and do Novice testing.

***** PRESIDENT'S MESSAGE *****

HAM CALENDAR

- Jul 1 - \$12.00 MEMBERSHIP
- Jul 4 - No club mtg, see 11th
- Jul 4 - Mira Mesa Parade
- Jul 11 - PARC Club Meeting
at CARLSBAD SAFETY CENTER
- Jul 19 - PARC Exec mtg W9FQN
- Jul 27-28-29 NAS Miramar Air Show
- Jul 31 - END PARC club year
- Aug 1 - START NEW CLUB YEAR
NO MORE SCOPES without \$12 dues
- Aug 8 - PARC Exec mtg W9FQN
- Aug 12 - Palomar ARC Picnic
only members eligible for prizes
- Aug 24-26 - SD SW Div Convention

146.730 WEEKLY EVENTS

- MON 8 pm S.D.Co Traffic Net
 - 9 pm Microwave Net
 - TUE 8 pm S.D.Co Traffic Net
 - 9 pm S.D. Packet Voice Net
 - WED 8 pm S.D.Co Traffic Net
 - 9 pm Open
 - THU 8 pm S.D.Co Traffic Net
 - 9 pm Ham Help Net
 - FRI 8 pm S.D.Co Traffic Nmt
 - 9 pm Code Practice VE Test
 - SAT 8 pm S.D.Co Traffic Net
 - SUN 8:30 a.m. ARES Net
 - 8:00 p.m. S.D.Co. Traffic Net
- (Send calendar items to W9FQN)

THE GREAT EARTHQUAKE

Here come the Judge!

(Tues., Oct. 17th, 1989 @ 5:04pm)

Confirmed Deaths: 73

Total Injuries: 3,266

People forced from homes: 13,892

Homes Damaged: 109,910

Decline tourist business 50-80%

Damages: \$5.6-7.1 Billion

1906 Quake: \$5.8 Billion (today)

People with Homeowners Ins.: 20%

Red Cross sheltered: 15,884

Budweiser 12oz cans of water: 1.2M

COMMENTS:

PARC has several 6.5Ahr batteries that would work nicely with HT's. These batteries are available for loan when used on public service and emergency activities. If you need to borrow

one, call W9FQN. These were made available to the club by John-WB6IQS who always has an eye open for things being "thrown out" and recycles them for club use.

The odds are that a disastrous quake will occur in the Los Angeles area before in San Diego so it looks as if San Diego will be in more of a support role than in actual digging out from a quake. This will mean that we will have to help communications in and out of L.A. along with the communications involved with people being housed in our area along with the overflow hospital traffic from L.A.

P O T P O U R R I

The club is still looking for a knob to fit over a 0.5" shaft on a large variac 0-140 VAC. Contact W9FQN.

Plastic rectangular closers like used on bread wrappers make nice "clip-ons" for marking or labeling wires and small coax.

Remember that when you go to the Santee Swap Meet that you are required to fill out a SWAP MEET SELLERS INFORMATION REPORT where you are required to list the serial numbers of equipment being sold plus some additional information. This is required by the California Business and Professions Code, Section 21660 to 21667 so it is suggested that you write down the serial numbers before you get there so that you have the information immediately available.

We are getting a nice little group of amateurs in Ramona: Duane-AAGEE, Russ-NGGJW, John-KKGIL, Becky-NGKAL, Boyd-WB6NJY, Dan-NSRKP, Vernon-NSWBO, and Dan-KD7HQ.

The Humane Society Rescue Reserve started in 1972 by SANDRA uses our 146.73 repeater for emergencies although if there is an ARES emergency the Humane Society traffic is to be moved to Erik's KAGUAI repeater on 147.13. If you are interested in helping with

animal rescue, please give Sybil-W6GIC a call at 278-4284.

If you use an HT, you need to be careful of continually attaching your rubber duck or other antenna since it destroys the two nipples on the BNC connector unless you completely press down on the rubber duck while attaching or removing the rubber duck or other connector. Replacing the top BNC connector on an HT is expensive!

THANKS TO

- * John-WB6IQS for an excellent program at the last club meeting. Sorry I had to miss it but the "hand-outs" I have seen were great.
- * Dennis-N6KI & Barbara-KAGFPS for their work scheduling operators for the Del Mar Fair and thanks to the following participants:
N6CKQ-Lou, N6XXU-Curtis, N6JQK-Daryl
KI6JM-Jack, N6RVO-Jo, W6GVNR-Joe
N6RLE-Nancy, KC6BJM-Gary, N6KI-Dennis
N6MVZ-Benton, K6ICG-Ed, N6UWU-Ellen
KAGFPS-Barb, W9FQN-Stan, K6SMU-Paul
W6GV-Larry, N6PQQ-Vina, K6HCD-Nash
WB6IQS-John

* Benton-N6MVZ for another wood box. This time enclosing the 0-130V variac.

* John-WB6IQS & Steve-N6UIA for moving the batteries from the repeater building to the generator shed. Still a little more work to be done.

* Frank-W6GHFE for taking the Sunday 8:30 am ARES net for the past two months. We are looking for more net controls so if you can help out for 1-2 months every two years, please contact W9FQN. We need experienced net controls for the BIG ONE which is COMING!

* John-WB6IQS for making up a "mobile" (has wheels) 60A-12VDC battery charger for the club.

* Orlando-N6QVW for drilling the metal plates for the Field Day tower hinges.

73, de Stan, W9FQN

► **FCC LICENSE EXAMINATIONS** in north county are conducted by the PARC VE Team, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month at 10:00 a.m. Walk-ins are not accepted - an appointment is required.

► Examinations are also given under the auspices of SANDARC-VEC on the 1st Saturday in El Cajon, the 3rd in Normal Heights, the 4th in Chula Vista, and, in Escondido at the New Life in Christ Church, 300 Broadway, by the Escondido Amateur Radio Society on the last Saturday. Information on all SANDARC-VEC-sponsored exams is available by phoning 465-EXAM.

► Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTOCOPIES) and copies of license(s) and Certificate(s) of Successful Completion, if any, to SANDARC-VEC, Post Office Box 2446, La Mesa, CA 92044 10 days before the test date. Bring ORIGINALS of licenses & Certificates. Questions: Call Ralph Crossman, K6HAV, 727-5866.

CLUB-SPONSORED NETWORKS

THE SAN DIEGO COUNTY TRAFFIC NET

An important community services provided by the Amateur Radio Service is the communication of message traffic. The Palomar Amateur Radio Club does this for San Diego County via its San Diego County Traffic Net, a part of the ARRL's National Traffic System. This public service is also an excellent training ground for handling formal messages of the type used in emergencies. ALL amateurs should be familiar with this phase of amateur radio communications and not wait to mess up an actual emergency net while learning how to do it.

Our San Diego County Traffic Net meets each night on 146.730 MHz, the PARC repeater, at 2000 local. Listen in and see what we do and how we do it. It should be interesting. If you've never handled traffic before, come on in and get your feet wet. At least learn the basics. Beginners are applauded - not just tolerated.

Our traffic comes into and goes out of the county via the SCNV (Southern California Net, VHF) on 146.850 (-) at 2100 local. Some stations on our net have trouble working this repeater at Crestline. Therefore, we always need liaison stations to take traffic to and bring it from SCNV. If you can do this and would like to help on a regular basis, please talk to Joe, N6RVO; Rich, K16ZH; or Chuck, N6TJT. If you would like to act as an NCS (Net Control Station) or alternate, talk to the same folks.

THE NORTHERN DISTRICT, SAN DIEGO SECTION AMATEUR RADIO EMERGENCY SERVICE (A.R.E.S.) NET meets on 146.730 MHz each Sunday at 0830 and on 3.924 MHz at 0845 to provide A.R.E.S. and emergency and public service planning information to members of the Service. Visitors are welcome when called for after the member roll-call.

THE SAN DIEGO COUNTY MICROWAVE NET meets on 146.730 MHz each Monday at 2100. This net is to disseminate microwave information and is open to the old timer and

the beginning microwaver. All are welcome. Kerry, N6LZW, is net control station. If you can't check in, at least give them a micro wave as you pass by.

THE SAN DIEGO COUNTY PACKET RADIO VOICE NET meets on 146.730 MHz each Tuesday (except the 2nd Tues. of the month) at 2100. This net is to provide information on Packet Radio for the beginner and the advanced packeteer. All are welcome. Paul, KB5MU, is net control.

THE SAN DIEGO COUNTY PERSONAL COMPUTER NET meets on 146.730 MHz each Wednesday evening (except for the 1st Wed. of the month) at 2100 to share information on computers. Chuck, K16TG, is NCS, and he welcomes those with problems, information, questions, solutions, any PC - it doesn't have to be an IBM compatible.

THE HAM HELP NET meets on 146.730 MHz each Thursday evening at 2100 to help those with amateur radio related problems. Stan, W9FQN, is net control station. All are welcome to share problems and their solutions.

THE CW PRACTICE NET meets on 146.730 MHz each Friday evening at 2100 to assist those wishing to increase code proficiency to aid them in passing the FCC license examinations or otherwise. The FCC QSO format is used to accustom potential applicants to the style of the actual examinations. Stan, W9FQN, is net control station. All are welcome to participate.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ, who is very finicky and requires, not only money but, that you let him in on your name and call sign for your very own badge - like the big guys.

John has badges for: KC6AST, KC6BIM, N7EQU, WB6NVX, WA6QGC, WB6RWF, N6UZG.

If you don't want to pay full tab for your very own badge, Honest John can make a deal on an unclaimed one.

PARC REPEATERS

Three repeaters, two W6NWX/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and output is 449.425 MHz. The third, W6NWX, is a packet digipeater on 145.050 MHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users.

Co-located with W6NWX/R is KA6UAI/R, 147.130 (+) which too is available to PARC members. Its use as a W6NWX/R overflow machine is encouraged. It will have battery backup soon, according to KA6UAI.

The 220 Club of San Diego welcomes PARC members on WD6HFR/R, its 224.900 MHz repeater, co-located with W6NWX/R. It too has battery back up. Feel free to use it. If you find it useful, it wouldn't hurt to help support it by joining the 220 Club. Many of us have.

SURPLUS?

DONATE IT TO THE CLUB if you can't sell it or aren't up to hauling that TS-950 or IC-781 to the flea markets. The Club will sell it and put the money in the Equipment Fund for a new repeater, antenna, or coax. Contact a club officer.

▶ **THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS** is to *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. Try to hear the interfering signal on 146.130 MHz and determine the source's direction.

GOODIES OF THE ELECTRONIC PERSUASION

- ▶ Alexander Battery Co. West, 520 State St., Escondido, phone 480-4445. has HT batteries and others.
- ▶ Aluminum, brass, copper, stainless steel, etc. at Escondido Sales, 1428 Mission Rd., Escondido.
- ▶ Electronic, mechanical, computer parts, at Industrial Liquidators, 683 S. Rcho Santa Fe Rd., San Marcos; & 4887 Convoy, San Diego, and Gateway Elect., 9222 Chesapeake.

BEEG DISCOUNT IN MAGAZINE PRICES

Dennis, N6KI, sez we can get CQ and 73 and a host of other magazines at a substantial discount via the Munhalls in Escondido - CA, that is. Their address is: Bob & Collette Munhall, 27898 High St., Escondido, CA 92026. The magazines they can provide subscriptions to at a discount fill two columns on 12 pages and run from **Abitare** to **Zoo Books**. We can get a year's subscription to CQ for \$8.10 vs. the publisher's **EIGHTEEN BIG BUCKS!** Or two years for \$14.85 vs. \$33. I can get PC World for \$13.46 vs. \$29.90. Dennis says he's used them for 10 years with no problems except that it may take 2-3 months to get started. If you're renewing a magazine subscription from another source or from Munhills, send the old mailing label with your order. You must regnu three months before expiration to maintain continuity. You may subscribe for one or two years and will then be on Munhalls' mailing list. Further, write out Seventy Three vice 73 when ordering. The prices sure look great on most of the magazines. If you have questions: call Dennis, N6KI.

RICK RISLEY, WV6K SAYS THANKS

Rick Risley, WV6K, former faithful net member and liaison station for the former North (now San Diego County) County Traffic Net sends along his thanks from his present QTH in Pahoia, Hawaii. He says: "To the members of the Palomar ARC and the members of the North County Traffic Net, a special thanks to you all for introducing and educating me in proper traffic handling procedure. Your friendly attitude and dedication to the NTS along with your patience in educating new members has enabled me to become a NTS Liaison between the West Coast and Australia, along with the appointment to Section Traffic Manager for the Pacific Section."

Thanks Rick; 73 and aloha to you too.

JOIN THE ARRL

You support your hobby by belonging to the **PARC**. The American Radio Relay League is the national entity to which you should belong. Where else lobbies for our wonderful hobby?

When joining/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 Treasurer Ron, WI6B. New ARRL membership application which include the PARC number (1703), garner the Club \$5 - and it doesn't cost you a fat farthing more!



DOWN THE TOOBE

Mike Sanford, N6WUY, is leaving us at the end of June to go to New York Medical College. Congratulations but we're sorry to see you leave. We also have lost Lanny Goodman, N6CEK, who has deserted us for Tijeras, New Mexico. 73 Lanny, and thanks for the tower climbing.

Doc Saltzberg, N6UZG, has left us for Oregon. Guess there's there's no water shortage up there - just remember to rotate daily so the moss won't grow on one side only.

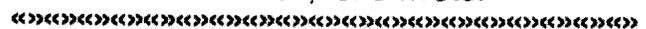
Nick Andree (used to be Highway Electronics) is back in business until he can sell out again. His stock of surplus electronics gear was bought up and shipped to the Philippines last year and Highway went out of business. Now he's got it all back again as the buyer got it to the islands and found it would cost him \$50K to get it into the country. Guess he got it back at a good price. Same place: 305 Wisconsin, Oceanside. Give it a look. The price should be right.

Our thanks to Guy Rowlett, KB6AI, for his donation of equipment to the Club. Thanks also to Dennis, N6KI, for cleaning up and selling Guy's gear for him; and for doing likewise with the gear Guy donated to the Club.

Somebody reads the Scope. Proof was in a note from the Munhalls (see BEEG DISCOUNT IN MAGAZINE PRICES on this page) enclosing a card from "George Lee" which said he had seen the article in the Scope on the Munhalls' prices and would like a price list. With his note to the Scope, Bob Munhall enclosed a price list (45¢ postage on it) and asked us to send it to good old George - who had provided **NO** return address - and **NO** call sign on the card and lots of George Lees in the book, but not in the Club. George, the Munhalls sent your price list - - to me and I don't have your address.



"That's all," she wrote.





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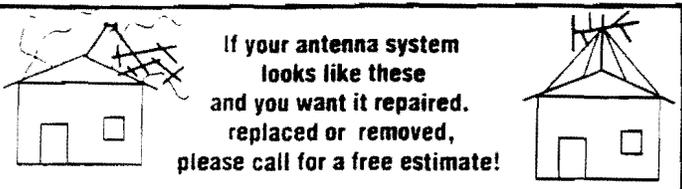
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PARC ENLISTMENT/REENLISTMENT APPLICATION

Mail form with \$\$ to PARC, P.O. Box 1603, Vista, CA 92083-0530 or hand to Jo, KB6NMK, at club meetings. Dues (including SCOPE) are \$12 a year plus \$9 for each additional 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. Consider paying for two or three years at time. Call, name, and complete address are required. Telephone number may be unlisted in roster if requested. Other information requested below may be omitted if you feel uncomfortable providing it to the Club.

Call _____ Name _____

Expires _____ Address _____

Class _____ City _____ State _____ Zip _____

Old Call _____ Phone # _____ home _____ work _____ Other _____

Date 1st licensed _____ Birth date _____ Thomas Brothers location, page # _____ coord _____

Names & calls of family members in PARC _____

ARRL _____ RACES _____ ARES _____ Red Flag _____ Blood donor _____ Type _____ Comments: _____

-----DOTTED LION-----

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Scope

W6NWX

Palomar Amateur Radio Club Inc.

POST OFFICE BOX 1603, VISTA, CALIFORNIA 92083-0530

W6NWX/R 146.730(-), 449.425(-), 145.050(Packet). KA6UAI/R 147.130(+)(PATCH). WD6HFR/R 224.900(-). WA6IPD/R 146.175(+)(PATCH)

VOL. XXV, NO. 8

August, 1990

PRESIDENT:	Stan Rohrer, W9FQN, Valley Center	749-0276
VICE PRES:	Jack Hanthorn, KI6JM, Vista	598-0420
SECRETARY:	Nash Williams, W6HCD, Bonsall	728-3574
TREASURER:	Ron Wilhelmy, WI6B, Rancho Santa Fe	756-3133
SCOPE EDITOR:	Ralph Crossman, K6HAV, Vista	727-5866

► PALOMAR AMATEUR RADIO CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the CAFETERIA at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido Ave. in Vista. Parking in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome. Meetings are NOT a function of the Vista Unified School District and are NOT sanctioned by the school district board of trustees. See.

► CLUB MEMBERSHIP is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first family member, and \$9.00 for each subsequent member at the same address. See application on last page. Membership/subscription matters, changes of address, P.O. Box 1603, Vista, CA 92083-0530. Material for Scope to PO Box 73, Vista 92083 by Wednesday, two weeks before the club meeting.

☉ ✨ ● ● ✨ ☉ DISCLAIMER ☉ ✨ ● ● ✨ ☉

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.

AUGUST CLUB MEETING

At the August meeting, back in the Lincoln Middle School cafeteria, we will hear from Merit Arnold, W6NLO, owner and proprietor of WestCom and RF Parts; and Steve Lagaisse (awaiting license) who will tell us about the Diamond Antennae; and about their AR-3000 10M transceiver.

If you have an item for sale, bring it for the Sale Table at the meeting, tagged with name, call and minimum price if any. The Club takes 10% and you go home with \$\$ (of course, you'll have to buy something new to hold down the garage floor.

You might also think to bring some tasties for Art, KB6YHZ, to put out for the ravening horde.

JULY CLUB MEETING

At the July meeting, at the Carlsbad Safety Center, Bruce Smith KB6MCU, gave us an excellent and informative illustrated talk about Amateur Television on the UHF bands; and showed us how cheaply and easily one can be on ATV.

The minutes of the previous meeting and the Treasurer's report were heard, as were committee reports. Stan, W9FQN, reported on the Club's efforts on Field Day; reporting the highest total contacts and score in the Club's history. John, WB6IQS, told us about on-going work on the repeater and that which is planned. Repeater "hang-up" and "kerchunking" problems were discussed.

Goodies were tasty - courtesy of the thoughtful. 76 of us attended, including a few who make all of the Carlsbad meetings but never are able to take that awesome plunge and *actually join the club!*

LATEST CALL SIGNS

The last Sixth Call Area calls issued by the FCC on 7/1/90 were: AA6WS, KK6MJ, N6ZNT, KC6MHR.

ANNUAL CLUB PICNIC

The Club's annual picnic will again be held at Dixon Lake in Escondido on Sunday, August 12. The location in the park will be the same as last year - 7/10 of a mile from the gate.

Dinner will be at 12 noon, a potluck - everybody bring something. Folks with surnames starting with the letters A through F to bring a salad, G through M a casserole or meat dish, and N through Z a dessert. Bring enough to feed your family and a few others.

If you'd like to arrive early for boating, fishing, or fun and games, do so. Arriving by 0900 is a fine idea as the park may be closed to vehicles when the parking is full. Costs \$1 per vehicle to enter the park. To get there, take I-15 to El Norte Parkway and go east on El Norte to La Honda Drive. Turn left (north) on La Honda. Go up the hill on La Honda to the park entrance. Pay your \$1 and enter the park, going .7 miles to the parking area adjacent to the Club's reserved location. A short walk then gets you and all that good food you've fixed (bought) to where you can join the madding throng. W9FQN is threatening to again have a T-hunt so bring a you HT and keen sense of "where it's at" and achieve instant fame or notoriety (depending on your ability on display for the sneering on-lookers).

The prizes for the picnic drawings will be \$500 in gift certificates, redeemable at your local health food store (otherwise known as HRO). First prize: \$250, second: \$150, third: \$100. There will also be smaller prizes (hopefully donated by HRO) to soothe those of you unlucky enough not to have won all of the \$500 in prizes. The drawing will be held at 1300.

Prizes may be won at the picnic drawing by skillfully having tickets lucky enough to win. These tickets will be handed out at the August club meeting and at the picnic. The number of tickets which each of us may be issued depends on how faithfully we've signed the sign-in sheet at club functions including picnics, field days, and club meetings. (It is not true the Executive Committee has secretly awarded its members thousands of extra tickets based on their good looks, perspicacity, political acumen, fine business sense and sheer, raw greed.) Tickets will only be issued at the August club meeting and at the picnic. Tickets will be issued only to those who are current club members. Your tickets may not be picked up by someone else unless they have your signed authorization to do so. Your tickets must be in the hopper at the picnic for you to have a chance to win. You or your designated (in writing) agent *must be present* to claim your prize. Unclaimed prizes go back into the hopper. The Club will not act as your

agent. You are responsible for your ticket(s).

MEMBER INFORMATION

⊙ GNU MEMBERS: Mike Potter, Vista; Ed Woodbridge, K6CPF, Vista; Mark Divecchio, K3FWT, San Diego; Charles Hitney, W7IRE, Escondido; Paul Crow, KC6LTY, San Diego; Ed Roberts, KB6RIW, Carlsbad; Ed Jorgensen, N6UWG, Escondido; George Shippey, N6YMH, Fallbrook; Steve Watzke, N6ZJU, San Diego. Welcome.

⊙ RENUDE MEMBERS: Ray Harland, N6AMD; Allen Willett, N7AMR; Don Wilson, W9AOX; George Swenson, KB6AQS; Lane Arbuthnot, KC6AST; Ron Wilhelmy, W16B; Michael Wagner, KC6BHE; Vanessa Harvey, WB6BHE; Jack Honts, WDØDLW; Bill Fleischmann, KE4EY; Warren Lincoln, W6EYP; Al Goepfinger, W6FXL; Al & Mickey Fahnestock, N6GNB & N6GWJ; Gordon Wenz, N6GW; Ralph & Pat Crossman, K6HAV & N6INN; Al Thiele, W7HGS; Joe Craig, W6HLB; Charles Weber, N5HTC; Dan Pugh, WA6HYB; Jim Yacabucci, K6HZ; Ed Holm, K6II; Art Smith, W6INI; Ray Hickman, W6IZS; Walt Huckabay, W6JRQ; Floyd Harvey, W6JSP; Phil Leonelli, WF6L; Dick Dipert, N6MYN; Howard Gates, W4NYU; Dick Powell, W6OML; Dave Lien, W6OVP; Paul Heisman, KA6PPD; Doug Gordon, K6PUN; Ken Seals, KA5Q; Norm Rath, N6QQF; Loreen Wilhelmy, N6RAO; Richard Mirdas, KF6RX; Bob Gates, WB6TBA; Mark Moskowitz, AA6TR; Ron Earl, W6TXK; PJ Mead, N6UCJ; Steve Barry, N6UIA; Vern Leming, AA6UU; Roger Jaffe, N6UUW; Lou De Beer, ND6W; Roy Martin, N6WVZ; Jer Balke, W6YLA; Tim Ames, WA1ZEN.

⊙ NEW LICENSES/CALL SIGNS: Don Saba, AA6WS, from N6SYF; Vern Leming, AA6UU, from N6WBO; Benton Caldwell, KK6LX from N6MVZ; Roy Martin, N6WVZ, from KC6BWS. Congratulations.

⊙ ERRATA: Sorry we gave new member Curtis Taylor, N6XXU, Sam Stidd's callsign. I need better glasses to tell a U from a V. (Sam's callsign is N6XXV.) We also gave Sandy Williams, N6YWV, the wrong call, Crystal ball RFI again?

WANTED

Color monitor for C-64 in good condx and reasonable price. Call Henry, WBØYCO, 772-5394 11 p.m to 7 a.m and leave message.

Ant. tuning unit BC-729; speech amp BC-614; Field Telephone EE-8; JB-49 junction box; MC-269 table; mast sections MS 49, 50, & 51, 52 & 53; mast bases MP 22 & 47; SCR-211 freq. meter; JB-60 junction box; cord (cable) assys CO 313, 314, 652; & reel DR-4. 10M beam; 100W low drive linear amp for 10M FM, prefer 12VDC equip. Call Mick, W6FGÉ, 222-3912.

Working Icom IC-22A. Dennis, N6KI, 271-6079.

Editor for the SCOPE. The hours, pay, and benefits are great - and I lie a lot. Want to give it a sh call 727-5866.

»»»»» PRESIDENT'S MESSAGE «««««

###+++ HAM CALENDAR +++###

Jul 27-28-29	NAS Miramar Air Show
Jul 31	- END PARC club year
Aug 1	- PARC Club Meeting
Aug 1	- START NEW CLUB YEAR NO MORE SCOPES without \$12 dues
Aug 9	- PARC Exec mtg W9FQN

Aug 12	- Palomar ARC Picnic Manzanita Shelter 1&2 (like '89) only members eligible for prizes & over \$500 in prizes available

Aug 24	- ARRL SW DIV CONV \$12 Friday Dinner Cruise SDBay Exhibits, Comm & Org
Aug 25	- Breakfast Speaker Saturday Exhibits, Comm & Org Flea Market 8-12 am Technical Sessions ARRL Forum, W4RA Banquet, WA4SIR WOUFF HONG Midnite Amateur VE Exams Hospitality Suite
Aug 26	- Breakfasts, DX etc Sunday Exhibits, Comm & Org Technical Sessions Unclaimed Prizes T-Hunt 1pm 146.565 Hospitality Suite
Sep 5	- PARC Club Meeting (Send calendar items to W9FQN)

###+++ P I C N I C +++###

The Palomar Amateur Radio Club Picnic will be Sunday, August 12th, at DIXON LAKE where we have held it the past three years. You will be charged \$1/car as you enter. We are supposed to claim the shelter by 10am so plan on being there a little early so that you will be assured of a parking space.

If you come early, you might be able to take the young ones fishing or hiking around the lake or just vist with your fellow hams. It is our plan to have some of the following activities available at the picnic (bring HT's):

Hidden transmitter instruction

Hidden transmitter hunts
Measuring of transmitter power
CW demonstration/tests

Additional information on the schedule of events will be given at the August meeting when you pick up your picnic tickets.

###+++FALLBROOK REPEATER+++###

Art Rideout's WAGIPD/R repeater is now affiliated with the Palomar Amateur Radio Club. This repeater is located just to the west of Red Mountain in Fallbrook and PARC members are invited to use the repeater when in the Fallbrook area along with the Autopatch. Information on the repeater is as follows:

Freq 146.175(+), Pwr.80 watts
Elevation : 1000'
Control Operator : WAGIPD
Auto-patch: yes, (5 min timer)

Please note that you do need a 5B (162.2Hz) encoder to access the repeater (sorry, but tone encoders are becoming a fact of life). We would like to suggest that you try hitting the repeater from your home QTH or while in the car and let us know what sort of coverage the repeater enjoys.

The following areas are served by the autopatch:

Emergency: 911 , Pauma Villy: 742
Villy Center: 749, Pendleton : 725
Escondido : 751
Fallbrook : 723, 728
O'side: 430, 433, 434, 439, 722,
725, 729, 757, 966, 967
Vista : 598, 630, 724, 726, 727,
758, 940, 941, 945

Use the patch as follows:

- 1) "N6YZZ with patch access"
- 2) Transmit "4-3-2-1"
- 3) Wait for dial tone
- 4) Dial your number
- 5) Talk
- 6) End patch with "#"
- 7) "N6YZZ clear of patch"

Please make all calls as short as possible. Do not discuss business or anything related to business.

Comments: All other prefixes will be rejected; if you cannot get a dial tone, the previous user may not have hung up properly; transmit "#" and try again; if you still cannot access the patch, hang up and try again in a few moments since the patch is on a shared line; Art-WAGIPD's phone number is 728-6834; the only repeater presently on this frequency is in Whittier.

The KAGUAI/R patch on 147.130 should be operational by the time you receive the newsletter and we will give you the codes and prefix areas at the next club meeting and in the next newsletter. YOU WILL NEED A PL to use the 146.175 and the 147.130 autopatches.

DO NOT DISCUSS the access codes over the repeater although you may feel free to dial up the autopatch for someone else.

###+++ FIELD DAY +++###

On June 19th the Field Day Committee held a planning session under the direction of Bud-KG6VX and Dennis-N6KI at the Round Table pizza in San Marcos where the finer points of FD operating were explained by Dennis. Those attending were: Orlando-N6QVW, Eleanore-N6QJE, Mark-AA6TR, Paul-KZ6X, Brian-KF6BL, Yung(wife of KF6BL), Larry-WQ6V, Bud-KG6VX, Barbara-KAGFPS, Dennis-N6KI, Randy-WB6KYC, Jack-KI6JM, Nancy-N6FZN, PJ-N6UCJ, Vina-N6PQQ, Don-WB6FWE, Karl-N6WLX, Terry-N6UZH, Duane-WB6R, Bill-WD6AHW, and Stan-W9FQN.

The purpose of Field Day is for the club to demonstrate that it has the equipment and manpower to mount a sustained effort under emergency conditions for 24 hours (or longer). Everyone participating in FD this year needs to be congratulated for an outstanding effort. Our Field Day Chairman, Bud-KG6VX, has given me the scores over the last six years:

Yr	Total QSO	CW QSO	Phone QSO	Total 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

According to the ARRL June 29th letter, "Conditions were - to put it gently - rotten. But they tested our mettle as communicators, and that's what ARRL Field Day is all about. Novices in particular, lulled by superb 10 meter conditions the past couple of years, may have been shocked by the white noise on the band over the June 23-24 weekend." Just think. Poor conditions and we scored almost 1,300 contacts better than last year! Our Novice/Tech station broke our recent 10 meter contact record by 200%.

The big improvement this year can be attributed to several things: 1) better preparation and equipment (towers-beams), 2) Terry-KB6UZH's Novice/Tech station, 3) Mark-AA6TR's new CW station, 4) and Dennis-N6KI's telling everyone where to go. With all of these stations on the air we had little interference because of the band-pass filters Dennis-N6KI and John-WB6IQS manufactured. John also built up four AC filters which helped several stations with an AC hash problem. We were prepared!

EQUIPMENT=>

We now own one house trailer with operating positions for 2-3 operators; one tower trailer with a 40' crankup tower on the roof and operating positions for 2-5 operators; 50% interest in a 35' air pump-up tower trailer; one portable crankup, 10' to 45', with portable base; two portable 20' to 37' crankup towers with portable bases; two tri-band beams, and mono-band beams for 20(2), 15, 10 and 2 meter; and a 3.5KW/H generator. We have a 10' section of Rohn-25 tower and hinged base

which we would like to expand another 30' so if anyone knows where there are some more sections of Rohn-25, please let us know.

Many thanks to the following club members for a big effort that really paid off this Field Day ==>

Bud-KG6VX: Field Day Chairman, paperwork, towers, welding, and generator repair.

Jack-KI6JM: 80 SSB Chairman, towers, general handi-man.

Dennis-N6KI: 20 SSB Chairman, idea man, pusher, driver, and on everyone's case to get it done and done right. Trailer, and chief programmer.

Orlando-N6QVW: steel working man, machined gussets for portable tower bases and had all of the right equipment for the work to be done.

Duane-WB6R: #1 CW station Chairman, engineered a CW station that was high tech and manned by excellent CW operators.

Paul-KZ6X: 40 and 15 SSB Chairman, an excellent operator who knows how to get the job done with little direction from anyone. He received excellent help from Brian-KF6BL who installed the antennas and from PJ-N6UCJ who helped with the 40 meter operation. PJ will soon be moving to Salt Lake City where he will work with a college ROTC program.

Mark-AA6TR: 80 and 40 CW Chairman and excellent CW operator who gathered others around him to set a club record on 40 CW, and the "new kid on the block."

Terry-N6UZH: 10 SSB Novice/Tech Chairwoman. Her group set a club record on 10 SSB with 310 contacts, also a "new kid on the block."

Bill-WD6AHW: VHF/UHF/Packet Chairman filling in for Steve-N6UIA who at the last minute had other obligations but was still able to come out and participate for a while.

WAIT TILL NEXT YEAR!

###+++ S.W.Div.Conv. +++###
The South West Division

Convention, August 24, 25, and 26th, is moving along quite nicely under the able direction of Sybil Allbright-W6GIC. PARC has responsibility for seeing to it that all of the companies that have bought booth space (123 booths) in the convention center get to their numbered booth. We will be needing club members who are free on the 23rd or the 24th and have HT's to help exhibitors get moved into their locations. This is an excellent opportunity for you to meet the "higher ups" in well known companies and see some of the products before the convention starts.

We will also need PARC members to help with the "exhibitors hospitality" booth on the 24th, 25th, and 26th. We need to see to it that they have a place to rest and relax for a few minutes during the exhibition hours - again a great place to meet the top brass and talk to them.

We already have a few members signed up to help but we will be needing about 20(+) helpers so your "tour of duty" will not last very long. So far we have: N6QJE, KA6FPS, N6QDB and N6YZZ - and we need more!

- ###+++ T H A N K S T O +++###
- * Marsh-W6SAX for the 0.5" knob - and the boat anchor which was attached to it!
 - * Jerry-KJ6ES for the donation of a 20'40' crank-up tower with a 10' mast. Jerry Earl is moving to Las Vegas this month with his wife, Cindy-N6MOI. Their son, Richard-N6PPD, is an MP in Panama City working with the local policia and learning lots of Spanish.
 - * Elenor-N6QJE for consenting to help with the booths at the convention in San Diego this August.
 - * To James-N6WTE for consenting to take the Sunday ARES net for July.

73, de Stan - W 9 F Q N

VOLUNTEER EXAMINER PROGRAM

At the July tests our PARC VE team gave ten test elements to six applicants, two of whom passed a total of five elements.

Our test crew was: K16JM & KE6VX reception & processing; WB6R, CW exams; KB5MU, KS6S, and AA6UQ examiners; and paperwork by AA6OM and K6HAV.

This was my last time as the PARC VE Team Leader - at least for the next year or so. My thanks to all of our VEs, who have served so well for so long. We must have been doing something right based on the number of folks who have traveled great distances to be tested by us. Thanks to Rusty Massie, AA6OM, who has stepped forward to continue the Club's part in the VE program. de K6HAV.

► FCC LICENSE EXAMINATIONS in north county are conducted by the PARC VE Team, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month at 10:00 a.m. Walk-ins are not accepted - an appointment is required.

► Examinations are also given under the auspices of SANDARC-VEC on the 1st Saturday in El Cajon, the 3rd in Normal Heights, the 4th in Chula Vista, and, in Escondido at the New Life in Christ Church, 300 Broadway, by the Escondido Amateur Radio Society on the last Saturday. Information on all SANDARC-VEC-sponsored exams is available by phoning 465-EXAM.

► Applicants must send a SASE (Self-Addressed Stamped Envelope), a completed, signed FCC Form 610 (NO PHOTOCOPIES) and copies of license(s) and Certificate(s) of Successful Completion, if any, to SANDARC-VEC, Post Office Box 2446, La Mesa, CA 92044 10 days before the test date. Bring ORIGINALS of licenses & Certificates.

HAM POSTAGE STAMP REPLICA PINS AVAILABLE

The Club still has some of the nice amateur radio postage stamp replica pins for sale at \$5 a pop. See Ron, W16B or Stan, W9FQN.

NEW TEST PROCEDURES FOR DISABLED

ARRL Letter says the FCC has announced that people with certain disabilities will get a break on Morse code requirements. With a doctor's certification, a CW sending test may be used; the test may be done orally; and in some cases a "code recognition" test may be used. Rules are being drafted. Another source states the FCC, "under heavy political pressure approved the waiver of the code test for a severely handicapped person", setting a precedent. *Really* some HEAVY pressure - the Congress and the Defense Department couldn't put enough pressure on the FCC for us to keep the bottom of the 220 mHz band. Film at 11:00.

FORESAIL

Hal CWR-6850 CW/BAUDOT/ASCII Telereader KSR Terminal. Separate keyboard, includes built-in CRT Screen. RTTY, MORSE Demodulators, operates from 12VDC. List \$995. Used one hour. \$300 firm. Call Dick, W6OML, 714 672-3871 eves.

Swan 270 Signet HF xcvr w/AC/DC pwr supplies built in, mike, and Swan field strength meter. Call Ray, W6BHF, 487-4423.

Commodore C-64 computer, 1525 printer, 1541 disk drive, and 1530 Datasette. All for \$150. Call Jack, N6OPD, 434-2217.

Cubic 20A, 12VDC pwr supply w/built in spkr & phone jack, \$60 obo. Heath SW-717 shortwave rx, mint, \$25. Call Dan, WA6HYB, 433-4445.

10-20M 2-elm. quad, \$130; Heath SB-614 Monitorscope, \$65; AEA CP-1 w/text for C-64, \$65; Realistic Pro-34 handheld scanner, \$120. Call Alan, WZ6F, 693-1538.

Radio Shack DX-4000 rx, mint, \$50. Paul Lacky, N6ISC, 155 S. Las Flores, #76, San Marcos, 92069.

2M Ringo, \$10. Call Jerry, WB6FMT, 758-4388.

Brother HR15 LQ printer, \$150. Call Lloyd, W6TFB, 757-9374.

As new Kaypro II w/manuals & software, \$200; Heath scope O-11, \$50; McMurdo Silver FM/TV sweep gen, \$25; BC-348 WWII rx, \$50; RCA Radiomarine CRM-R1A rx, \$50; HV pwr supply 2,350 V @ 200 ma. or 1,000 V @ 300 ma, on chassis, unwired, \$50; 750 VA AC line volt. reg., \$50. Call George, K6YGG, 755-1014.

Kenwood TW-4000A 25W 2M/450 mHz dual-band FM XCVR w/tone encoder, \$350; Ass'td coax switches. Call Ralph, K6HAV, 727-5866.

Ass'td tubes all test good, \$1 ea. Call Dennis, N6KI, 271-6079.

REPEATERS

There has been a problem with the 146.730 repeater "kerchunking," "hanging-up," and timing out. The probability is the problem is internal, but it is a possibility the problems are due to an external signal. To confirm or deny the latter, we need club members' help by listening on the repeater input (146.130 mHz) with the squelch set on edge so that a weak signal on the input may be heard. If you are able to hear such a signal, let W9FQN know so we may take action. Assistance of this sort is easy to give and takes little time and effort. Please help by doing this whenever there is this type of anomaly. We need to know whether it is intentional or caused by improperly tuned equipment.

On 15 July, Stan, W9FQN, went to the mountain top and reset (tightened) the squelch and reset the repeater hang-time to four seconds. At first blush, the problem's magnitude seems much diminished.

SABALINE COMPUTER BULLETIN BOARD
DE DON SABA, AA6WS

Sabaline is one of the oldest continuously running computer bulletin boards in San Diego. As the sysop of this board, and as a relatively new ham, I would like to introduce PARC members to my board. I have recently expanded the system to 300 megabytes of storage, and will relegate the space necessary to build the ham section of the board.

Up to this point, I have downloaded files from other Bulletin Boards to build up the ham section. These files reflect primarily my areas of interest which up to now have been learning code and license upgrading. I hope enough interest will come from the Ham community to share files which you have to build the section so it will be attractive to more users.

As of this writing Sabaline has over 11 megabytes of ham files online. There are files offering code practice and training from your computer. If you are interested in upgrading your license, there are question pools for all classes of licenses with programs to quiz you; and re-quiz you concentrating on those you answered incorrectly. There are files dealing with packet, contesting, beam headings, and equipment mods equipment. And there are files for calculation of ham formulas, satellite files, and lists of interesting scanner frequencies.

The bulletin board also serves the community with general PC utilities and files of interests. The board is open to all callers. Callers are expected to UPLOAD a single file to get additional time online; however, if you register and give your call sign, you will be afforded extra time.

How do you use a Bulletin Board? Well, the first thing to do would be to get a modem and a modem program. Sabaline supports speeds of 300 baud to 9600 baud. For the money, the best buy is a 2400 baud modem. My favorite modem program is TELIX version 3.12. When transferring files from Sabaline to your computer you will need to select a protocol. ZMODEM is one of the transfer choices in the TELIX program, and it allows automated downloading and uploading. Multiple files may be sent or received unattended.

Logging on to the system, you will be asked to register. To do this, just fill in the blanks. You are then shown a series of menus dealing with messages or file transfers. If there is a problem, you can enter HELP. If the system offers too much help, and you want to return to the program, you

can enter N for No, at any prompt to return to the bulletin board. PCBHELP is a file available to be printed out off-line so commands may be perused at leisure.

The files are the best part of a Bulletin board. There are some great people out there who put together a file for their own use and then send it up to share with the world. Most are free programs. Some ask for a donation. Many of the files on the bulletin board have an extension of .ZIP. If a file ends in .ZIP ie. FOO.ZIP, it indicates this file has been compressed. Compressed so it will occupy less space on the bulletin board, and less time to transfer. When you get this file back in your shack, you will want to "UNZIP" it. For this, the file PKZ110.EXE is necessary. This file contains all the necessary info to UNZIP .ZIP files.

Computer Bulletin Boards are plentiful in the San Diego area. The Computer Edge lists over 150. Of these, the RADIO SPORT (formerly Night Owl) is one of the oldest and best organized ham boards in the country. Radio Sport offers files for Commodore as well as other computers.

Radio Sport runs on Wildcat Software, so there are differences in the commands, but the menu systems are excellent. Sabaline uses PCBoard software which is a commercial package that is used on many of the San Diego IBM-type boards.

I usually monitor the 144.760 repeater, on Mt. Palomar and will be more than happy to answer questions about bulletin boards. Feel free to call me on 2M. I also have a mailbox on Packet on 144.760. Digipeat through Agoura to reach me. The ham bulletin board phone numbers are as follows:

Sabaline: 692-1961
Radiosport: 279-3921

WANTED

Color monitor for C-64 in good condx and reasonable price. Call Henry, WB0YCO, 772-5394 11 p.m to 7 a.m and leave message.

Ant. tuning unit BC-729; speech amp BC-614 for BC-610; Field Telephone EE-8; JB-49 junction box; MC-269 table; masting sections MS 49, 50, & 51, 52 & 53; mast bases MP 22 & 47; SCR-211 freq. meter; JB-60 junction box; cord (cable) assys CO 313, 314, 652; and reel DR-4. 10M beam; Low drive 100W linear amp for 10M FM, prefer 12VDC equip. Call Mick, W6FGE3, 222-3912.

Working Icom IC-22A. Phone Dennis, N6KI, a' 271-6079.

All of you salty old hams who know it all just tune out for this page and we'll let the new folks read some of the things which may be helpful to them as they start into ham radio.

ANSWERING THE CALL

There are instances when no one responds to a call for assistance on the repeater. Don't be bashful. If there's a need for assistance, step in and do it - don't wait for someone else. If you are the calling station, I'm sure you're as quick as I to resent those who do not respond.

When calling for assistance on the repeater, stay cool. Be specific about the problem at the outset. Be sure you and the responding station have each others call signs. When some one responds, be clear and concise about WHAT the problem is (three-car accident with injuries), WHERE it is located (I-15 southbound, number 1 & 2 lanes, one mile north of Gopher Canyon Road off ramp). Once your information has been received, STAY ON THE FREQUENCY in case of questions from the safety service being phoned. Highway lanes are always numbered from the lane nearest the center (there's always a number one lane!). If you are the calling station, don't be too quick to give up the ghost and go to another repeater - sometimes I have to go clear across the house to get to the rig - I don't always sit, poised, mike in hand waiting for your call! But if I'm home and listening, I WILL answer your call. You too, please. Make your calls for help selective as the "promiscuous caller" soon gets old.

In phoning in an emergency to the CHP, 911 seems the fastest way to go. CHP responses to quasi-emergency calls on non-emergency numbers are not always happily responded to. 911 is supposed to be used for "felony in progress" or "life-threatening" emergencies, but the rule is: When in doubt, call 911. When using 911 let the responding party know you are an amateur radio operator reporting a fire, accident, felony in progress, etc. in a location other than yours as your phone number and address appears on the monitor at the responding safety agency. If you are in Oceanside reporting a fire in Vista, the call will go to the O'side FD unless it's clear at the outset where the problem is located. You CAN save a life.

TONE ENCODER

A year or two ago, we reported the hum on the 146.730 machine being heard by folks with hi-fi speakers is a 3A (127.3 Hz) tone encoder. If you receive one of the other repeaters on 146.730 nearly as well as you do W6NWG/R, this tone, coupled with a de-coder in your rig will eliminate the interfering station. Most of the new mobile

and base rigs have the provision for adding a tone decoder and for storing the tones in memory with the frequencies and offsets. This does *not* mean that it takes a sub-audible tone to access our repeater. It means a 127.3 Hz tone is needed for another station to access your receiver on 146.730 when you have the encoder turned on. The tone is on the repeater's transmitted signal for your use if you want to. Remember - when your decoder is on, you won't hear anyone on 146.730 simplex unless they are using a 3A encoder on their rig.

TONE DECODER (CTCSS)

The other half of the CTCSS set up is the so-called PL decoder used on some repeaters. Machines using a tone decoder cannot be accessed without the use of a tone encoder by the accessing station. Such a tone decoder is now in use on PARC-affiliated repeaters KA6UAI/R & WA6IPD/R. As we have mentioned many times before, most if not all Southern California repeaters will require tone access due to the high number of machines using the same or adjacent channels. It will become a way of life on the 2M repeaters in our area. Count on it. It's not to keep you out of the repeater, it's to keep the repeater free of annoying grunge and adjacent channel signals so that the repeater is not frequently keyed up (like the 146.730 machine has been for the last several weeks.) Be sure any 2M radio you buy has a programmable tone encoder. You're going to need it more and more.

A WORD TO THE WISE CAN BE TOO MUCH

Not only are the good guys listening to the daily chitchat on the repeaters and simplex. Anybody with a scanner (or a stolen ham rig) can monitor what we say. If it is announced on the air that you and your family are going to be away for a specific period of time it's simple enough for the bad guys to go and rip you off. So don't talk about it on the air. Friends and acquaintances should also remember not to be "Helpful Harrys" by telling those who call you on the air that you are gone for the day/week/month.

It has happened. The first W6NWG/R was stolen by a burglar who heard work crew members directed to the site on the air! There was no other way to find it except by luck as it was in the basement of a house and the antenna was hidden in the trees. Yet the burglar, KRØOK, drove to the site, broke into the house and stole the repeater and the homemade duplexer. To this day we veer away from the on-the-air question of the repeater location - though we have a near neighbor as a full time watchman and have taken other measures.

The point is: There are lots of listeners out there and they're not all good guys! If you don't want the world to know, don't say it on the repeaters.

NOCPS	PASCHKE, VERN	484-7581	9209 SAMANTHA CT.	SAN DIEGO, CA.	92129
W00DLW	HONTS, C. N. 'JACK'	728-0258	244 N. STAGECOACH LN.	FALLBROOK, CA.	92028
N0EVV	PASCHKE, MARY	484-7581	9209 SAMANTHA CT.	SAN DIEGO, CA.	92129
W0LAE	PICCONI, C.J. 'CHUCK'	789-1668	24334 WATT ROAD	RAMONA, CA	92065
K00UPI	TAPLEY, BONNIE		4130 LA JOLLA VIL DR/1073	SAN DIEGO, CA	92123
K00WE	TAPLEY, ROBERT		4130 LA JOLLA VIL DR/1073	SAN DIEGO, CA	92123
W0YCO	KIRSCHNER, B.	722-5394	266 CARISSA DR.	OCEANSIDE, CA.	92056
W1ZEN	AMES, TIMOTHY E.	469-7357	6542 BANTAM LAKE AVE.	SAN DIEGO, CA	92119
W2AUD	SHAUT, STANLEY	485-9509	12850 CAMINO D LA BRECCIA	SAN DIEGO, CA.	92128
W2MRM	MIELE, STEVE	451-5690	12311 LOMICA DR.	SAN DIEGO, CA	92128
W3AAJ	WARD, JAMES M.	484-3110	13587 PASEO CARDIEL	SAN DIEGO, CA	92129
W3ARU	ZIEGLER, PETE	943-8005	3482 SITIO BORDE	CARLSBAD, CA	92009
K3FWT	DIVECCHIO, MARK C.	566-6810	10435 MTN GLEN TERRACE	SAN DIEGO, CA	92131
K3PIX	RUNYON, TERRY S.	726-0595	108 HANNALEI DR.	VISTA, CA.	92083
KE4EY	FLEISCHMANN, WM. (BILL)	759-1947	P O BOX 3908	RANCHO SANTA FE, CA	92067
W4NYU	GATES, HOWARD	449-9841	P.O.BOX 711131	SANTEE, CA.	92072
W4VPI	WIGGLE, JERRY	941-9018	149 VERA CIRCLE	VISTA, CA	92084
W4YDU	ORAN, SAMUEL	726 2003	2361 VIA SUBRIA	VISTA, CA.	92084
K65FR	ALBRECHTSEN, LOUIS	941-0725	845 HAMPTON CT.	VISTA, CA	92083
N5GZP	SELLERS, STEVE	433-3648	4232 FIESTA WAY #8	OCEANSIDE, CA.	92056
N5HTC	WEBER JR., CHARLES E.	273-0406	5264 SOLEDAD RD	SAN DIEGO, CA.	92109
K5ILG	ESTUPINAN, MIKE	439-6421	4563 JAMBOREE ST.	OCEANSIDE, CA	92056
K85MU	WILLIAMSON, PAUL T.	458-1238	6583 EDMONTON AVE.	SAN DIEGO, CA.	92122
N5NLV	WEBER, CHARLOTTE	273-0406	5264 SOLEDAD ROAD	SAN DIEGO, CA	92109
K5SQ	SEALS, KEN	944-7373	1521 JUNIPERHILL DR.	ENCINITAS, CA	92024
K6GADV	JACOBS, CLOVER P.	728-0285	28032 VIA DEL CERRO	SAN JUAN CAPISTRANO	92675
W6GAV	RENINGTON, TODD	724-4079	31932 DEL CIELO ESTS.#12	BONSALL, CA	92003
W6AHW	DEWEY, WM. H. (BILL)	728-6912	4878 SAN JACINTO CIRCLE	FALLBROOK, CA.	92028
K6GAI	ROULETT, GUY	697-1408	1750 W.LA HABRA BLVD.	LA HABRA, CA	90631
N6AMD	HARLAND, RAY	746-4584	2602 MARY LANE	ESCONDIDO, CA.	92025
K6GAS	SWENSON, GEORGE A.	569-0993	6460 CONVOY CT. #115	SAN DIEGO, CA.	92117
K6GAS	ARBUTHNOT III, G. LANE	788-1408	24717 EL SEBO PLACE	RAMONA, CA	92065
N6AT	CASSEN, FRANKLIN	728-8003	3909 RECHE RD. SP-22	FALLBROOK, CA.	92028
K6AYJ	NICHOLS, EDITH	728-1717	720 HILLCREST LN	FALLBROOK, CA.	92028
K6GZY	VAN NEST, DAVID	436-1397	1715 HILL TOP LANE	ENCINITAS, CA.	92024
W16B	WILHELMY, RON	756-3133	P.O. BOX 2448	RANCHO SANTA FE, CA.	92067
N6BAD	REBER, JOHN	453-4952	5968 TULANE ST.	SAN DIEGO, CA.	92122
W6BAW	REINICKE, JOHN R.	941-3283	4979 GABRIELIENO AVE.	OCEANSIDE, CA	92056
N6BBB	SINATRA, CARMEN J.	743-5448	2700 E.VALLEY PKWY #85	ESCONDIDO, CA.	92027
W6GBEZ	GONSETT, JUDY	723-2700	2685 ALTA VISTA DR.	FALLBROOK, CA	92028
K6G8GX	LOUNSBURY, GEORGE P.	741-6681	1530 N. ELM ST.	ESCONDIDO, CA.	92026
KE6BH	COUNTRYMAN, BILL	757-2520	2806 MACDONALD ST.	OCEANSIDE, CA.	92054
K6G8HE	WAGNER, MICHAEL J.	448-2428	1518 YOST DR	SAN DIEGO, CA	92109
W6G8HE	HARVEY, VANESSA	741-8391	1195-33 LA MOREE RD.	SAN MARCOS, CA.	92069
W68HF	DOBLER, RAY	487-4423	17142 CLIBUOT CT.	POWAY, CA.	92064
W68IH	TUPANCY, OSCAR	726-0459	1535 SUNRISE DR.	VISTA, CA	92084
K6G8IM	ANDERSON III, WM. J. (BILL)	487-5044	11311 CALEDA RD.	SAN DIEGO, CA	92127
K6G8JM	SANDFORD, GERRY M.	755-5244	2734 CANINITO VERDUGO	DEL MAR, CA.	92014
K68BL	DONALDSON, BRIAN B.	945-0496	821 LOMA ALTA TERR.	VISTA, CA.	92083
W68LL	WILLIAMS, JACK	729-5318	3820 MARGARET WY.	CARLSBAD, CA.	92008
W68ND	SLUYTER, LEONARD J.	878-2165	P.O.BOX 475 1430 N. JACKS	INDEPENDENCE, CA.	93526
W68BNX	DEAN, ROBERT K.	749-9468	13601 WOODSTOCK PL.	VALLEY CENTER, CA.	92082
K68PT	SKINNER, MURIEL 'SKIP'	728-6904	P.O.BOX 787	FALLBROOK, CA.	92028
W68RF	MC CLUSKEY, PAUL		1718 BELLE MEADE RD.	ENCINITAS, CA	92024
W68BRX	BROUILLET, PAUL	745-8070	3131 MARY LANE	ESCONDIDO, CA.	92025
K6GCA	MILLER, RAYMOND	728-3179	4658 S. MISSION RD.	FALLBROOK, CA.	92028
N6CDA	DOUGLAS, MALCOLM	728-9059	533 HILLCREST LANE	FALLBROOK, CA.	92028
N6CEK	GOODMAN, LANNY		7 COUNTY LINE RD	TIJERAS, MN	87059
N6CKQ	BROADBENT, LOUIS C.	755-9179	976 SANTA ESTELLA	SOLANA BEACH, CA.	92075
KH6CM	HARPER, JIM	483-1648	5142 PROVIDENCE RD.	SAN DIEGO, CA.	92117
N6COU	WHIPPLE, BILL	758-7163	1605 WAGON WHEEL DR.	OCEANSIDE, CA.	92056
K6CPF	WOODBIDGE, ED	727-3322	3304 SILVER OAK LN	VISTA, CA	92084
W6GCSH	HAMANN, MICHAEL	481-0770	14169 HALF MOON BAY DR.	DEL MAR, CA.	92014
K6CV	BASTOW, JR., J. G.	484-7035	8733 ELFORD COURT	SAN DIEGO, CA.	92129
K6CZO	ROSS, MARK W.	742-1539	P O BOX 3751 - STE 122	ESCONDIDO, CA	92025
K6GDEM	ROSS, JUDY	297-7758	1419 GOLDEN GATE DR.	SAN DIEGO, CA.	92116
K6G8GR	MAHONEY, BETTY	420-2277	121 ORANGE AVE. SP 84	CHULA VISTA, CA.	92011
W6DNX	LANGJAHN, CARL	726-4010	4644 CORDOBA WY.	OCEANSIDE, CA.	92056
W6GDDC	SALZARULO, MARK	945-1367	5649 ROANE DR.	OCEANSIDE, CA.	92056
K6GDPH	WORKS, GEORGE A.	224-1814	P O BOX 6712	SAN DIEGO, CA	92106
K6GDPN	WORKS, ROBERTA F.	224-1814	P O BOX 6712	SAN DIEGO, CA	92106
W6DSC	WHEELER, DUANE W.	480-9506	P.O.BOX 1989	ESCONDIDO, CA	92025
W6DUR	WAGNER, ROBERT G.	273-0789	3077 JUTLAND COURT	SAN DIEGO, CA.	92117
W6DVZ	RUGG, JIM	630-4386	2333 CATALINA AVE.	VISTA, CA	92084
W6DYV	SWADER, JOHN B.		1455 S. ALTURAS SP# 118	FALLBROOK, CA.	92028

AAGEE	HEISE, DUANE	789-3674	16832 WHIRLWIND LANE	RAMONA, CA	92065
KC6ELD	WRIGHT, GRADEN K.	725-7025	AM CO. SPY BN, FSSG	CAMP PENDLETON, CA	92055
KB6EPD	JOHNSON, ERIC		AIMD 1M3 W/C 64C	FPD SAN FRANCISCO, CA	96618
K6ERW	INSKEEP, CHAS. G.	589-0636	2375 WHITE WING DR.	JAMUL, CA.	92035
W6E5S6	CASTAGNA, ED	726-5236	273 MAR VISTA DR.	VISTA, CA.	92083
W6EVL	NICHOLS, ART	728-1717	720 HILLCREST LN	FALLBROOK, CA.	92028
NH6EW	MC CARTHY, MAC	945-7391	2729 THUNDER DR.	OCEANSIDE, CA.	92056
KF6EX	GOREWIT, HAL	438-7569	6952 WHITECAP DR.	CARLSBAD, CA.	92008
W6EYP	LINCOLN, WARREN	744-5097	1286 DISCOVERY ST	SAN MARCOS, CA.	92069
WZ6F	ORR, JR, ALAN R.		1665 PARVENU LANE	FALLBROOK, CA	92028
W6FGE	MC DANIEL, MICK	222-3912	940 TEMPLE ST.	SAN DIEGO, CA.	92106
NG6FMK	BOWEN, BILL	941-9492	484 VALERIE DR.	VISTA, CA.	92084
WB6FMT	HOUSER, JERRY	758-4388	1073 CYPRESS DR.	VISTA, CA.	92084
KA6FPS	ROHRER, BARBARA	749-0276	30311 CIRCLE R LANE	VALLEY CENTER, CA.	92082
W6FTV	FALLS, EDWARD L.	728-2729	3352 CANONITA DR.	FALLBROOK, CA.	92028
WD6FWE	JOHNSON, DON	758-4187	3140 LINCOLN ST.	CARLSBAD, CA.	92008
W6FLX	GOEPPINGER, ALBERT	745-4436	2161 SUNSET DR.	ESCONDIDO, CA.	92025
KD6FY	BELFIELD, SCOTT P.	487-7005	17083 ABRA WAY	SAN DIEGO, CA.	92128
KC6FZN	HARRIS, WANCY O.	471-2876	915 FAIRLANE AVE	SAN MARCOS, CA	92069
W6GHD	CAREY, RICHARD	224-9300	4003 ORCHARD AVE.	SAN DIEGO, CA.	92107
KA6GHE	PATCHEL, JUDITH	581-2628	3634 JENNIFER ST.	SAN DIEGO, CA.	92117
KI6GI	HOY, TIM	469-2920	P.O. BOX 3734	SAN DIEGO, CA.	92044
W6GGID	GRAHAM, THOMAS	940-0415	3721 SKY HAVEN LANE	LA MESA, CA.	92056
N66JW	FOLSON, RUSS	789-8348	16266 ARENA DR.	OCEANSIDE, CA	92065
KB6GKE	MORRIS, R. S. (STEVE)	433-4257	1224 S. PACIFIC ST #11	RAMONA, CA.	92054
NG6MB	FAHNESTOCK, ALBERT U.	741-1840	1499 E. WILSON AVE.	OCEANSIDE, CA	92054
W6GDS	BECK, DONALD R.	756-2726	P.O. BOX 2372	ESCONDIDO, CA	92027
K6GQS	ESTERLY JR., HAROLD D.	274-4811	4633 EL PENON WY.	RANCHO SANTA FE, CA.	92067
KA6GRG	CALVERT, CHUCK	726-2612	1570 GOODWIN DR.	SAN DIEGO, CA.	92117
NG6W	WENZ, GORDON	222-5575	1055 BANGOR ST.	VISTA, CA.	92084
NG6WJ	FAHNESTOCK, MICKEY	741-1840	1499 E. WILSON AVE.	SAN DIEGO, CA.	92106
WB6SXR	MC BRIDE, WILLERT 'MAC'	561-2211	9493 EMERALD GROVE AVE.	ESCONDIDO, CA.	92027
NG6ZI	ROSS, ED	297-7758	1419 GOLDEN GATE DR.	LAKESIDE, CA.	92040
K6HAV	CROSSMAN, RALPH	727-5866	P. D. BOX 73	SAN DIEGO, CA.	92116
W6HC	HODGSON, CHARLES	272-9778	P.O. BOX 178374	VISTA, CA.	92083
W6HCD	WILLIAMS, A. NASH	728-3574	32001 VIA ARARAT DR.	SAN DIEGO, CA.	92117
WB6HFE	RAMME, FRANK B.	757-9365	331 REDONDO DR.	BONSALL, CA.	92003
WD6HFI	WORMINGTON, PHILLIPP B.	724-4736	1302 HERMANA CT.	OCEANSIDE, CA.	92056
WB6HHV	BROCK, MIKE	566-3799	10230 MAYOR CIRCLE	VISTA, CA.	92084
KE6HI	BOURHENNE, ALMA J.	753-2542	2025 CAMBRIDGE AVE.	SAN DIEGO, CA	92126
W6HLB	CRAIG SR., JOE	757-1272	412 S. BARNWELL ST.	Cardiff by the sea, CA	92007
WB6HMY	LA POINTE, JOE	722-6054	188 EVERGREEN PKWY.	OCEANSIDE, CA.	92054
W6HQH	COPLEY, DAVE	753-2605	1727 GREENTREE RD.	OCEANSIDE, CA.	92054
WB6HSZ	CAMPBELL, JOHN R.	724-1764	324 EAST DR.	ENCINITAS, CA.	92024
W6HTT	SCHMIDT, GLENN A.	727-4004	425 ESTRECITA DR.	VISTA, CA.	92083
W6HW	BAUMGARTNER, VERN		3700 OLDS RD. SP-86	VISTA, CA	92084
NG6HWK	SMITH, N WHITNEY	223-3444	930 ARMADA TERR.	OXNARD, CA.	93030
W6HY8	PUGH, DANIEL C.	433-4445	4660-125 N. RIVER RD.	SAN DIEGO, CA.	92106
W6HYC	WATT, WM. D. "BILL"	439-8814	1733 S. DITMAR ST.	OCEANSIDE, CA.	92057
K6HZ	YACABUCCI, JAMES E.	223-3927	5015 SANTA CRUZ AVE #211	OCEANSIDE, CA.	92054
K6ICG	CARRY, EDWARD	582-7318	5844 KENT PL.	SAN DIEGO, CA.	92107
NGICH	BROWN, THOMAS F.	433-7600	4433 KITTIMAKE WAY	SAN DIEGO, CA.	92120
NGIE	FERRANTO, FELIX	277-8587	7280 TAIT ST.	OCEANSIDE, CA.	92057
K6II	HOLM, EDWARD A.	726-4333	1851 ALTA VISTA DR.	SAN DIEGO, CA.	92111
KK6IL	KOLB, JOHN	789-6015	540 S. KALBAUGH ST.	VISTA, CA.	92084
W6ILH	POTERALA JR., WM. E.		14831 ESPOLA RD	RAMONA, CA	92065
W6INI	SMITH, ARTHUR R.	273-1120	4515 MELISA WAY	POMAY, CA	92064
W6INL	DAU JR. WALTER K.	487-5249	12886 CIRCULO DARDO	SAN DIEGO, CA.	92117
NGINN	CROSSMAN, PAT	727-5866	P. O. BOX 73	SAN DIEGO, CA	92128
WB6IOV	LOWELL, RUSSELL A.	436-6714	7507 QUINTA ST.	VISTA, CA.	92083
W6IPD	RIDEOUT, ART	728-6834	2235 GUM TREE LN.	CARLSBAD, CA.	92009
WB6IQS	KUIVIMEN, JOHN	724-8380	P.O. BOX 1466	FALLBROOK, CA.	92028
W6IRM	INSKEEP, CHAS.C "CHUCK"	722-2201	631 S CLEMENTINE ST	VISTA, CA.	92083
NGISC	LACKEY, PAUL	727-8777	155 S.LAS FLORES #76	OCEANSIDE, CA.	92054
W6IUG	WEST, RICHARD D.	566-7089	10711 CHARBONO TERR.	SAN MARCOS, CA.	92069
W6IWK	PATCHEL, HERBERT	581-2628	3634 JENNIFER ST.	SAN DIEGO, CA.	92131
W6IZK	HALE, WAYNE	471-2983	1208 JADE PLACE	SAN DIEGO, CA.	92117
W6IZS	HICKMAN, RAY F.	466 4702	6818 ROLANDO KNOLLS DR.	SAN MARCOS, CA	92069
NGIZW	BANKE, KERRY	462-2220	6026 POPPY ST.	LA MESA, CA.	92041
NCGJ	CHAMBERS, BOB	560-4560	2247 W. JEWETT ST.	LA MESA, CA.	92041
K6GJA	BERG, PETER	729-8408	P.O. BOX 4207	SAN DIEGO, CA.	92111
W6JJA	BIANCHI, GUIDO	353-0893	1020 W EVAN HEWES HWY #28	CARLSBAD, CA.	92008
KI6JM	HANTHORN, JACK	598-0420	1211 HIDDEN OAKS TRAIL	EL CENTRO, CA.	92243
K6JQE	HEID, PETER R.	755-4838	307 LYWOOD AVE.	VISTA, CA.	92084
W6JRO	HUCKABAY, WALT	722-3248	1047 SHAFER ST.	SOLANA BEACH, CA	92075
				OCEANSIDE, CA.	92054

W6JSP	HARVEY, FLOYD	741-8391	1195-33 LA MOREE RD.	SAN MARCOS, CA.	92069
W6JVS	ROUSE, HARRY A.	757-2260	328 CROUCH ST.	OCEANSIDE, CA.	92054
W6JZB	COOK, WALLY	272-0304	4502 BAMMOCK AVE.	SAN DIEGO, CA.	92117
W6JZU	WATZKE, STEVEN R.	224-8388	1958 SUNSET CLIFFS #113	SAN DIEGO, CA.	92107
W6KAL	MATROS, BECKY		P.O. BOX 882343	SAN DIEGO, CA.	92108
W6KCO	BARTH, JAMES	744-2240	1286 DISCOVERY - SP 53	SAN MARCOS, CA.	92069
W6KCR	WEBER, R. SCOTT	546-0444	6153 STETSON PL	SAN DIEGO, CA.	92122
W6KI	VERNACCHIA, DENNIS	271-6079	8993 COVINA ST.	SAN DIEGO, CA.	92126
W6KJP	ANDERSON, THOMAS	755-0319	13010 PORTOFINO DR.	DEL MAR, CA.	92014
W6KTE	KRIST, R.F.	941-3555	222 HAWTHORNE CIRCLE	VISTA, CA.	92083
W6KVY	WONG, DENNIS		10601A TIERRASANTA BD 162	SAN DIEGO	92124
W6KY	DUTCHER, DAVID	46570831	8466 ABILENE TER	LA MESA, CA	92042
W6KZN	HEITGER, ROBERT L.	324-2955	69-411 RAMON RD #1046	CATHEDRAL CITY, CA	92234
W6L	CONTOGENIS, JOSEPH P.	749-2699	13964 PAUMA VISTA DR.	VALLEY CENTER, CA.	92082
W6L	LEONELLI, PHIL	757-7008	3564 STRAWBERRY PL.	OCEANSIDE, CA.	92056
W6LCT	SEAMAN, LARRY	724-9996	1890 CATHAN LANE	VISTA, CA	92084
W6LNJ	PEARCE, ART	724-6155	3580 TWILIGHT LN.	OCEANSIDE, CA.	92056
W6LTV	HART, LANE	743-7572	1918 PAMELA LN.	ESCONDIDO, CA.	92026
W6LTY	CRAN, PAUL E.	689-0535	11347 RED CEDAR LN	SAN DIEGO, CA.	92131
W6LWD	LEVESQUE, ROY	222-0084	2724 GEARING DR.	SAN DIEGO, CA.	92110
W6LX	CALDWELL, BENTON	729-5161	4150 ADAMS ST.	CARLSBAD, CA.	92008
W6LXA	DIENGOTT, STANLEY J.	583-2053	6525 CRYSTALAIRE DR	SAN DIEGO, CA	92120
W6MBL	ROSS, BETSY E.	272-6395	1252 DIAMOND ST.	SAN DIEGO, CA.	92109
W6MEI	HAMMOND, JOHN	560-9549	2909 SEGO PL.	SAN DIEGO, CA.	92123
W6MFT	NIELSEN, WILL D.	264-1100	1731 REPUBLIC ST.	SAN DIEGO, CA.	92114
W6MMP	FISHER, MICHAEL D.		4829 HIRSCH RD #B	MARIPOSA, CA	95338
W6MQS	PEVNEY, JOE	729-1401	4134 SKYLINE RD.	CARLSBAD, CA.	92008
W6MPZ	LINCOLN, CAROLINE	436-9983	1345 HYMETTUS AVE.	LEUCADIA, CA.	92024
W6MTX	PIERCE, "CHUCK" H.C.	493-4179	33056 SEA LION DR.	DANA POINT, CA.	92629
W6MUM	BAKER, ARTHUR B.	749-3458	8975 LAURENCE WELK DR 390	ESCONDIDO, CA	92026
W6MV	LITTLEFIELD, CHARLES	721-7176	3378 TOURNAMENT DR.	OCEANSIDE, CA.	92056
W6MXM	CHICO, EARL A.	743-0860	525 - 116 W EL NORTE PKWY	ESCONDIDO, CA	92026
W6MYN	DIPERT, STEPHEN "DICK"		PO BOX 127	SANTA YSABEL, CA.	92070
W6NAU	PAKASKI, TED		3731 PARK DR.	CARLSBAD, CA.	92008
W6NBH	DOIG, AL	741-1320	419 EL DORADO DR.	ESCONDIDO, CA.	92025
W6NHV	MC KINNEY, STEPHEN B.	756-2649	BOX 1266	RANCHO SANTA FE, CA.	92067
W6NJY	BOYD, GERALD G.	789-2653	1542 WILSON RD.	RAMONA, CA	92065
W6NKB	GALLEGOS, MARCEL M.	598-0422	2008 SEQUOIA CREST	VISTA, CA	92083
W6NKK	ASHLEY, JD	741-2560	2655 LAS PALMAS AVE.	ESCONDIDO, CA.	92025
W6NNL	ASHLEY, A. J.	741-2560	2655 LAS PALMAS AVE.	ESCONDIDO, CA.	92025
W6NNC	RIVERA, BOB	724-2383	2233 VISTA GRANDE DR.	VISTA, CA.	92084
W6NNI	SCHLESINGER, MARK H.	748-8391	13633 CATAWBA DR.	POWAY, CA.	92064
W6NMP	HEALEY, WILMA		416 BONAIR ST.	LA JOLLA, CA.	92037
W6NNQ	HEALEY, THOMAS		416 BONAIR ST.	LA JOLLA, CA.	92037
W6NQZ	HULBERT, DONALD	724-5431	1022 OLD TAYLOR ST.	VISTA, CA.	92084
W6NRL	KLEIN JR., FRED	727-5429	3505 BADILLO RD	SAN MARCOS, CA.	92069
W6NUV	MC CONAHAY, JIM C.	748-6546	14120 DURHULLEN DR.	POWAY, CA.	92064
W6NUY	COATES, WALTER	439-2165	730 PEARWOOD ST.	OCEANSIDE, CA.	92056
W6NZA	BURGESS, MARY		PO. BOX 271543	ESCONDIDO, CA.	92027
W6NZX	BURGESS, CARL W.		P.O. BOX 271543	ESCONDIDO, CA.	92027
W6O	COOPER, JIM	727-8446	2012 APPLEWOOD LANE	VISTA, CA	92083
W6OBH	MAYES, PETE	744-6213	1700 KINGLET RD.	SAN MARCOS, CA.	92069
W6ODG	STEWART, AUBREY L.	745-4077	196 CALLE GUERNICA	SAN MARCOS, CA.	92069
W6OEI	LUMATI, MATHEW G.	469-2263	4256 SPRING LANE	LA MESA, CA	92041
W6ODH	WALLACE, LEONA	896-1638	2047 STILLMAN ST	SELMA, CA	93662
W6OLQ	TENTOR, JOHN	672-3891	11012 AVENIDA MARIA	SAN DIEGO, CA.	92129
W6OLZ	STEPHENS, JAMES T.	434-2722	3959 SYME DRIVE	CARLSBAD, CA	92008
W6OM	MASSIE, L.B. "RUSTY"	747-5872	1249 NORDAHL RD.	ESCONDIDO, CA.	92026
W6OMA	STEPHENS, VESTA M.	434-2722	3959 SYME DRIVE	CARLSBAD, CA.	92008
W6OML	POWELL, RICHARD A.	672-3871	27250 MURIETTA RD #95	SUN CITY, CA	92381
W6OPD	CRABTREE, JACK	434-2217	3601 LAREDO ST.	CARLSBAD, CA.	92008
W6OPP	BLACKMORE, BILL		1420 PEACOCK BLVD	OCEANSIDE, CA	92056
W6OSR	MAGNET, ANDREW DEAN	539-2065	944 SAPPHIRE ST.	PACIFIC BEACH, CA	92109
W6OVP	LIEN, DAVID A.	485-1538	18215 CORTE DE CASARES	SAN DIEGO, CA.	92128
W6OYG	MUSIL, VICTOR	598-8772	1577 ROMA DR.	VISTA, CA	92083
W6OYJ	MUNN, R. E. (ED)	453-4563	6255 RADCLIFFE DR	SAN DIEGO, CA.	92122
W6SP	STUART, RODGER	741-4002	375 WOODLAND HILLS DR.	ESCONDIDO, CA.	92025
W6SPCF	PARKER, MARKI	272-1409	4166 TAOS DR.	SAN DIEGO, CA.	92117
W6PDZ	BARKER, FRED	726-2616	1341 PHILLIPS ST.	VISTA, CA.	92083
W6PE	MC CARTNEY, DOUGLAS B.	753-9320	3535 SITIO BAVA	CARLSBAD, CA.	92009
W6PEA	BARKER, MARY	726-2616	1341 PHILLIPS ST.	VISTA, CA.	92083
W6PKZ	LOUNSBURY, JERRY	437-8456	357 ALAMEDA BLVD.	CORONADO, CA.	92118
W6PPN	CURRIER, RICHARD E.	271-8326	10880 POINTED OAK LANE	SAN DIEGO, CA	92131
W6PNT	OLSEN, FRED	566-9152	10680 CAMINITO DERECHO	SAN DIEGO, CA.	92126
W6PP	HORRALL, GENE	442-3716	620 ECKEN RD.	EL CAJON, CA.	92020

KA6PPD HEISMAN, PAUL
 NGPQQ DE MONTGREG, VINA
 K6PUN GORDON, DOUGLAS
 NGPYD MURDOCK, JIM
 NGQBI SIMMONS, JEREMY
 WA6QBO WILLIAMS, RICHARD
 W6OCA DAVIS, LARRY
 NGQDB ROHRER, SUSAN
 NGQDK PAIGE JR., CHARLES
 KA6QFF MC CORMICK, MATT
 KB6QH GREGORY, ROBERT
 KF6QH FRANKLIN, JIM
 KD6QJ HANSON, MELVIN R.
 NGQJE CALL, ELEANORE
 NGQMI EGDAHL, JOHN
 K6QQ MORIARITY, JOHN
 W6QQA WARNER, RUSS
 NGQOF RATH, NORMAN H.
 WA6QBO GONSETT, BOB
 NGQVA TRAPOLINO, MARK
 NGQVW VERNACCHIA, ORLANDO
 WB6R STEDMAN, DUANE J.
 NGRAD WILHELMY, LOREEN
 WB6RBJ SINN, FRED
 NGRBS OLSON, KEN
 KI6RF SIMMONS, JACK
 NGRHS STEDMAN, PATRICIA
 KB6RI LIPPETT, GEORGE
 KB6RIN ROBERTS, EDWARD I.
 NGRKE CROSSMAN, GLEN
 NGRKP PARNELL, DAN
 NGRLE HYPNAROWSKI, NANCY
 NGRMM GOODLEY, MARK D.
 WB6RTY NEUMAN, JOHN S.
 NGRUV GRANT, STEPHEN R.
 NGRVO MARTINA, JOSEPH F.
 NGRWB HAW, JR, ROBERT A.
 WB6RWF BROWN, JIM
 KF6RX MIRDAS, RICHARD
 NGRYZ MASON, ART J.
 K56S RICE, BOB
 KB6SAE SELLERS, LINDA E.
 W6SAX PARKER, MARSH
 NGS6Q SHIELDS, FREDERICK V.
 NGSHB PARTIDGE, KELLEY
 KJ6SK BLOODGOOD, WALT T.
 NGSKM KIZER, RON
 WB6SHL HORGAN, JOHN
 KJ6SN FELKER, RICHARD G.
 NGSUN RESCHLY, DIRK
 WAGSVN WANDSCHNEIDER, HERB
 WMGT TILLEY, AUBRA
 WB6TBA GATES, BOB
 WB6TBO MC CORD, BILLY
 NGTCB CARTER, JERRY A.
 WGTDC MILLER, LEE
 NGTEP NIELE, CHARLES
 WGTET SIMPSON, IVAN
 WGTFB HUNT, LLOYD
 KI6TG DOWLING JR., CHUCK
 WGTUO PAUL FLOYD A.
 NGTJT KRAMARICH, CHUCK
 KH6TL HASKELL, SCOTTY
 K6TO TAYLOR, WILLIAM H.
 AA6TR MOSKOWITZ, MARK
 NGTRS TIPPIT, DON
 NGTUQ INGEBRETSEN, DENNIS
 NGTUR WAGNER, LEO F.
 WGTIX EARL, RONALD C.
 WGTZV CRISPELL, HAL
 WQ6U PENNINGTON, WALTER
 KA6UAI THOMPSON, ERIK
 NGUCJ MEAD, PATRICK (P.J.)
 NGUIA BARRY, STEVE
 NGUIT VALADEZ, JOSE "FELIPE"

726-1657 1008 TOROLE CIR.
 726-0353 750 CRESTVIEW RD.
 729-0239 3915 TRIESTE DR.
 742-4269 10942 SAN ANTONIO WAY
 222-4209 4637 ORCHARD AVE.
 757-3734 P.O. BOX 177
 582-4324 6578 CRYSTALAIRE DR.
 749-0276 30311 CIRCLE R LN.
 757-6130 1426 MARSHALL ST
 724-6361 1010-134 E. BOBIER DR.
 461-0124 6365 CASSELBERRY WY.
 726-4022 2174 FOOTHILL DR.
 569-5054 3872 CAMINITO DE TATAN
 729-0850 2248 JEFFERSON ST
 729-2156 4208 HIGHLAND DR.
 4340 MEADOW RD.
 489-0280 1402 WESTWOOD PLACE
 721-1653 1096 TURNSTONE WAY
 723-2700 2685 ALTA VISTA DR.
 632-1264 7727 CAMINITO MONARCA 107
 578-0427 8946 HILLERY DR.
 753-4821 1614 EDILEE DR.
 756-3133 P.O. BOX 2448
 434-8597 1000 CHINGUAPIN AV 8D-4
 741-0040 1406 VIA VALENTE
 222-4209 4637 ORCHARD AVE.
 753-4821 1614 EDILEE DR.
 727-6650 1228 LUPINE HILLS RD.
 729-9115 1305 TAMARACK AVE.
 728-8431 P O BOX 3142
 789-4032 P.O. BOX 1903
 560-4601 3785 MT BLACKBURN AVE.
 480-4477 3120 RYAN DR.
 471-0034 822 LAURELWOOD CT.
 422-4415 434 JAMES CT
 433-6885 4462 IBIS WAY
 470-9238 456 RIDGEWAY CT
 758-4794 3201 MIRA MESA AVE.
 942 5497 3204 FOSCA ST.
 283-7457 P.O. BOX 23555-204
 724-3558 3130 MORNINGSIDE DR.
 433-3648 4232 FIESTA WAY 88
 272-1409 4166 TAOS DR.
 460-9905 5966 DUGAN AVE
 695-9790 10675 RED CEDAR DR.
 758-3276 219 POND PL.
 941-0057 1252 WOODRAIL DR.
 2430 GALAHAD RD.
 728-5795 1616 DICKEY ST.
 743-0404 3518 PRINCE ST.
 722-2803 1029 S. NEVADA
 742-3735 P.O. BOX 429
 729-1976 1777 BUTTERS RD.
 724-3837 222 WASHINGTON ST.
 743-4212 2435 OUR COUNTRY RD.
 724-7460 630 CORTEZ AVE.
 471-0439 856 REDBERRY CT.
 726-7148 3669 JEWEL ST.
 757-9374 3747-102 VISTA CAMPANA S.
 276-6435 3356 APACHE AVE.
 242-8961 1545 RAYMOND
 741-1827 880 E WASHINGTON AV UN. A
 727-8836 1105 HAPPY HILL DR.
 727-1580 3744 BLUEBIRD CANYON RD.
 944-0145 2301 LEVANTE ST.
 723-8319 2233 S STAGECOACH LANE
 672-0775 10645 MATHIESON ST.
 941-6756 1441 PHIL MAR LN.
 566-1959 11372 IRONWOOD RD.
 223-9925 4261 SANTA CRUZ AVE.
 3544 E. SOUTHERN #104
 436-5550 962 HYMETTUS AVE.
 941-9162 977 DARWIN DR.
 747-7496 954 CIMMARON TR.
 271-6079 8993 COVINA ST.

VISTA, CA. 92084
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 SAN LUIS REY, CA. 92068
 SAN DIEGO, CA. 92120
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 OCEANSIDE, CA 92054
 VISTA, CA. 92084
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 CLINTON, WA 98236
 ESCONDIDO, CA. 92025
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 FALLBROOK, CA 92028
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 RANCHO SANTA FE, CA. 92067
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 CHULA VISTA, CA 92010
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 SPRING VALLEY, CA 92077
 OCEANSIDE, CA. 92056
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 LA MESA, CA 92042
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 SAN DIEGO, CA. 92123
 FALLBROOK, CA. 92028
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 OCEANSIDE, CA. 92054
 PAUMA VALLEY, CA. 92061
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 OCEANSIDE, CA. 92057
 SAN DIEGO, CA. 92117
 GLENDALE, CA 91201
 ESCONDIDO, CA. 92025
 VISTA, CA 92084
 VISTA, CA. 92084
 CARLSBAD, CA 92009
 FALLBROOK, CA. 92028
 SAN DIEGO, CA. 92129
 VISTA, CA. 92083
 SAN DIEGO, CA. 92131
 SAN DIEGO, CA. 92107
 MESA, AZ 85204
 ENCINITAS, CA. 92024
 OCEANSIDE, CA. 92056
 ESCONDIDO, CA. 92029
 SAN DIEGO, CA 92126

K6UL	KWIETNIEWSKI, MITCHELL Z.	274-1434	3728 1/2 A INGRAHAM ST.	SAN DIEGO, CA.	92109
AAGUQ	NEUHOVE, JACK	726-9758	1111 PORTOLA ST.	VISTA, CA	92084
NGURW	TYLER, JR., JOHN E.	753-9545	853 SUMRICH LANE	LEUCADIA, CA.	92024
WAGUTQ	RUESSEGER, LARRY	758-5820	1450 HEDIONDA AVE.	VISTA, CA.	92083
AAGUU	LEMING, VERNON LEE	789-3070	413 ELEVENTH STREET	RAMONA, CA	92065
NGUUW	JAFFE, ROGER	697-6025	7185-M NAVAJO ROAD	SAN DIEGO, CA	92119
K6UV	BERNARDINI, F. KERNEIL	295-4788	3506 UNION ST.	SAN DIEGO, CA	92103
NGUMG	JORGENSEN, EDWARD M.	728-1895	4927 LAKE PARK CT	ESCONDIDO, CA	92026
NGUWW	UTSCHIG, ELLEN E.	630-0950	1050-19 LA TORTUGA DRIVE	VISTA, CA	92083
NGUMX	WILLIMAN, KATIE	484-4903	13546 HIKE LANE	SAN DIEGO, CA	92129
NGUMY	WILLIMAN, LEX	484-4903	13546 HIKE LANE	SAN DIEGO, CA	92129
NGUZG	SALTZBERG, GEORGE H. (DOC)		19629 S.W. DERBY CT	WEST LINN, OR	97068
NGUZH	ASHLEY, TERESA "TERRI"	571-3874	7723 LINDA VISTA RD - #20	SAN DIEGO, CA	92111
WQ6V	DE MONTEGRE, LARRY	726-0353	750 CRESTVIEW RD.	VISTA, CA.	92083
KB6VFZ	CONTOGENIS, ALICE	749-2699	13964 PAUMA VISTA DR.	VALLEY CENTER, CA.	92082
K6VGP	MC KAY, RICHARD W. (DICK)	377-2789	27532 ELMBRIDGE DR.	RANCHO PALOS VERDES, CA.	90274
WAGVNR	HYPNAROWSKI, JOE	560-4601	3785 MT BLACKBURN AVE.	SAN DIEGO, CA.	92111
KB6VUD	GRIFFITHS, GEORGIA	942-5082	2207 SERENO VIEW LANE	OLIVENHAIN, CA.	92024
KE6VX	CHANTRILL, ROBERT	727-0606	1961 PINEWOOD RD.	VISTA, CA.	92083
K66VX	LINCOLN, CHESTER 'BUD'	436-9983	1345 HYNETTUS AVE.	LEUCADIA, CA.	92024
ND6W	DE BEER, LOUIS	437-8351	845 E. AVE #C	CORNADO, CA	92118
NW6W	KENT, JOHN L.	729-5254	3920 HOLLY BREA LN.	CARLSBAD, CA.	92008
WB6WGT	HARKER, HARLAND "HARK"	724-2111	607 VIA DEL MAR	VISTA, CA.	92083
NGWHE	LUND, JIM	741-6156	2680 ROSEHILL RD	ESCONDIDO, CA	92025
NGWLY	BRANDT, KARL H.	746-3136	425 N HICKORY ST #205	ESCONDIDO, CA	92025
W6WPO	PRIEST, BILL	727-4279	3535 LINDA VISTA DR - #62	SAN MARCOS, CA.	92069
WB6WQI	MULL JR, EDWARD B.	940-9403	220 E. CONNECTICUT AVE.	VISTA, CA	92084
NGWQR	ROSENBERG, BERNICE	433-0711	P.O. BOX 372	SAN LUIS REY, CA	92068
AAGWS	SABA, DONALD G.	295-8782	2464 MARILUISE WAY	SAN DIEGO, CA	92103
WAGWSZ	HARRY, JOSEPH P.	726-9526	2438-2 E. VISTA WAY	VISTA, CA.	92084
NGWTE	PARKINSON, JAMES	598-1615	254 EL VALLE OPULENTO	VISTA, CA	92083
WAGWTZ	FRANKLIN, OLIVIA	726-4022	2174 FOOTHILL DR.	VISTA, CA.	92084
WB6WUI	SHIRLEY, MIKEL P. "MIKE"	529-7078	P.O. BOX 460	LAKE SIDE, CA	92040
NGWUY	SANFORD, MICHAEL	552-1504	7965 CANINO HUERTA	SAN DIEGO, CA	92122
KB6WX	PATCHEL SR., HERBERT O.	274-6045	4920 DELLA PL.	SAN DIEGO, CA.	92117
KD6WZ	FREY, FREDERICK	729-2991	3449 CORVALIS ST.	CARLSBAD, CA.	92008
KZ6Y	BUSCEMA, PAUL	436-2537	343 WHITWOOD PL.	ENCINITAS, CA.	92024
NGXMY	CALLENDER, WILLIAM H.	566-7290	10861 SANDY HOOK RD	SAN DIEGO, CA	92126
NGXPP	LANDEL, KEVIN L.	944-1396	46 BRIGGS AVE.	ENCINITAS, CA	92024
NGXIU	TAYLOR, CURTIS R.	727-9254	262 EL VALLE OPULENTO	VISTA, CA	92083
NGXIV	STIDD, CHARLES K. (SAM)	481-5286	4005 CARMEL VIEW RD - #61	SAN DIEGO, CA	92130
KD6Y	DOMBROWSKI, DAVE	427-4675	682 ASH AVE.	CHULA VISTA, CA.	92010
NGYAX	STEINWEDDELL, SKIP	727-2875	2096 BUENA CREEK RD	VISTA, CA	92084
K6Y6K	UMINSKI, GEORGE	755-1014	13776 MIRA MONTANA DR.	DEL MAR, CA.	92014
KB6YHY	NYE, ANITA M.	758-0234	1869 ALESSANDRO TRAIL	VISTA, CA.	92084
KB6YHZ	NYE, ARTHUR PAUL	758-0234	1869 ALESSANDRO TRAIL	VISTA, CA.	92084
W6YLA	BALKE, JERRY	758-1134	746 HONEYDEW LN.	VISTA, CA.	92084
WB6YLT	SAMPSON, WILLIAM E.	480-1496	1505 EL NORTE PKWY	SAN MARCOS, CA	92069
NGYMC	LUSBY, PETER	598-9322	P.O. BOX 2256	VISTA, CA	92083
NGYMD	LEPINE, JOE	941-6873	1205 N. SANTA FE -#17	VISTA, CA	92084
NGYMH	SHIPPEY, GEORGE	728-5914	2420 HELEN RD.	FALLBROOK, CA	92028
KB6YNL	ELDER, BILL	481-7967	2529 VIA PISA	DEL MAR, CA	92014
WAGYOD	HODGES, HARRY	743-4212	2435 OUR COUNTRY RD.	ESCONDIDO, CA.	92029
NGYMW	WILLIAMS, SANDY	741-9901	1914 HOWE PL.	ESCONDIDO, CA.	92025
NGYWW	WILLIAMS, BILL	741-9901	1914 HOWE PL.	ESCONDIDO, CA.	92025
NGYX	BELL, BOB	745-3722	1926 ALEXANDER DR.	ESCONDIDO, CA.	92025
W6YVY	BURDETTE, SAMUEL EARL	726-2624	4718 WESTRIDGE DR.	OCEANSIDE, CA.	92056
NGYZZ	ROHRER, LINDA D.	749-0276	30311 CIRCLE R LN	VALLEY CENTER, CA	92082
NG6Z	DENTON, WILLIAM H.	443-8775	9633 FARMINGTON DR.	LAKE SIDE, CA.	92040
WV6Z	PARTRIDGE, DELMAR E.	695-9790	10675 RED CEDAR DR.	SAN DIEGO, CA.	92131
K16ZH	DiDONNA, RICHARD	459-3113	364 VIA DEL NORTE	LA JOLLA, CA	92037
WB6ZJD	NASH JR., F. STEPHEN	726-3817	718 FRANCISCO	EL GRANADA, CA	94018
KB6ZUH	BARBEN, ERIC R.		132 TIMBER DR.	DURANGO, CO	81301
W6ZYW	GESNER, JIM	492-2338	1215 VIA LA JOLLA	SAN CLEMENTE, CA.	92672
N7AMR	WILLET, ALLEN	434-5656	4722 BIRCHWOOD CIR.	CARLSBAD, CA.	92008
N7AS	GRANT, GARY G.	487-8353	16925 HIERBA DR - #336	SAN DIEGO, CA.	92128
KA7BAZ	GOGUEN, ERNEST J.	749-5289	1018 W EL NORTE PKWY 117	ESCONDIDO, CA	92026
WA7BIA	LEWIN, A. A.	753-2298	1166 WOTAN DR.	ENCINITAS, CA.	92024
WL7BLM	MULLINS, DAN S.	434-4741	230 PACIFIC AVE.	CARLSBAD, CA.	92008
KE7BR	TUTTLE, DORA	932-3143	343 PARKVIEW DR.	GOODYEAR, AZ	85338
W7EAI	STEELE, WILLIAM H.	439-3489	4469 WHITE PINE WAY	OCEANSIDE, CA	92056
WA7GRM	TRAYNOR, BOB	578-7425	12414 SEMILLON BLVD.	SAN DIEGO, CA.	92131
W7HGS	THIELE, AL	755-7347	3444 LADY HILL RD.	SAN DIEGO, CA.	92130
KD7HQ	FITTERER, DANIEL	789-0943	2030 BLACK CANYON RD - #4	RAMONA, CA	92065
W7IRE	HITNEY, CHARLES J.	741-7128	475 ROSS DR.	ESCONDIDO, CA	92029

KB7LX LEACH, W.R. "BILL"
 KA7PII TRAYNOR, JUDY
 WR7W KNIGHT JR. JOHN A.
 WT7W O'BERRY, JAMES A.
 K7MLX FELTON, BOB
 AH8AD BURTON, LIONEL "DOC"
 NB7VY KRIDER, BRUCE G.
 N9AKB CARLSEN, KENNETH
 W9AOX WILSON, DONALD G.
 W9FQW ROHRER, STAN
 ASSOC POTTER, MICHAEL R.
 ASSOC BAUM, STEPHEN
 ASSOC HOWALT, BILL
 ASSOC COURTNEY, B.C. "RED"
 ASSOC WOODWARD JR. E. J.
 ASSOC KALAMDER, LEROY
 ASSOC MILLER, PHILIP

P.O. BOX 1228
 578-7425 12414 SEMILLON BLVD.
 530-0355 11224 POLARIS DR.
 2501 WOODLAND BLUFF DR.
 729-5519 4803 NEBLINA DR.
 744-9431 637 RICHLAND RD.
 438-3932 758 POINSETTIA PARK N.
 434-3256 4904 PARK DRIVE
 944-0378 3110 LEVANTE ST.
 749-0276 30311 CIRCLE R LANE
 630-6226 309 GRAPEVINE RD #31
 723-2450 2404 VIA DEL AGUACOTE
 729-6787 3640 CATALINA DR
 527 SAN MARIO
 729-1019 4225 TRIESTE DR
 565-2857 10172 TRUETT LANE
 944-6227 1016 HERMES AVE

APEX, NC 27502
 SAN DIEGO, CA. 92131
 SAN DIEGO, CA. 92126
 HEBER SPRINGS, AR 72543
 CARLSBAD, CA. 92008
 SAN MARCOS, CA. 92069
 ENCINITAS, CA. 92024
 CARLSBAD, CA. 92008
 CARLSBAD, CA. 92009
 VALLEY CENTER, CA. 92082
 VISTA, CA. 92083
 FALLBROOK, CA. 92028
 CARLSBAD, CA. 92008
 SOLANA BEACH, CA. 92075
 CARLSBAD, CA. 92008
 SAN DIEGO, CA. 92124
 LEUCADIA, CA. 92024

Members By Last Name 07-18-1990

K65FR ALBRECHTSEN, LOUIS
 WA12EM AMES, TIMOTHY E.
 KJ6KP ANDERSON, THOMAS
 KC6BIM ANDERSON III, WM. J. (BILL)
 KC6AST ARBUTHNOT III, G. LANE
 N6UZH ASHLEY, TERESA "TERRI"
 KB6NMK ASHLEY, JO
 KB6MHL ASHLEY, A. J.
 WA6MUM BAKER, ARTHUR B.
 W6YLA BALKE, JERRY
 N6IZW BANKE, KERRY
 KB6ZUH BARBER, ERIC R.
 N6PDZ BARKER, FRED
 N6PEA BARKER, MARY
 N6UIA BARRY, STEVE
 W6KCO BARTH, JAMES
 K6CV BASTON, JR., J. G.
 ASSOC BAUM, STEPHEN
 W6HW BAUMGARTNER, VERN
 N6GDS BECK, DONALD R.
 KD6FY BELFIELD, SCOTT P.
 N6YX BELL, BOB
 K66JA BERG, PETER
 K6UV BERNARDINI, F. KERNEIL
 W6JJA BIANCHI, GUIDO
 N6OPP BLACKMORE, BILL
 KJ6SK BLOODGOOD, WALT T.
 KE6HI BOURMENNE, ALMA J.
 N6FMK BOWEN, BILL
 W66MJJ BOYD, GERALD G.
 N6HLY BRANDT, KARL H.
 N6CKO BRADBENT, LOUIS C.
 W66HHV BROCK, MIKE
 W66BRI BROUILLET, PAUL
 W66RWF BROWN, JIM
 N6ICH BROWN, THOMAS F.
 W6YV BURDETTE, SAMUEL EARL
 K66MZA BURGESS, MARY
 N6NIX BURGESS, CARL W.
 AH8AD BURTON, LIONEL "DOC"
 KZ6X BUSCENA, PAUL
 KK6LI CALDWELL, BENTON
 N6QJE CALL, ELEANORE
 N6XMY CALLENDER, WILLIAM H.
 KA6GR6 CALVERT, CHUCK
 W66MSZ CAMPBELL, JOHN R.
 W66HD CAREY, RICHARD
 N9AKB CARLSEN, KENNETH
 K6ICG CARRY, EDWARD
 NGTCB CARTER, JERRY A.
 N6AT CASSEN, FRANKLIN
 WA6ESG CASTAGNA, ED
 N6CJ CHAMBERS, BOB
 KE6VX CHANTRILL, ROBERT
 K6MIM CHICO, EARL A.
 KB6MUY COATES, WALTER

NU6L CONTOGENIS, JOSEPH P.
 KB6VFFZ CONTOGENIS, ALICE
 N6JZB COOK, WALLY
 N6E6 COOPER, JIM
 WA6HOM COPLEY, DAVE
 KE6BH COUNTRYMAN, BILL
 ASSOC COURTNEY, B.C. "RED"
 N6OPD CRABTREE, JACK
 W6HLB CRAIG SR., JOE
 KC6LTY CRAW, PAUL E.
 W6TZV CRISPELL, HAL
 N6RKE CROSSMAN, GLEN
 K6HAV CROSSMAN, RALPH
 N6INN CROSSMAN, PAT
 AA6PM CURRIER, RICHARD E.
 WA6IML DAU JR., WALTER K.
 W66CA DAVIS, LARRY
 ND6W DE BEER, LOUIS
 W6GV DE MONTÈGRE, LARRY
 N6PQQ DE MONTÈGRE, VINA
 W66BNX DEAN, ROBERT K.
 N66Z DENTON, WILLIAM H.
 W66AHW DEWEY, WM. H. (BILL)
 KC6LXA DIEMGOTT, STANLEY J.
 N6MYN DIPERT, STEPHEN "DICK"
 K3FWT DIVECCHIO, MARK C.
 W66HF DOBLER, RAY
 W6NBB DOIG, AL
 K6GY DOMBROWSKI, DAVE
 KF6BL DONALDSON, BRIAN B.
 N6CDA DOUGLAS, MALCOLM
 KI6TG DOWLING JR., CHUCK
 AA6KY DUTCHER, DAVID
 KI6ZH DIDONNA, RICHARD
 W6TYK EARL, RONALD C.
 N66MI EGBAHL, JOHN
 KB6YNL ELDER, BILL
 K66DS ESTERLY JR., HAROLD D.
 KASILG ESTUPINAM, MIKE
 N66WJ FAHNESTOCK, NICKY
 N66NB FAHNESTOCK, ALBERT U.
 W6FTV FALLS, EDWARD L.
 KJ6SN FELKER, RICHARD G.
 K7MLX FELTON, BOB
 N6IE FERRANTO, FELIX
 N6MHP FISHER, MICHAEL D.
 KD7HQ FITTERER, DANIEL
 KE4EY FLEISCHMANN, WM. (BILL)
 N66JW FOLSOM, RUSS
 KF6QH FRANKLIN, JIM
 WA6WTZ FRANKLIN, OLIVIA
 KD6WZ FREY, FREDERICK
 W6NKB GALLEGOS, MARCEL M.
 W4NYU GATES, HOWARD
 W66TBA GATES, BOB

W6ZYW GESNER, JIM
 W6FXL GOEPPINGER, ALBERT
 KA7BAZ GOGUEN, ERNEST J.
 WA6QQQ GONSETT, BOB
 W66BEZ GONSETT, JUDY
 N6RMM GOODLEY, MARK D.
 N6CEK GOODMAN, LANNY
 K6PUN GORDON, DOUGLAS
 KF6EX GOREWIT, HAL
 WA6GID GRAHAM, THOMAS
 N6RUV GRANT, STEPHEN R.
 W7AS GRANT, GARY G.
 KB6QH GREGORY, ROBERT
 KB6VUD GRIFFITHS, GEORGIA
 W6IZK HALE, WAYNE
 W66CSH HAMANN, MICHAEL
 W66MEI HAMMOND, JOHN
 KD6GJ HANSON, MELVIN R.
 KI6JM HANTHORN, JACK
 W6WGT HARKER, HARLAND "HARK"
 N6AMD HARLAND, RAY
 KH6CN HARPER, JIM
 KC6FZN HARRIS, NANCY O.
 WA6MSZ HARRY, JOSEPH P.
 N6LTV HART, LANE
 W66BHE HARVEY, VANESSA
 W6JSP HARVEY, FLOYD
 KH6TL HASKELL, SCOTTY
 N6RWB HAW, JR., ROBERT A.
 N6MNP HEALEY, WILMA
 N6MNO HEALEY, THOMAS
 K6JQE HEID, PETER R.
 AA6EE HEISE, DUANE
 KA6PPD HEISMAN, PAUL
 WA6KZM HEITGER, ROBERT L.
 W6IZS HICKMAN, RAY F.
 W7IRE HITNEY, CHARLES J.
 WA6YD HODGES, HARRY
 W6HC HODGSON, CHARLES
 K6II HOLM, EDWARD A.
 W66DLW HONTS, C. N. "JACK"
 W66SML HORGAN, JOHN
 K6PP HORRALL, GENE
 W66FMT HOUSER, JERRY
 ASSOC HOWALT, BILL
 KI6GI HOY, TIM
 W6JRO HUCKABAY, WALT
 W6N2D HULBERT, DONALD
 W6TFB HUNT, LLOYD
 WA6VNR HYPNAROWSKI, JOE
 N6RLE HYPNAROWSKI, NANCY
 N6TUQ INGEBRETSEN, DENNIS
 K6ERU INSKIP, CHAS. G.
 W6IRM INSKIP, CHAS. C. "CHUCK"
 KC6ADV JACOBS, CLOVER P.
 N6UJW JAFFE, ROGER

K86EPO JOHNSON, ERIC
 W06FWE JOHNSON, DON
 N6UWG JORGENSEN, EDWARD M.
 ASSOC KALANDER, LEROY
 N6W6W KENT, JOHN L.
 W07YCO KIRSCHNER, B.
 N6SKM KIZER, RON
 K86NRL KLEIN JR., FRED
 W077M KNIGHT JR., JOHN A.
 KK6IL KOLB, JOHN
 N6TJT KRAMARICH, CHUCK
 N6FVY KRIDER, BRUCE G.
 W6KTE KRIST, R.F.
 W06IQS KUIVINEN, JOHN
 K6UL KWIETNIEWSKI, MITCHELL Z.
 W06HMY LA POINTE, JOE
 N6ISC LACKEY, PAUL
 N6XPP LANDEL, KEVIN L.
 W6DNX LANGJAHR, CARL
 K07LX LEACH, W.R. "BILL"
 A6GUU LEMING, VERNON LEE
 W06L LEONELLI, PHIL
 N6YMD LEPINE, JOE
 N6LWD LEVESQUE, ROY
 W07BIA LEWIN, A. A.
 W60VP LIEN, DAVID A.
 W6EYP LINCOLN, WARREN
 K66VX LINCOLN, CHESTER 'BUD'
 K86MPZ LINCOLN, CAROLINE
 K86RI LIPPERT, GEORGE
 K16MV LITTLEFIELD, CHARLES
 N6PKZ LOUNSBURY, JERRY
 K068GX LOUNSBURY, GEORGE P.
 W06IOV LOWELL, RUSSELL A.
 N60EI LUMATI, MATHEW G.
 N6WHE LUND, JIM
 N6YMC LUSBY, PETER
 N6OSR MAGNET, ANDREW DEAN
 K86DGR MAHONEY, BETTY
 N6RVO MARTINA, JOSEPH F.
 N6RYZ MASON, ART J.
 A6G0M MASSIE, L.B. "RUSTY"
 N6KAL MATROS, BECKY
 W060BH MAYES, PETE
 W066XR MC BRIDE, WILLERT 'MAC'
 N6HEW MC CARTHY, MAC
 K16PE MC CARTNEY, DOUGLAS B.
 W06BRF MC CLUSKEY, PAUL
 W06NUV MC CONAHAY, JIM C.
 W06TBO MC CORD, BILLY
 K060FF MC CORNICK, MATT
 W06GE MC DANIEL, MICK
 K6V6P MC KAY, RICHARD W. (DICK)
 N6NHW MC KINNEY, STEPHEN B.
 N6UCJ MEAD, PATRICK (P.J.)
 W2MRM MIELE, STEVE
 N6TEP MIELE, CHARLES
 W6TDC MILLER, LEE
 KK6CA MILLER, RAYMOND
 ASSOC MILLER, PHILIP
 KF6RX MIRDAS, RICHARD
 K600 MORTARITY, JOHN
 K86GKE MORRIS, R. S. (STEVE)
 A66TR MOSKOWITZ, MARK
 W06W0I MULL JR, EDWARD B.
 W07BLM MULLINS, DAN S.
 W06YJ MUNN, R. E. (ED)
 N6PYD MURDOCK, JIM
 N60YG MUSIL, VICTOR
 W06ZJD NASH JR., F. STEPHEN
 W06RTY NEUMAN, JOHN S.
 A66UD NEWLOVE, JACK
 K6AYJ NICHOLS, EDITH
 W6EVL NICHOLS, ART

W6MFT NIELSEN, WILL O.
 W06HFI NORRINGTON, PHILLIPP B.
 K86YHZ NYE, ARTHUR PAUL
 K86YHY NYE, ANITA H.
 W077W O'BERRY, JAMES A.
 W6PNT OLSEN, FRED
 N6RBS OLSON, KEN
 W04YQU ORAM, SAMUEL
 W26F ORR, JR., ALAN R.
 N60DK PAIGE JR., CHARLES
 N6NAU PAKASKI, TED
 W6SAX PARKER, MARSH
 K86PCF PARKER, MARNI
 N6WTE PARKINSON, JAMES
 N6RKP PARNELL, DAN
 W06Z PARTRIDGE, DELMAR E.
 N6SHB PARTRIDGE, KELLEY
 N0CPS PASCHKE, VERN
 N0EVV PASCHKE, MARY
 K068HE PATCHEL, JUDITH
 W06IWK PATCHEL, HERBERT
 K06WX PATCHEL SR., HERBERT O.
 W6THU PAUL, FLOYD A.
 K6LWJ PEARCE, ART
 W06U PENNINGTON, WALTER
 W06MOS PEVMEY, JOE
 W06LAE PICCONÉ, C.J. "CHUCK"
 W06TX PIERCE, "CHUCK" H.C.
 W06ILH POTERALA JR., WM. E.
 ASSOC POTTER, MICHAEL R.
 W60ML POWELL, RICHARD A.
 W06WPO PRIEST, BILL
 W06HYB PUGH, DANIEL C.
 W06HFE RAMMÉ, FRANK B.
 N600F RATH, NORMAN H.
 N6BAD REBER, JOHN
 W06BAW REINICKE, JOHN R.
 W06AHV REMINGTON, TODD
 N6SUN RESCHLY, DIRK
 K86S RICE, BOB
 W06IPD RIDEOUT, ART
 W06MNC RIVERA, BOB
 K86RIW ROBERTS, EDWARD I.
 N600B ROHRER, SUSAN
 K06FPS ROHRER, BARBARA
 W06F0N ROHRER, STAN
 N6YZZ ROHRER, LINDA D.
 N6W0R ROSENBERG, BERNICE
 K86DEM ROSS, JUDY
 K06CZD ROSS, MARK W.
 N66ZI ROSS, ED
 K86MBL ROSS, BETSY E.
 W06JVS ROUSE, HARRY A.
 K86AT ROWLETT, GUY
 W06UTO RUEGSEGER, LARRY
 W06VZ RUGG, JIM
 K3PIX RUNYON, TERRY S.
 A66MS SABA, DONALD G.
 N6U2G SALTZBERG, GEORGE H. (DOC)
 W060DC SALZARULO, MARK
 W06YLT SAMPSON, WILLIAM E.
 K06BJM SANDFORD, GERRY M.
 N6WJY SANFORD, MICHAEL
 N6NMI SCHLESINGER, MARK M.
 W6HTT SCHMIDT, GLENN A.
 K06Q SEALS, KEN
 W6LCT SEAMAN, LARRY
 N66ZP SELLERS, STEVE
 K86SAE SELLERS, LINDA E.
 W2AU0 SHAUT, STANLEY
 N6S6Q SHIELDS, FREDERICK V.
 N6YMH SHIPPEY, GEORGE
 W06WUI SHIRLEY, MIKEL P. "MIKE"
 N60BI SIMMONS, JEREMY
 K16RF SIMMONS, JACK
 W6TET SIMPSON, IVAN

N68BB SINATRA, CARMEN J.
 W06RBJ SINN, FRED
 K86BT SKINNER, MURIEL 'SKIP'
 W06ND SLUYTER, LEONARD J.
 N6HMK SMITH, M WHITNEY
 W6INI SMITH, ARTHUR R.
 W06R STEDMAN, DUANE J.
 N6RHS STEDMAN, PATRICIA
 W7EAI STEELE, WILLIAM H.
 N6YAX STEINWEDDELL, SKIP
 K06DLZ STEPHENS, JAMES T.
 K06OMA STEPHENS, VESTA M.
 W60DG STEWART, AUBREY L.
 N6YIV STIDD, CHARLES K. (SAM)
 K86P STUART, RODGER
 W06DYV SWADER, JOHN B.
 K86AQS SWENSON, GEORGE A.
 K06UPI TAPLEY, BONNIE
 K06ME TAPLEY, ROBERT
 K6TQ TAYLOR, WILLIAM H.
 N6XXU TAYLOR, CURTIS R.
 W60LQ TENSOR, JOHN
 W7H6S THIELE, AL
 K06UAI THOMPSON, ERIK
 W06T TILLEY, AUBRA
 N6TRS TIPPIT, DON
 N60VA TRAPOLINO, MARK
 W07GRW TRAYNOR, BOB
 K07PII TRAYNOR, JUDY
 W68IH TUPANCY, OSCAR
 KE7DR TUTTLE, DORA
 N6URV TYLER, JR., JOHN E.
 K6Y6K UMINSKI, GEORGE
 N6UWW UTSCHIG, ELLEN E.
 N6UIT VALADEZ, JOSE "FELIPE"
 K06ZY VAN NEST, DAVID
 N60VW VERNACCHIA, ORLANDO
 N6KI VERNACCHIA, DENNIS
 N6TUR WAGNER, LED F.
 N6DUR WAGNER, ROBERT G.
 K06BHE WAGNER, MICHAEL J.
 W060HB WALLACE, LONA
 W06SVN WANDSCHNEIDER, HERB
 W06AAJ WARD, JAMES M.
 W060A WARNER, RUSS
 W06HYC WATT, WM. D. "BILL"
 N6JZU WATZKE, STEVEN R.
 K06KR WEBER, R. SCOTT
 N5MLV WEBER, CHARLOTTE
 N5HTC WEBER JR., CHARLES E.
 N66W WENZ, GORDON
 W6TUG WEST, RICHARD D.
 N60SC WHEELER, DUANE W.
 N6COU WHIPPLE, BILL
 W04VPJ WIGGLE, JERRY
 N6RAO WILHELMY, LOREEN
 W16B WILHELMY, RON
 N7AMR WILLET, ALLEN
 W060BO WILLIAMS, RICHARD
 W6BLI WILLIAMS, JACK
 W6MCD WILLIAMS, A. NASH
 N6YWW WILLIAMS, BILL
 N6YMV WILLIAMS, SANDY
 K85MU WILLIAMSON, PAUL T.
 N6UWX WILLIMAN, KATIE
 N6UWY WILLIMAN, LEX
 W9A0X WILSON, DONALD G.
 N6KVY WONG, DENNIS
 K6CPF WOODBRIDGE, ED
 A55DC WOODWARD JR., E. J.
 K06DPM WORKS, GEORGE A.
 K06DPM WORKS, ROBERTA F.
 K06ELD WRIGHT, GRADEN K.
 K6HZ YACABUCCI, JAMES E.
 W3ARU ZIEGLER, PETE

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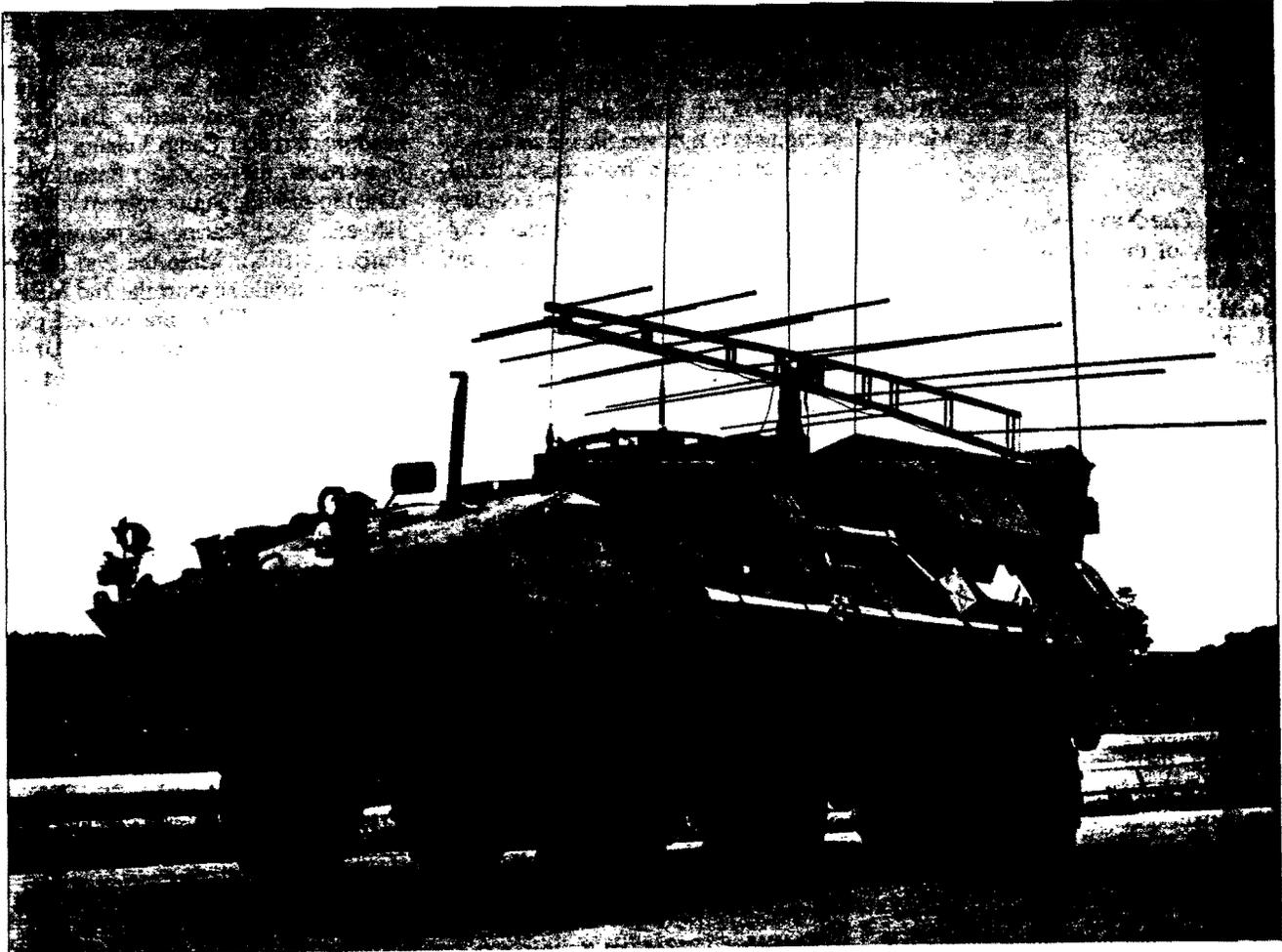
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JAMMERS ON THE REPEATER TO BE HANDLED - THE OLD FASHIONED WAY



The Marine Corps' mobile electronic warfare support system (MEWSS) carries a variety of sophisticated jamming, signals intercept, and radio direction finding equipment. (Photo courtesy of General Motors of Canada.)

Vista, CA April 1 - - PARC Repeater Technical Committee Chairman John Kuivinen, WB6IQS, and Charles Miele, N6TEP, PARC's leading advocate for concerted RDF action against jammers, finally talked the Club into ordering three of the pictured Marine Corps' electronic warfare MEWSS equipments to be used to eliminate jammers - permanently. Renamed RAMBO IV, these units are to be stationed around the county. When a jammer is heard, the RAMBO IVs go into the "DRIVE-TO-THE-SIGNAL" mode, going until the signal disappears. A very efficient, very permanent solution to the Katzenjammer Kids.

TRIAL PERIOD FOR AUTOPATCH ON 147.130 MHZ REPEATER

KA6UAI/R, the 147.130 machine will have an autopatch for the use of club members. Eric, KA6UAI, tells us this patch will be available for use on a trial basis commencing August 1, 1990. This repeater requires 1B CTCSS tone to access it. To use the patch: *07 gives a dial tone. Numbers within the Encinitas toll-free dialing area may then be dialed. Calls are limited to three minutes. Imminent disconnect is signaled by a series of warning beeps. Call disconnect is also activated by 45 seconds of inactivity. Again warning beeps prior to disconnect. To hang up: #. If, after dialing your number, you again hear a dial tone, it is because a number outside of the dialing area has been dialed - Sorry, Charlie.

When 911 is dialed, the responding 911 operator must be informed that the call is via amateur radio from a car or wherever to let the operator know the emergency is *not* at the location of the phone number automatically appearing on their display screen.

After a trial period of about a month, the Club will decide on how to proceed.

1990 CALLBOOKS - - Duane Heise, AA6EE, has 1990 Callbooks at a reduced price for club members. North American, \$23.95; International, \$25.95; both, \$44.95; postpaid. Add sales tax. Make check to Duane Heise, 16832 Whirlwind, Ramona, 92065. Phone: 789-3674 evenings.

PARC ENLISTMENT/REENLISTMENT APPLICATION

Mail form with \$\$ to PARC, P.O. Box 1603, Vista, CA 92083-0530 or hand to Jo, KB6NMK, at club meetings. Dues (including SCOPE) are \$12 a year plus \$9 for each additional 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. Consider paying for two or three years at a time. Call, name, and complete address are required. Telephone number may be 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 dotted line.

Call _____ Name _____

Expires _____ Address _____

Class _____ City _____ State _____ Zip _____

Old Call _____ Phone # _____ home _____ work _____ Other _____

Date 1st licensed _____ Birth date _____ Thomas Brothers location, page # _____ coord _____

Names & calls of family members in PARC _____

ARRL _____ RACES _____ ARES _____ Red Flag _____ Blood donor _____ Type _____ Comments: _____

DOTTED LINE

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Post Office Box, 1603, Vista, CA 92083.
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W6NWX

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W6NWX/R 146.73(-), 449.425(-), 145.05(Pkt); K6UAI/R 147.13(+)(Patch); W6HFR/R 224.90(-); W6IPD/R 146.175(+)(Patch)

VOL XXV, NO. 9

SEPTEMBER 1990

President:	Stan Rohrer	W9FQN	Valley Center	749-0276
Editor:	(temp)	W9FQN	Valley Center	749-0276
Vice Pres:	Jack Hanthorn	KI6JM	Vista	598-0420
Secretary:	Nash Williams	W6HCD	Bonsall	728-3574
Treasurer:	Ron Wilhelm	WI6B	Rancho Santa Fe	756-3133

SEPTEMBER 5th meeting (1st Wed) at Lincoln Middle School Cafeteria in Vista. I-5 or I-15 to Rd.78, Escondido Ave(Sunset)off ramp, north on Escondido Ave, between Eucalyptus and East Vista Way. Talk in 146.730.

H A M C A L E N D A R

- Sep 5 - PARC Club Meeting
- Sep 8 - PARC VE Testing
- Sep 13 - PARC Exec Mtg W6BIQS
- Sep 15 - EARS Hid.Xmtr Hunt
- Oct 3 - PARC Club Meeting

(club auction)

(Send calendar items to W9FQN)

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

Our next club meeting will be SEPTEMBER 5th at the Lincoln Middle School on Escondido Blvd. in Vista. The program will be by Fred Finke, K6IXY, who will give us a program on the use of amateur radio in the Mexican off Road Races in Baja California such as the Baja 1000 that one of our members, Bob Rice, K6SS, has worked many times. Learn how you can operate legally in Mexico with your amateur radio sets. It should be a good meeting, so see you there and bring a friend for the talk and pretty pictures.

SHOW AND TELL: NiCad charger and

107.2Hz reeds like the big boys use in repeater systems (or why you can't key of the repeater no more). 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 Sale Table where you can bring one or two small items for sale with 10% going to the club.

We will also introduce the oldest club member who attends the meeting and the youngest.

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

August club meeting at Lincoln Middle School was an excellent program put on by Merit Arnold, W6NLO, and Steve Lagaisse (license on the way) who talked about Diamond Antennas and their AR-3000 10M transceiver. Merit is the owner of WestCom started in 1975. RF Parts was started in 1980 and has ads in many national radio magazines. Attending the meeting were 53 members and 23 guests who were

treated to the latest in Diamond dual band antennas, duplexers, and SWR meters. Merit gave the club one of his 2M-450 dual band antennas and a duplexer to be used in club projects. It is really a neat looking antenna - and so are the car antennas which he and Steve showed to us. Art Nye-K6BYHZ has been doing the coffee and tasties for the ravenous hoard and needs more cookies, cake, and/or brownies on meeting night.

W A N T T O B E A H A M ?

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;W6BR:753-4821
- CARLSBAD:EleanoreCall;N6QJE:729-0850
- CHULA VISTA:BetyMahoney;K6DGR:420-2277
- DEL MAR:GerrySanford;KC6BJM:755-5244
- ESCONDIDO:Jo Ashley;K6NWK:741-2560
- ENCINITAS:DaveCopley;W6HQM:753-2605
- FALLBROOK:ArtRideout;W6IPD:728-6834

LAKE SIDE: Mac McBride: W6GXR: 561-2211
 LA MESA: Roger Jaffe: N6UW: 697-6025
 LEUCADIA: Bud Lincoln: K6SVX: 436-9983
 OCEAN SIDE: Lloyd Hunt: W6TFB: 439-8227
 INT L.: Mick McDaniel: W6FGE: 222-3912
 POWAY: Mark Schlessinger: N6NNI: 748-8391
 RAMONA: Vernon Leming: AA6UU: 789-3070
 RANCHO S.F.E.: Ron Wilhelm: W16B: 756-3133
 SAN DIEGO: John Tentor: W6DLQ: 672-3891
 S.D.: Dennis Vernacchia: N6KI: 271-6079
 SAN MARCOS: Rusty Massie: AA6QM: 747-5872
 SAN MARCOS: Floyd Harvey: W6JSP: 741-8391
 SOLANA B.: Lou Broadbent: N6CKQ: 755-9179
 VALLEYCTR: Stan Rohrer: W9FQN: 749-0276
 VISTA: Jack Hanthorn: KI6JM: 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, WestCom, Radio Shack ham "starter" packages, etc., and other local amateurs. You would serve as "their" first ham contact.

The club has some tapes available if they find some of the "starter" packages a little too expensive.

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

Other classes in the county will be announced as the information is available.

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 the second Thursday after the club meeting at the home of various of its members.

The August meeting which was at John-W6BIQS's QTH and we all enjoyed the drink and tasties. Our September meeting will again be at W6BIQS's QTH.

DISCUSSED: W6IPO reed (107.2Hz) and letters; new SCOPE editor; VE testing; old and new repeater building; club programs for rest of year; tree trimming; KOJPK and TASMA; autopatches (K6GAI/R & W6IPO); picnic; SWDiv Convention; and the 450 repeater problems.

APPROVED: Tower trailer (Taco wagon) use for Vista street fair in Sept; licensing of Taco wagon and lights; and two TASMA memberships, W6NWG, & W16B.

Contact any executive member for additional information on executive committee meetings. In attendance: (officers) W9FQN, KI6JM, & W6HCO; (committee heads) K6HAV, W6BIQS, & K6BNMK.

 ## de El PRESIDENTE ##
 #####

We are going to miss you, Ralph. How can we count the ways?

- 1) Editor of news letter for 17 years.
- 2) Repeater technical 2 years.
- 3) Source of club history at executive meetings.
- 4) Immediately cutting to the core of each subject in language any Marine can understand.
- 6) Collector of high class junk for Hillside Electronics.
- 5) VE team leader for 2+ years and examiner for 4+ years.
- 7) Past Field Day Chairman.
- 8) Speed typist with perfect spelling.
- 9) Official club Japanese translator.
- 10) A MOVER rather than a SITTER.
- 11) Holder of EXTRA class license.
- 12) PUSHER, PULLER, SHOVER, etc.
- 13) Traffic Net manager for PARC.
- 14) Postman with lots of ZIP.
- 15) Club's Survivors Committee.
- 16) Club talent scout.
- 17) Club conscience.
- 18) Pusher of amateur radio.
- 19) President PARC '68 & '69.

- 20) Computer wordprocessing whiz.
 - 21)
 - 22)
- (And on and on and on. We lost count.)

K 6 H A V, we WILL MISS YOU but we hope that you have a pleasant and rewarding stay in Salt Lake City ... and that you hurry back to us sometime next year. I think that I will miss you most of all (W9FQN).

 HAL EASTERLY Jr, K6GQS

We are saddened to report the passing of K6GQS. He was a long time PARC member and active in the Sunday ARES net. He will be missed by all of us who knew him.
 #####

F O R S A I L

If you have an item for sale, bring it for 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 club's PO Box or the current editor.

(8-16) Standard 2M 12 channel xtal rig, good for packet, \$50: Dennis-N6KI-271-6079.

(8-15) 2ea Kenwood TW-4000A 25W 2M/450 MHz dual-band FM XCVR w/PL tone encoder, \$300; Ass'td coax switches. Call Dennis-N6KI-271-6079. Formerly Ralph-K6HAV.

(8-12) MFJ Ant Tuner Mod949C Dulux2, \$70: Mick-W6FGE-222-3912.

(8-10) Uniden 2510 all mode 10M xcvr, Telex Dbl Zepp 5/8wave 2M base ant: Tim-NM7V-480-2649.

(8-1) From Mick McDaniel's garage: RTTY-CW Vic20 comp w/pwr, hamsoft module, Kantronics MFJ Mod1228 RTTY interface, display monitor NAP Mod BE3801, commodore data set w/extra RTTY software cassettes \$135); Kenwood TR2400 2M 1.5W HT, keypad, subaudible gen, duck, earfone, bat/chg, spkr mike, and extendable whip (\$125); ICOM IC37A 220MHz 25W xcvr, base or mobile, w/pwr, Cushcraft ant A-220-11 11el beam, coax, rotator system, roof tower and mast (\$295); AZDEN Mod2800 10M xcvr (\$100); VIBROPLEX BUG, chrome (\$20); Heath KEYER Mod SA5010 w/pwr, super memory mod, erratic operation (\$35); SCANNER ANT Butternut ModSC3000 (\$20); Masterworks analog 24hr clock (\$5); Junk box Heath CW rig Mod HX-11 w/pwr (\$5); CDR22 rotator system w/cable (\$10); TENNATEST ant. noise bridge (makes noises as you drive over bridges) (\$25); TenTec keyer Mod KR5/KR6 (\$20); Reg Pwr supply kit 15V/30A xfmr + reg. parts (\$20); ROLLER COILS 100w from command sets (3 for \$5); Fil xfmr big mamu 5V-115amps (\$5); Fil xfmr 15V-30A and 7.5V-30A (\$5); Fil xfmr 7.5V and 2 10V sec at 13A (\$5); ANTENNA TUNER parts kit coil caps fittings but needs enclosure and turns counter (\$25); Heath COAX SWITCH 4 position (\$10); Ohmite DUMMY LOAD air cooled 52 ohms at 250w (\$15); O'SCOPE EICO #460 (\$25); 2ea O'SCOPE HEATH OM-1 (\$25both); Old time INSTRUCTOGRAPH code machine (\$20); Heath TUBE TESTER TC-2 (\$10); Heath GRID DIP GD-1B (\$20); 2M FM LINEAR 2W in 20W out (\$10); and at last, ANTENNA TUNER MFJ Mod949C Delux tuner II (\$70). Call Mick-W6FGE-222-3912.

(8-1) FREE mini-quad: Fred-N6POZ-726-2616.

(8-1), Wilson SY33 3el beam w/40M mod kit: Dave-K7WMA-489-8465.

(7), IC-2AT, BC-35 chgr, BP-3, BP-4, DC-1, BC25u, Box & Manual- \$240; Jerry-W6BFMT-758-4388.

(7), BC-35 rapid charger (\$64), BP-85 super 1200mah pak (\$48), BP-3 250mah pak (\$31). HT stolen before used: Michael-283-2447.

(6) Hal CW-6850 CW/BAUDOT/ASCII Telereader KSR Terminal. Separate keyboard, includes built-in CRT Screen. RTTY, MORSE Demodulators, operates de 12VDC. List \$995. Used one hour-\$300 firm: Dick-W6OML-714-672-3871 evenings.

(6) Swan 270 Signet HF xcvr w/AC/DC pwr supplies built in, mike and Swan field strength meter: Ray-W6BHF-487-4423.

(6) Commodore C-64 computer, 1525 printer, 1541 disk drive, and 1530 Datasette. All for \$150: Jack-N60PO-434-2217

(6) Cubic 20A, 12VDC pwr supply w/built in spkr & phone jack, \$60 obo. Heath SW-717 shortwave rx, mint, \$25: Dan-W6SHYB-433-4445.

(6) 10-20M 2-elm. quad, \$130; Heath SB-614 Monitorscope, \$65; AEA CP-1 w/text for C-64, \$65; Realistic Pro-34 handheld scanner, \$120: Alan-W6ZF-693-1538.

(6) 2M Ringo Ranger Antenna, \$10: Jerry-W6BFMT-758-4388.

(6) As new Kaypro II w/manuals & software, \$200; Heath Scope O-11, \$50; McMurdo Silver FM/TV sweep gen, \$25; BC-348 WWII rx, \$50; RCA Radio-marine CRM-R1A rx, \$50; HV pwr supply 2,350V @ 200 ma. or 1,000V @ 300 ma, on chassis, unwired, \$50; 750VA AC line volt. reg., \$50; George-K6YK-755-1014.

(6) Asst'd tubes all test good, \$1 ea: Dennis-N6KI-271-6079.

Palomar ARC transformers from 5V to 3,000V; guy rope for antennas and masts from 200-1700 pounds breaking strength; HAM POSTAGE STAMP REPLICAS PINS, \$5/ea: Stan-W9FQN-749-0276.

WANTED

(8-17) Owner of 9/16-1/2" wrench left at Field Day.

(8-16) A HF vertical antenna, Barry-N6ENI-Vista, Sun ARES net.

(8-10) A few good men & women to help man the RACES station in San Marcos: Paul-N6ISC-727-8777.

(8-1), Duel Variable capacitor 200pf/sec, 2mm spacing to complete STC Transmatch, 811A's, and Gem Quad spider arms: Larry-W6LCT-724-9996.

(7) Editor for S-C-O-P-E, and net controls (SCNV, ARES, SDCNT, HAM HELP, CODE, etc.): W9FQN.

(6) Color monitor for C-64 in good condx and reasonable price. Call Henry-W6OYCO-772-5394, 11pm to 7am and leave mssg.

(1) ICOM IC-22A: Dennis-N6KI-271-6079.

REPEATERS ###
#####

W 6 N W G - 146.730(-) ==>
PL on the output of 107.2 Hz (changed 8-29) to prevent you from receiving JPK in LA, if you have a decoder. You will probably note that the hum on the repeater is less than before but it is probably because the new PL frequency is lower than what we were using. We were certainly surprised to find that more of you were using this feature than the 2-3 stations that we knew about. Reeds are being installed to also require this PL frequency for repeater access under interference conditions. TASMA has requested S.D.Co. to be on 107.2 Hz, hence the change. Battery backup for at least 36 hours.

Control Ops: W168, W66IQS, W9FQN, N6TJT, N6NZX, K6GNZA.

W 6 N W G - 145.050(s) ==>

Motorola packet digi-peater, battery backup for three days.

Control Ops: W16B, KB5MU, W86IQS, 7N, N6NZX, KB6NZA, N6UJA.

W 6 N W G - 449.425(-) ==>

Needs more usage. Sometimes on PL when radar interference is present. Battery backup for two days. Can use PL 107.2 or 127.32Hz when needed.

Control Ops: W16B, W86IQS, W9FQN, N6TJT, N6NZX, KB6NZA.

K A 6 U A I - 147.130(+) ==>

107.2 Hz PL during interference conditions. PL removed with tones (*80) and back on with (#80). Battery backup to the repeater to be installed soon (we hope).

Control Ops: KASUAI, N6TJT, W16B.

ALL OF THE ABOVE repeaters are in the PARC bunker on Palomar Mt. at 5,600', covering 2,000 sq.mi. of S.D.Co. and 100 miles out to sea. It is club policy that these repeaters are open repeaters FOR MEMBERS AND OCCASIONAL VISITING 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. Be gentle to those on the repeater calling "CQ" or "QRZ the repeater" since they know not what they do. Possibly answer their call with "MONITORING" which is the accepted procedure on 2 meters.

W A 6 I P D - 146.175 ==>

Must use 162.2 Hz PL although this PL will be changed to 107.2 on September 15th to match the other PARC PL's of 107.2 Hz. Use low power when in the Oceanside area or along the coast to prevent bringing up LA repeaters which are not PL'd. A letter is being sent to LA suggesting that they install PL or an anti-PL. Battery backup and auto-patch.

Control Op: W6AIPD.

220 C L U B of S.D. ==>

Located in the PARC bunker. PARC members are welcome to use the repeater but should consider supporting the 220 Club of San Diego if more than an occasional user. Almost 30% of the 220 club members are members of PARC. Repeaters do not come "free" and require time and money. Battery backup.

Control Ops: W6GHR, W6AQQQ, ???
P A T C H E S ==>

REMEMBER: 911 emergency calls need to indicate the call is via ham radio autopatch and not at Erik's Encinitas address or Art's Fallbrook address which will appear on the operator's computer screen. They don't want to greet the police at their front doors with guns loaded!

KAGUAI/R AUTO-PATCH (*07) & end (#07) as of Sept.1st while using PL 18 (107.2 Hz). Areas served: Oceanside, Carlsbad, Leucadia, ENCINITAS, Cardiff, San Marcos, Rancho Santa Fe, Solana Beach, and Del Mar: 259-431-433-434-436-438-439-471-481-591-632-720-721-722-729-744-753-754-755-756 -757-759-792-793-853-931-942-943-944-966-967-911. Non emergency: Cal. Highway Patrol (Oceanside) 757-1675, Sheriffs department 753-5591, and AAA road service is 753-8917. You must use PL 107.2 Hz!

W6AIPD/R AUTO-PATCH (4321) & end (#). Areas served: FALLBROOK-723-728, Vista-598-630-724-726-727-758-940-941-945, O'side-430-433-434-439-720-721-722-725-729-757-966-967, Pendleton-725, Valley Center-749, and Pauma-742.

W6NWG/R(.73) AUTO-PATCH "in the works". Areas to be served: Escondido, San Marcos, Vista, Valley Center, Ramona, and Poway.

Please contact a club officer if you can help us with other areas of the county or have any suggestions of additional coverage.

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

GNU/RENUDE Club members: Michael Hamann-W6C5H, Edward Holm-K6II, Fred Olsen-W6PNT, Betsy Ross-K6MBL

(wonder if she can make PARC flags), Joseph Bastow Jr-K6CV, William Haskell-KH6TL, Vernon Leming-AAGUU, Art Smith-W6INI, Ron Earl-W6TXK, Mark Moskowitz-AA6TR, Roy Martin-NGWVZ, Bob Gates-W6TBA, Ron Wilhelmy-W16B, Loreen Wilhelmy-NGRAO, George Shippey-NSYMH, Ed Null-W6GWI, Bill Smith-K6MUCU, Mark DiVecchie-K3FWT, and Sal DePaola-NSYZL.

At the end of August in 1989 and in 1990, we were within several members of reaching 400 membership.

T H A N K S T O -->

Club members helping with the SWDiv Convention. Names and calls in the next SCOPE.

Art-KB6YHZ for taking over the coffee and eats on meeting nights. We have been running short on cookies, cake, etc. so be sure to bring something now and then.

Mark-NGOEI for finding 85' of hardline cable for us. New it runs over \$1.00 per foot. PARC traded several small items for it: SWR meter and antenna.

Dave-KB7GDP for the beautiful pictures of Field Day. Great pictures of the Novice-Tech station, antennas, and my red Jeep.

Bud-KG6VX and Benton-KK6LC for their efforts with the emergency antenna on the roof of the Carlsbad Safety Center. Still some more work to be done.

Ed-NGGZI wants to thank Joe-W6GMY, Phil-W6FL, Brian-KF6B1, Dennis-N6KI, Charlie-NGMXZ, and Marsh-W6SAX for providing 40M contacts back to SDCo. during his recent trip back to and from Texas.

John-W86IQS for going up to the TASMA meeting with me August 3rd relative to the problems with KOJPK broadcasting into the San Diego area. Nothing was accomplished and everything was put on hold till their next meeting. One hundred and thirty miles for nothing ... again.

Bill-KH6TL for the offer of some emergency equipment(s). We always need items during fires and Field

Day.

Ken-NSAKB for another 0.5" knob ... now I won't have to take the one off of WBSAX's boat anchor which we hope to get working.

Benton-KK6LC for building portable wood boxes for two emergency packet units to be used in club projects.

Bud-KG6VX and the Field Day Station Heads for turning in their FD log sheets in time for the club's report to ARRL. Can't wait to see how well we did.

VE PROGRAM

FCC LICENSE EXAMINATIONS in north county are conducted by the PARC VE Team, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month at 10:00 a.m. Walk-ins are not accepted - an appointment is required.

Other SANDARC-VEC exams are on the 1st Saturday in El Cajon, 3rd in Normal Heights, 4th in Chula Vista, and the last Saturday in Escondido at the New Life in Christ Church, 300 N. Broadway, by the Escondido Amateur Radio Society.

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. Post Office Box 2446, La Mesa, CA 92044 10 days before the test date. Bring ORIGINALS of licenses & certificates. Questions: call Rusty Masse, AA6OM, PARC VE Team Leader or call SANDARC 465-EXAM.

Rusty-AA6OM has recently been appointed to fill the combat boots of Ralph-K6HAV and we hope that everyone will support Rusty in his new position.

NETS ON 146.730(-)

The SAN DIEGO COUNTY TRAFFIC NET(SDCTN) meets each evening at

2100 hours to pass messages within and out of the county. Please check into the net or listen for traffic in your area. We need more net controls and liaisons who can use the 146.850 repeater to take traffic in and out of SDCo at 2200 hours. Net managers are Joe-N6RVO, Chuck-N6TJT, and Rich-KI6ZH. Net controls are (M->S): AGHQM, N6RVO, WA1ZEN, W6EYP, N6TJT, N6NZX, N6STEP. SCNV liaisons are: N6RVO, and KI6ZM. We need more SCNV liaisons who can hit the Crestline repeater on 146.850(-) in the evening at 9pm. Please contact KI6ZH, N6TJT, or N6RVO if you can help. Duty cycle once per week but you have a backup.

The SUNDAY NORTH COUNTY ARES NET meets each Sunday morning at 8:30am to disseminate emergency preparedness information to amateurs in North County and other interested amateurs throughout the county. Net manager is Stan-W9FQN. Other net controls are: K6BNMK, N6NZX, K6BNZA, W6JSP, W6HCD, N6WTE, N6QJE, N6UIA, W6GHFE, & W6GUTQ. Duty cycle 2mo every two years.

The MONDAY EVENING MICROWAVE NET meets each week at 2200 hours to disseminate information on microwaves. Kerry-N6IZS is moderator and net control. Other net controls are: W6DYJ, & K6DS. Suggest you join the microwave group if you have a real interest in microwave.

The TUESDAY VOICE PACKET NET meets each week at 2200 hours to disseminate the latest information on packet. Paul-K6SMU is moderator and net control. Other net controls are: W6GHHV, & N6NKF. Suggest you join SANDPAC if you are interested in packet.

The WEDNESDAY COMPUTER NET does not seem to be functioning at present so if anyone has any suggestions for this time slot, please contact a club officer. Suggestions have been: boating, Spanish, what to do in S.D.Co, Ham

Radio in S.D.Co., etc. Perhaps we could have three groups meet once a month, 2nd, 3rd, and last Wednesday if we can't find a group for each Wednesday evening.

The THURSDAY HAM HELP NET meets each week at 2200 hours to help amateurs with their amateur radio related problems: transmitters, receivers, antennas, feedlines, etc. Stan-W9FQN is presently net manager. Other net controls are: KK6IL(1st), AA6KY(2nd), & K6GKE(last). We need more net controls. Duty cycle once per month.

The FRIDAY CODE PRACTICE NET meets each week at 2200 hours to help amateurs check their code speed before the Saturday morning VE code tests. We need net controls who can send code by computer. Stan-W9FQN is presently net manager. Other net controls are: N6NZX, & K6BNZA. We need more net controls who have computers that can be used to send code practice material.

OTHER NETS

The 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. Contact Frank-W6GHFE for info.

VISTA RACES needs 3-4 Vista hams to man the Melrose fire house on Monday nights or check in from their home station. Call Bob-KE6GX at 727-0606 for info.

Michael Hamann, W6CSH, needs hams to help with the ARES SoCal-wide Kaiser Hospital Disaster Net on 2M. Call 528-5380 for info.

DISCLAIMERS

Meetings at the Lincoln Middle school are NOT a function of the Vista Unified School District and are NOT sanctioned by the school district 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.

GENERAL NEWS ##
#####

Ralph and Pat's new address for this year and next will be:
Ralph and Pat Crossman
697 North DeSoto Street
Salt Lake City, UT 84103
Ph 801-328-2318

CLUB PICNIC: A grand time was had by the 55+ people attending the picnic. The following members won over \$500 in prizes: Dennis-N6KI (\$250), Nash-W6HCD (\$150), Stan-W9FQN (\$100), Ralph-K6HAV, and Karl-N6WLX (Callbooks).

Interested amateurs received instruction in direction finding using only HT's and in other direction finding techniques. In the hidden transmitter hunt, the winners were KH6TL, KB5MU, W08KUR, and N6URW. The transmitter was found in a punch pitcher.

THANKS to Art-KB6YHZ for making the coffee and Barbara-KA6FPS for the punch. Jo-KB6NMK and Susan-N6QDB took care of the drawing tickets. Ron-WI6B picked up the prizes and for the second year in a row Anna-??6???, daughter of AA6TR, drew the prizes out of the hat.

P O T P O U R R I

OFFICIAL CLUB BADGES: see John Tentor, W6QLQ, mtgs or 672-3891.

Received a nice note from Earl Leak-K6CLU, 38 Riviera, Grants Pass, 97527.

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.

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!

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

SWAPMEETS ==>

EL CAJON: Held the first Saturday of each month at the Santee Drive-In Theater on Woodside Ave. at Hwy. 67 in Santee, CA, starting at 7 a.m., talk-in 146.52 or 146.19(+), buyers 35c, and sellers \$4.

GENERAL DYNAMICS HRC-> Held the second Saturday of each month at the GD Valley Systems Division on Fourth Street east of Haven Ave. north of I-10 in Rancho Cucamonga, CA, 7-11:30 a.m., talk-in 146.91(-), buyers free, and sellers \$2.

GIZMOTEK ELECTRONICS-> Held the third Saturday of each month at the Winnetka Drive-In Theater Swapmeet, 20210 Prairie St., Chatsworth, CA, 6 a.m.-3 p.m., buyers free, and sellers \$5 (advanced reservation \$4).

TRW/ARC-> Held the last Saturday of each month on the northwest corner of Marine Ave. (Compton Blvd.) and Aviation Blvd. in Manhattan Beach, CA, 7-11:30 a.m., buyers free, and sellers \$3 (must be a ham and belong to some radio club, no new equipment).

A potential ham called me about becoming a ham radio operator by finding my name in a local library (W9FQN).

Use your cellular radiotelephone in Mexico ... and have it confiscated! It is against Mexican law for you to use your US cellular unit in Mexico and they will take it from you if they get the opportunity.

ELECTRONIC BUSINESSES: Alexander Battery, Escondido, HT batteries; Escondido Sales, 1428 Mission Rd, Escondido, for aluminum, brass, copper, etc; Industrial Liquidators, 683 S.Rcho Santa Fe Rd, San Marcos and 4887 Convoy, S.D.; and Gateway Elect., 9222 Chesapeak, S.D.

73, de W6NWG and W9FQN



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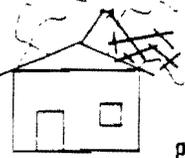
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PARC ENLISTMENT APPLICATION

Mail form with \$\$ to PARC, P. O. Box 1603, Vista, CA 92083-0530 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. Consider paying for two or three years at a time. Call, name, and complete address are required. Telephone number may be 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 dotted lion.

Call _____ Name _____ Birth date _____

Expires _____ Address _____

Class _____ City _____ State _____ Zip _____

Old Call _____ Phone# _____ home _____ work _____

Date 1st licensed _____ Thomas Brothers location, page # _____ coord _____

Names & call of family members in PARC
ARRL _____ RACES _____ ARES _____ Red Flag _____ Blood donor _____ Type _____ Comments: _____

.....dotted lion.....

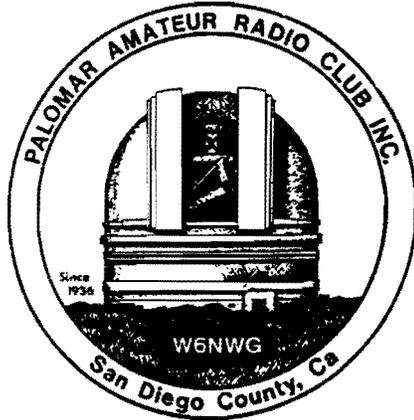
SCOPE, USPS 076530, published monthly by the PALOMAR AMATEUR RADIO CLUB, INC Post Office Box, 1603, Vista, CA 92083. Subscription: \$3.00 per year. 2nd Class Postage paid at Vista, CA 92083.

2nd Class Postage paid at V I S T A CA 92083

POSTMASTER: Send changes to: SCOPE, P. O. Box 1603, Vista, CA. 92083-0530

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); W6SHFR/R 224.90(-); WA6IPD/R 146.175(+)(Patch)

V O L X X V , N O . 1 0

O C T O B E R 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 Wilhelmy	W I 6 B	Rancho Santa Fe	756-3133
Editor:	Stan Rohrer(temp)	W 9 F Q N	Valley Center	749-0276

O C T O B E R 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

- Oct 3 - PARC Club Meeting (club auction)
- Oct 11 Wed - PARC ExecMtg WB6IQS
- Oct 13 Sat - SCRUBA Mtg SMRecCtr
- Oct 14 Sun - TourD'NC Bike-AA6VO
- Oct 15 Mon - Deadline SCOPE ads
- Oct 20 Sat - EARS T-hunt 146.880
- Oct 20-21 - ARRL Simulated Emg
- Oct 27-28 - CQ WorldWide PH Con (possible club event)
- Nov 7 Wed - PARC Club Meeting
- Nov 24-25 - CQ WorldWide CW Con (possible club event)
- Dec 2-3 - GoWestGen Code Class Airporter Inn Or.Co. (Send calendar items to W9FQN)

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

In September we were treated to an excellent program by Fred Finke-KA6IXY who showed us a video on the Baja 1000 and talked to us on how amateur radio is used in the Mexican Road races. Bob Rice-K56S, a club member, will serve as the club's contact and you can talk to him if you need more information or application blanks.

John-WB6IQS talked about PL's and Stan-W9FQN showed a Price Club nicad battery charger for those wanting their cells charged. Jack-KI6JM set up the coffee.

Karl-N6WLX baked a cake with his own little hands and it was enjoyed by many of us. We need helpers with the coffee for the rest of the year since Art Nye-KB6YHZ is now back in school (oh, to be young again). Attending the meeting were 56 members and 13 guests.

ested, contact one of the ELMERS listed below who is nearest to you for more infomation on Ham Radio:

- BONSALL:Nash Williams:W6HCD:728-3574
 - CARDIFF: Duane Stedman:W6BR:753-4821
 - CARLSBAD: EleanoreCall:N6QJE:729-0850
 - CHULA VISTA: BetyMahoneyKB6DGR:420-2277
 - DEL MAR: GerrySanford:KC6BJM:755-5244
 - ESCONDIDO: Jo Ashley:KB6NMK:741-2560
 - ENCINITAS: DaveCopley:WA6HQM:753-2605
 - FALLBROOK: ArtRideout:WA6IPD:728-6834
 - LAKE SIDE: Mac McBride:W6GXR:561-2211
 - LA MESA: Roger Jaffe: N6UUW:697-6025
 - LEUCADIA: Bud Lincoln:KG6VX:436-9983
 - OCEANSIDE: Lloyd Hunt:W6TFB:439-8227
 - PALMA&PALA: Mark Ross:KC6CZO:742-1539
 - POINT Lo: MickMcDaniel:W6FGE:222-3912
 - PQWAY: MarkSchlessinger:N6NNI:748-8391
 - RAMONA: Vernon Leming:AA6UU:789-3070
 - Rancho S. Fe: RonWilhelmy:WI6B:756-3133
 - SAN DIEGO: John Tentor:W6OLQ:672-3891
 - S. D.: Dennis Vernacchia:N6KI:271-6079
 - SanMARCOS: FloydHarvey:W6JSP:741-8391
 - SolanaBe: LouBroadbent:N6CKQ:755-9179
 - VALLEYctr: Stan Rohrer:W9FQN:749-0276
 - VISTA: Jack Hanthorn:KI6JM:598-0420
- PARC members: if your area is not represented above and you would like to serve as an ELMER in your area to

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

Our next club meeting will be OCTOBER 3rd at the Lincoln Middle School on Escondido Blvd. in Vista. The program will be under the direction of Dennis-N6KI who will conduct our annual club auction (see AUCTION).

BK

BK
 #####
 ## W A N T t o B E a H A M ? ##
 ## (or Dial-a-Ham) ##
 If you are interested in amateur radio or have a friend who is inter-

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 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."

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

GORDON WEST (Sat/Sun Dec 2 & 3) has a General code and theory class. Multiple tests are given: (714) 549-5000.

Mike-W6CSH sent us info on several radio classes to the north of us in Fullerton & Pasadena (PARC?) although both will have started by the time this SCOPE is mailed.

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.

Other classes within the county will be announced as the information becomes available.

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 the second Thursday after the club meeting at the home of various of its members.

The October meeting was at John-WB6IQS's QTH and we all enjoyed the drink and tasties. Our November meeting will be at Ron-WI6B's QTH in Rancho Santa Fe - just out of the fire zone!

DISCUSSED: membership, \$\$\$, coffee, xmas program, repeater site, Pkt on 146.145, autopatches, Del Dios fire, Mexican Hams, taco trailer update, circulators (\$350), report on possible new repeater, building heat, interference coming from Vista

near the center of town, MCAW electronics info, new 450 antenna on the tower in testing mode, etc.

APPROVED: Tree trim (\$150), accepted WA6QQQ shed, and Radio Shack contacts.

Contact any executive member for additional information on executive committee meetings. In attendance: (officers) Stan-W9FQN, Jack-KI6JM, Nacho-W6HCD & Ron-WI6B; (committee heads) John-WB6IQS, & Jo-KB6NMK. PARC members are welcome to attend these meetings - but don't eat all of the goodies.

BK

+++++ SK ++++++
+ STEVE McKINNEY, N 6 N H W +
+ We are saddened to report the +
+passing of NGNHW. He will be +
+missed by all of us who knew him. +
+++++ SK ++++++
+ HERB PATCHEL, K D 6 W X +
+ Herb was a former member of the +
+Palomar ARC. He is survived by +
+his son, Herb Jr-WA6IWK-272-5233 +
+who also is a former PARC member. +
+++++ SK ++++++
+ "PADRE" BIBLE, W A 6 B D W +
+ Padre was a well known ham in +
+the San Diego area for many years.+
+He passed away September 9th in +
+a VA hospital in San Diego. +
+++++ SK ++++++

BK

NEWSLETTER HELPERS
Labels Bill Whipple N6COU
Ads, Art Jo Ashley KB6NMK
Ads \$\$\$ John Tentor W6OLQ
Folding Lloyd Hunt W6TFB
Pickup + \$\$ Ron Wilhelmy WI6B
Mail Jack Hanthorn KI6JM

Without these people life would be difficult - W9FQN.

BK

THANKS TO -->

Karl-N6WLX for coming out to Rancho Bernardo at 10pm on a Sunday night to help Terri-N6UZH when her car died on the freeway, and to Dick-N6SUN (a real bright young man) who stood by on the radio and called

them a tow truck when it was determined what needed to be done. (Thanks a lot guys: de Terri-N6UZH and Jo-KB6NMK)

Bob-W6BVU who took the time to write a nice note on his enlistment form. We like to hear from members from time to time especially if they cannot make our meetings.

Ed-N6GZI who set up a code oscillator so that Padre Bible was able to "talk" to the doctors using Morse Code with a ham translator. Ed provided Marty-K6NS with an oscillator before he died. Morse code allows a patient to communicate with the outside world when the patient is unable to talk or write.

Dennis-N6KI for sending me a copy of the Piscataway ARC newsletter (PARC?) - very interesting reading and some good ideas on amateur radio at local fairs.

Sybil Allbright-W6GIC for chairing the South Western Division Convention this year and for the tremendous job she and her helpers did putting everything together so nicely. Eleanore-N6QJE and I (W9FQN) as booth chairmen received many compliments which really should have gone to Sybil. Thanks, Sybil, you did a great job for the San Diego County Amateur Radio Council (SANDARC) and from where we sat things seemed to run very smoothly.

Jo-KB6MK for the great job she did on getting K6HAV's plaque for the club to present to Ralph-K6HAV. Hurry back, Ralph!

Gerry-KC6BJM for working with the Animal Rescue group during the Del Dios fire.

Eleanore-N6QJE for setting up the SWDiv Convention booth worker schedules and for providing me with insight on exhibitors needs. Eleanore and Clint used to be exhibitors for SWAN some years back. But Eleanore, what is this I hear about someone reserving a room for you at the convention?

The SWDiv Convention PARC booth helpers: Eleanore-N6QJE (co-chairman with Stan-W9FQN), Barbara-KA6FPS, Ellen-N6UUU, Jo-KB6NMK, Benton-

KK6LX, Ron-WI6B, Ed-K6KG, Karl-N6WLX, Scotty-KH6TL, Jack-KI6JM, Art-KB6YHZ, Anita-KB6YHY, and Stan-W9FQN. A good time was had by all and we sold over \$240 worth of Ham Stamp pins with the money being put in the repeater-equipment fund. We still have about \$650 worth of pins that we still can sell.

Jo-k86NMMK for working with the CDF at North County Fair during the Del Dios fire.

Norm-N6QQF for taking the ARES net for the rest of August and September.

John-KK6IL for taking the HAM HELP net the first Thursday evening of the month.

Carl-N6NZX for taking the Friday 9pm code net from time to time when I am not available. We need several more net controls with computers that would be willing to send code for us once a month.

BK

R E P E A T E R S ###
#####

Ray Spikes-KB6DFH, is the new head of TASMA and is pushing the use of PL tones for use on ALL repeaters to reduce interference between repeater systems. Don't buy a 2m rig unless it has PL and possibly touch tone decode functions for selective calling.

W 6 N W G - 146.730(-) ==>

PL on the its output of 107.2 Hz to prevent you from receiving JPK in LA, if you have a decoder. Battery backup for one day.

Control Ops: WI6B, WB6IQS, W9FQN, N6TJT, N6NZX, KB6NZA.

W 6 N W G - 145.050(s) ==>

Motorola packet digi-peater, battery backup for three days.

Control Ops: WI6B, KB5MU, WB6IQS, W9FQN, N6NZX, KB6NZA.

W 6 N W G - 449.425(-) ==>

Needs more usage. Sometimes on PL when radar interference is present. Battery backup for two

days. Changed to PL 107.2 MHz.

Control Ops: WI6B, WB6IQS, W9FQN, N6TJT, N6NZX, KB6NZA.

K A 6 U A I - 147.130(+) ==>

107.2 Hz PL during interference conditions. PL removed with tones (*80) and back on with (#80). Autopotch but no battery backup (yet).

Control Ops: KA6UAI, N6TJT, WI6B.

ALL OF THE ABOVE repeaters are in the PARC bunker on Palomar Mt. at 5,600', covering 2,000 sq.mi. of S.D.Co. and 100+ 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. Be gentle to those on the repeater calling "CQ" or "QRZ the repeater" since they know not what they do. Possibly answer their call with "MONITORING" which is the accepted procedure on 2 meters.

W A 6 I P D - 146.175 ==>

Use 107.2 Hz PL and low power when in the Oceanside area or along the coast to prevent bringing up LA repeaters which are not PL'd. Battery backup and auto-patch.

Control Op: WA6IPD.

220 C L U B of S.D. ==>

Located in the PARC bunker. PARC members are welcome to use the repeater but should consider supporting the 220 Club of San Diego if more than an occasional user. Almost 30% of the 220 club members are members of PARC. Repeater do not come "free" and require time and money. Battery backup.

Control Ops: W06MFR, NE6T, WA6QQQ.

P A T C H E S ==>

REMEMBER: 911 emergency calls need to indicate the call is via Ham

Radio autopatch and not at Erik's Encinitas address or Art's Fallbrook address which will appear on the operator's computer screen. They don't want to greet the police at their front doors with guns loaded! BOTH patches require PL at ALL times for proper operation.

The question has been asked if there is any charge for using the autopatches. No, there is no charge to amateurs although we certainly do hope that you and YOUR friends support the club with club membership. The autopatches and telephone lines belong to KA6UAI and WA6IPD. Art-WA6IPD has furnished a prefix filter and Erik a link to Palomar Mountain. PARC furnished a prefix filter to Erik.

Without PL you cannot use the two auto-patches!

Autopatches and areas covered ==>>
(cut out or copy for car & home use)

KA6UAI:147.130(-)(107.2) (*07 & #07)

(O)side,Cardi(f),(L)eucadia,(D)elMar
(E)ncinitas,(C)arlsbad, San(M)arcos
(R)ancho Santa Fe & (S)olana Beach
259 431 433o 434c 436e 438 439o
471 481d 591 632c 720c 721o 722o
729c 744 753f 754 755s 756r 757o
759r 792 793 853 931 942 943
944e 966o 967o Emergency only 911.

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

WA6IPD:146.175(-)(107.2) (4321 & #)

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

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

WA6IPD: Art Rideout's Fallbrook repeater had been using a shared

phone line (his home line) but beginning this month the repeater has a dedicated phone line. Until the new line went in, Art was the only amateur who could not call home!

KASUAI: Erik's Encinitas autopatch has been using an extra house line during the test period.

Please contact a club officer if you can help us with other areas of the county or have any suggestions of additional coverage.

Autopatches are nice. We hope that you use the KASUAI and WA6IPD patches to good advantage and for the right reasons.

Use the following suggestions as a guide to proper operation:

O O U S E F O R =>
emergency contacts (911, etc) asking friends to get on the Rpt but KEEP CONTACTS SHORT bringing up patch for others

O D N ' T =>
give out codes over the air or to non-club members call a company or someone that answers with a company name conduct business of any kind qab, tell jokes, or be cute

Improper use of the autopatch can result in our putting a "lock" on the numbers being called - or calling prefix. Please let us know of any potential problems that you see (or hear) developing with any of the autopatches.

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 \$\$.

FORSAIL items is the 15th of the month addressed to the editor of the SCOPE.

How about bringing some of these items to the AUCTION. You can mark them with a minimum price if you like.

(9-19)Swan-400 xcvr 80-10M 400w \$249; Hy-gain Thunderbird 3el beam \$65; Ham-II rotator, 50' cable \$75; Heath IM-4100 FM deviation meter \$75; Sure 444-D microphone \$39; Heathkit solid state grid-dip meter \$35; Scotty-KH6TL-727-8836.

(9-14)Authentic Western Union RTTY, send-receive, best offer: Mark-KC6CZO-742-1539.

(9-14)Authentic Mod 15 RTTY, send-receive-boat anchor, looking for union with WU RTTY, best offer: Stan-W9FQN-749-0275. I thought there was a museum looking for several of these valuable additions to the ham shack??

(9-9)Yaesu 2M FT-221 all mode base xcvr with Yaesu phone patch, SP-901P \$300; Mark-KC6CZO-742-1539.

(9-8)ICOM-35 desk rapid charger \$64, BP-8 super 1200mah pak \$54 all unused; IC-2A stolen before used; ICOM BP-3 + wall charger \$46, unused Comm Spec SS-325MP micro sized encoder \$22 (this would be good for 107.2HZ PL on WA6IPD and KA6UIA: Mike-WBSCSH-leave msg 293-2447.

(8-12)MFJ Ant Tuner Mod949C DuLux2, \$70; Mick-W6FGE-222-3912.

(8-10)Uniden 2510 all mode 10M xcvr, Telex Dbl Zepp 5/8wave 2M base ant: Tim-MM7V-480-2649.

(8-1)From Mick McDaniel's garage: RTTY-CW Vic20 comp w/pwr, hamsoft module, Kantronics MFJ Mod1229 RTTY interface, display monitor NAP Mod BE3801, commodore data set w/extra RTTY software cassettes \$135; Kenwood TR2400 2M 1.5W HT, keypad,

subaudible gen, duck, earfone, bat/chq, spkr mike, and extendable whip \$125; ICOM IC37A 220Mhz 25W xcvr, base or mobile, w/pwr, Cushcraft ant A-220-11 11el beam, coax, rotator system, roof tower and mast \$295; AZDEN Mod2900 10M xcvr \$100; VIBROPLEX BUG, chrome \$20; SCANNER ANT Butternut ModSC3000 \$20; CDR22 rotator system w/cable \$10; TENNATEST ant. noise bridge (makes noises as you drive over bridges) \$25; TenTec keyer Mod KR5/KR6 \$20; Reg Pwr supply kit 15V/30A xfmr + reg. parts \$20; Fil xfmr 15V-30A and 7.5V-30A (\$5); ANTENNA TUNER parts kit coil caps fittings but needs enclosure and turns counter \$25; Heath COAX SWITCH 4 position \$10; Ohmite DUMMY LOAD air cooled 52 ohms at 250w \$15; Heath TUBE TESTER TC-2 \$10; Heath GRID DIP GD-15 \$20; 2M FM LINEAR 2W in 20W out \$10; ANTENNA TUNER MFJ Mod949C Delux tuner II \$70. Call Mick-W6FGE-222-3912.

(8-1)FREE mini-quad: Fred-N6PDZ-726-2616.

(8-1)Wilson SY33 3el beam w/40M mod kit: Dave-K7WMA-489-8465.

(6)Hal CW-6650 CW/BAUDOT/ASCII Telereader KSR Terminal. Separate keyboard, includes built-in CRT Screen. RTTY, MORSE Demodulators, operates de 12VDC. List \$395. Used one hour-\$300 firm: Dick-W6OFL-714-672-3971 evenings.

(6)Swan 270 Signet HF xcvr w/AC/DC pwr supplies built in, mike and Swan field strength meter: Ray-W6BHF-487-4423.

(6)Commodore C-64 computer, 1525 printer, 1541 disk drive, and 1530 Datasette. All \$150: Jack-N6OPD-434-2217

(6)10-20M 2-elm. quad, \$130; Heath SB-614 Monitorscope, \$65; AEA CP-1 w/text for C-64, \$65; Realistic Pro-34 handheld scanner, \$120; Alan-WZ6F-693-1538.

(6)2M Ringo Ranger Antenna \$10: Jerry-WB6FMT-758-4388.

(6)Asst'd tubes all test good, \$1 ea: Dennis-N6KI-271-6079.

Palomar ARC transformers from 5V to 3,000V; guy rope for antennas and masts from 200-1700 pounds breaking strength; HAM POSTAGE STAMP REPLICAS, \$5/ea: Stan-W9FQN-749-0276.

BK
W A N T E D

(9-12)Larry Gugle(KT waiting) is looking for HF-VHF-UHF repair business. He operates SARG TWO-WAY COMMUNICATION REPAIR (STCR) service in Oceanside. Larry is offering to only PARC members 50% off on repairs and for small part orders, cost + 25%. He is licensed in Oceanside (#500021), has 25 years of communications repair experience, and holds a General Radio Telephone license. Look for his ads in future SCOPEs. Call Larry at 439-4109, Oceanside.

(9-7)Paul-KZ6X is looking for someone to help a technician with house calls. Probably help to move the TV sets so the technician can work on them. Time would be 8:30 to 5:30 on Wednesdays and Fridays. If interested, call Paul at North Co. Service Center, 436-2900. Looks like a good part time job for someone - and see the coastal area. Paul was head of the 15/40m SSB station that did so well this last Field Day.

(9-9)Letters and contacts in the Persian Gulf: Eric-KB6EPG/MM1.

(9-11)Needed carbon microphone, hand held or desk: Nash-W6HCD-72B-3574. I bet that not 1 ham in a 100 can bring up a mental image of a T-17 and name the colors. Repeater users 1 in 300!

(9-5)IC-2A, IC-32AT, or IC24AT: Mike-WB6CSH-leave mssg 283-2447.

(8-10)A few good men & women to help man the RACES station in San Marcos: Paul-N6ISC-727-8777.

(8-1)Duel Variable capacitor 200pf/sec, 2mm spacing to complete STC Transmatch, 811A's, and Gem Quad spider arms: Larry-W6LCT-724-9996.

(7)Editor for S-C-D-P-E, and net controls (SCNV, ARES, SDCNT, HAM HELP, CODE, etc.): W9FQN-749-0276.

(6)Color monitor for C-64 in good condx and reasonable price. Call Henry-WB0YCQ-772-5394, 11pm to 7am and leave mssg.

(1)ICOM IC-22A: Dennis-N6KI-271-6079.

BK

D O N A T I O N S , thanks

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.

Bob-WA6QQQ for giving the club a government communications mini-van trailer top for club use.

Jim Stephens-KA6QLZ for the donation of a computer system (TELARRAM) to the club. Jim operates an antique Clock Repair service and you can call him at 434-2722 for repairs. He also works at the RADIO SHACK store (MT&W) in the Carlsbad mall.

Bill-KESBH for locating a copy of the manual for the two 6m rigs that he recently gave to the club.

PARC, as a service to club members, has a SURVIVORS committee which will look into the disposing of Ham Radio estates. Contact any club officer for more information.

BK

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

NEW: George Shippey-N6YMH-Fallbrook, Bill Smith-KB6MCU-SD, Ed Null-WB6UQI-Vista, Sal DePaola-N6YZL-SD, Mark DiVecchie-K3FWT-SD, Jay Jacobs-N6ZJV-San Marcos, Jung Ching Ho-N6YEI-LaJolla, Bruce Simpson-KK6CD-Escondido, David Lambert-K7WMA-San Marcos, Tim Farris-NY7V-Escondido, Frank-N6WEF and MaryLee-N6WEG-Lowden, Janet Hafner-KC6GFY, Franklin Antonie-N6NKF, John Grat-KK6MS, Gordon Johnston-KB0DBX, Larry Gugle-??6??/KT, Ted Fenstermacher-KU1Y, Greg Harris-WB9MII, Shannon Mossman-KB6OPQ, Robert Reichman-WA3IHV, Nicholas Uran-N6YRT, and Emmett Woodward Jr-KC6MJJ.

NEW ASSOCIATE: Philip Milazzo-Escondido, Michael Riber-Vista, and Louise Hitney-Escondido.

RENEW: Ed-K6II, Ron-WI6B, Verl-WB6EOT, Art-W5INI, Loreen-N6RAQ, Bob-WB6TBA, Mark-AA6TR, Earl-W6TXK, Vernon-AA6UU, Roy-N6WVZ, Steve-KB6GKE, JG-K6CV, John-WB6HSZ, Russ-N6GJW, Michael-WB6CSH, Jack-KI6JM, Fred-W5PNT, Scotty-KH6TL, Betsy-KB6MBL, Russ-WB6IOV, Eleanore-N6QJE, Bob-NC6J, Walter-KB6NUY, Robert-KE6VX, Nash-W6HCD, Mark-N6RMM, Walt-KJ6SK, Don-WB6FWE, Caroline-KB6MPZ, Bud-KG6VX, Vern-NOCPS, Mary-NOEUV, Walter-WASINL, Larry-WQSV, Vina-N6PQQ, Fred-N6tDZ, Mary-N6PEA, Marsh-W6SAX, Ganni-KB6PCF, Mark-KC6CZO, Bill-Assoc., James-WA3AAJ, Bill-N6COU, Don-N6GOS, Bill-KC6BIM, Ridger-KS6P, Mark-N6NNI, and Paul-KB5MU.

SCOPE: Earl-K3CLU-Oregon, and Merv-N6ND-Arcadia.

CHANGED: Scott Weber: KCSKER -> N6ZOR and Shannon Mossman: KB6OPQ -> KCSNRB.

For the club year, 1989-90, the activity points for PARC members over (5) are:

- 15) AA6TR(keep sailing along, Mark)
- 14) WB6FWE WB6IQS N6KI KB6NPK WB6R
- 13) KI6JM KG6VX
- 12) KK6CA W6HCD W6TFB KB6YHZ
- 11) KC6BJM KSHAV N6QVW N6URW N6UWJ N6YVV W9FQN

- 10) W16B W6GXR KK6LX W6DLQ N6QJE
N6RUV N6YWW
- 9) WA6HYC W6TDC N6UCJ
- 8) W3ARU W6BIH N6COU N6HEW KC6FZN
N6ISC N6NNI N6UIA N9AKB
- 7) KB6GKE K6ICG W6IRM N6OYG N6RVO
- 6) W06AHV W6EYP KA6FPS N6GZI W6JSP
N6PQQ N6QQF N6RKE N6TEP N6TRS
N6TUR WQ6V W6ZJD

The above 56 calls represent our "hard core" attendance members with others showing up when we have a meeting of interest giving us an average attendance of about 65 for each meeting. We suspect that over half of our membership is interested only in our repeaters rather than club activities. Most of our members are not located in North County. (I had only 11 points even though I missed only one meeting - forgot to sign in the rest of the time). Please sign in each meeting and PRINT your call so we can read it on the sign-in sheet.

BK

de A A 6 O M, Rusty Masse ###
V E Team Leader

FCC LICENSE EXAMINATIONS in North County are conducted by the PARC VE Team, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month at 10:00 a.m. Walk-ins are not accepted - an appointment is required.

Other SANDARC-VEC exams are on the 1st Sat. in El Cajon, 3rd in Normal Heights, 4th in Chula Vista, and the last Sat. in Escondido at the New Life in Christ Church, 300 N. Broadway, by EARS.

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. Post Office Box 2446, La Mesa, CA 92044 10 days before the test date. Bring ORIGINALS of licenses & certificates. Questions: call me or SANDARC 465-EXAM.

If you have a EXTRA or an

ADVANCED license and can help the 1st Saturday of the month, please give me a call at 747-5872.

#1-AUGUST: 13 applicants, 24 elements, and 18 passing - 75% pass rate. Club member Shannon Mossman-KC6OPQ from Novice to General.

#2-SEPTEMBER: 6 applicants, 9 elements, and 4 passing - 44% pass rate. Club member Larry Guggle from Novice (pending) to Technician.

Since August, 19 applicants, 33 elements, and 22 passing - pass rate 67%.

BK

de K 6 H A V

The following is from a letter written by Ralph-K6HAV on September 1, 1990.

- - - - -

"Many of us have bought gear from Ross Distributing Company (RDC) of Preston, ID. We've done it by phone and always been happy with the price and the results. If you haven't noticed, he advertises in the various ham pubs in the classified section - always one new gear and one used gear ad. Recently I have noticed his small ads in CQ plus the classified ones."

"Since in Salt Lake City, we're only about 110 miles south of Preston, we took a run up there last Thursday to see what RDC looked like as his prices have been among the most competitive. We went north on I-15 to Brigham City and then northeast through Logan up the Cache Valley to beautiful downtown Preston. Fortunately I'd taken the CQ with the ad in so we had a street address. It was right on the main drag (just about the only street Preston has), but without the street number from the ad and some ham antennas on the roof, we wouldn't have found it. No name on the store window or the door. The Kenwood decal on the door window gave it away. The door was locked but when we knocked, someone opened it for us and we went in to find a display space which makes WestCom's look spacious and HRO's like Price Club.

There were a few (a dozen or so) pieces of used gear (including PARC member WA6HYC, Bill Watt's Kenwood VFO) displayed. No help to wait on you unless you got one of the lady phone answerers off of the phone. No new gear to fondle (but Pat saw stacks of it in the upstairs windows). Ross obviously does 99% of his business by phone and that's why his prices are hard to beat. Why should he have a showroom? After all, who drives to Preston? It's off the beaten path of I-15 and there's no short cut to it although the road we took was great. Guess I'll confine my buying from Ross to the phone. Anyway, tell N6KI and N7AMR where their gear came from. Pat and I may be the only two hams in the PARC to have visited Ross Distributing Company, 78 Main St., Preston, Hideyho".

de Ralph-K6HAV and Pat-N6INN

BK

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 (jefe), promised us a few laughs and dancing girls.

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 Auction & 5min club

meeting.

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 items sold.

9)You don't have to be a PARC member to attend the Auction so invite you friends.

BK

Tour D' North County de AAGVO

Tour D' North County Bicycle Ride will be Sunday, October 1th, starting in Vista at 6:30 am. There will be approximately 3,000 participants in rides of 5, 25, 50, and 75 miles with proceeds of the event going to North County Hospitals and end in Vista.

We will need the following stations:

- 1)Portable Base at start/finish to act as net control.
- 2)Six(6) mobile/HTs for rest stops.
- 3)Eight(8) mobile/HTs to operate in safety vans along course.
- 4)Portable Base/Mobile to operate at fire station.
- 5)Four(4) HT stations backup.

Anyone interested in helping out should contact Steve Baum, AAGVO, at 619-723-2450 evenings, Fax's at work at 714-699-5098 or voice at 714-699-5091. Time required would be from 6 am to no later than 1 pm. All units must be able to operate for at least seven hours: extra battery packs, lead acid, car plugs, etc. You can also signup at the Club7s October AUCTION meeting.

BK

M E X I C O X E 2

One of the amatuer radio clubs in Tijuana is Club de Radio Experimentadores de la Baja California, A.C.

(CREBC). They were quite prominent at the South Western Division Convention this year. Their members participated in several of the technical sessions and I saw many of our club members (PARC) who went over to CREBC's hospitality suite where we were graciously served margaritas and something which the XE's passed off as "apple" juice (salud) which for some reason or another had a little "bite" to it. CREBC operates a club station, XE2BC in Tijuana.

The Palomar Amateur Radio Club and its members want to thank CREBC for their gracious hospitality during the Convention. The Colasas (USA) to the north of them dumps all sorts or RF garbage (hundreds of US repeaters) into their front door and they really don't have much that they can do about it. I certainly hope that some of their suggestions are listened to by the frequency coordinators (TASMA) here in the USA and that they get to use their clear channel frequency assigned years ago to them of 145.460 MHz.

We need to remember that American Hams are able to get XE licenses to operate in Mexico but that XE's cannot operate in the USA which is a real pity. Mexico ratified the ITC Lima Convention Treaty on the 28th of December 1988 and it was signed by the president of Mexico on July 7th, 1989. The United States has failed to ratify the treaty and no one seems to know what its status is in the U.S. Senate. As soon as it is signed by the USA, we will have reciprocal licensing between Mexico and the USA allowing amateurs to operate on both sides of the border. At that time we should be able to use XE2+(your call). For example: XE/W9FQN.

BK

G E N E R A L N E W S

FCC new phone in Gettysburg is 717-337-1511.

BK

The United States Post Office in Vista has changed our ZIP code from: 92083-0530 to:

9 2 0 8 5 - 0 5 3 0

All net controls should correct their preamble to reflect this change.

BK

SCRUBA has been contacted for new 900 MHz coordinated frequencies for several of our links.

BK

The Animal Rescue group used the W6NWG 146.730 repeater for half a day until they moved to the 147.130 KAGUAI repeater which they were supposed to be on in the first place. We are happy that they were able to use both repeaters effectively during the Del Dios fire which last for several days.

BK

Our Printer last issue (on his own) decided the SCOPE should be printed only on one side so you would have space to put your notes and so we could pay the post office a little more \$\$\$. Yes, Ralph-K6HAV, I did instruct them on how you like both sides to be printed. In fact, I probably made a mistake in telling her how I wanted the margins on even and odd pages.

BK

We are really pleased with the new lighting system in the Lincoln Middle School cafeteria. Everything is now visible. Some of us don't like to be seen!

BK

Bill Smith-K86MCU has just been appointed by SANDARC to head the SANDARC interference committee and he told us at the September meeting about one of his first problems in the Vista area where a local ham was being received at a neighbor's house on everything except for the kitchen sink. Bill told us how the problem was isolated and solved - using sophisticated equipment.

Also at the September meeting we had on display the handsome plaque which the club is sending to Ralph

Crossman-K6HAV for his many years of service to the club. We hope you like it Ralph!

BK

Bill-K6GJD (Good Jack Daniels) blew in from Arizona for about a week and terrorized the .73 machine looking for old friends.

BK

SAVON DRUG store carries a neat little battery tester on sale for 99c made by Digitemp. Nothing more than a strip of plastic with a plated resistor on one side and a temperature sensitive, color changing chemical on the other side. Resistor heats up and you can see the color change going from red to green. Good for 1.5v cells and 9 volt batteries. I use it out in the field for checking cells in timer clocks. You can carry the plastic strip in your billfold!

BK

The FCC has issued sample letters for individuals requesting a telegraphy 13 or 20wpm waiver request. Check page 104 of the September 1990 CQ magazine for details on the format of the letter for the amateur and for the doctor. The 1988 Developmental Disabilities Act is also quoted along with a complete discussion of potential problems. We hope that amateurs do not abuse this waiver request procedure.

BK

D E E R I C - K B 6 E P D / MM
Dear Jo and PARC members,

"Thanks for the nice card. Things are relatively boring out here if you can believe that! None of us wishes for a war, but we do wish something would happen. Either give Iraq Kuwait or else take it back by force and have it done with. So long as everyone keeps on jacking their jaws, our ship will have to stay here. Our cruise has already been extended so that instead of being home for Thanksgiving, we will come home just before Christmas. Personally, I believe we'll be here long past that and they've told us the December date in order to keep

spirits up a wee bit longer. We're finishing up day 42 of at-sea time since our last port call, and we're looking at upwards of 75 more days at sea before we call on a port somewhere (provided things are stabilized here). There is good news though, only three more days until "beer day" when everyone who wishes to partake can be issued two icy cold cans of Budweiser. Also I do have my HF and 2-meter all mode rigs here and since everyone in the whole world already knows where we are, the ship is allowing me and the other hams onboard to operate. DX to the states has been sporadic at best, usually occurring from 1700-2000Z on the 10 meter band when it does open.

I operate from 28.450-28.495 USB, 21.1-21.2 and 28.0-28.15 CW, 28.15-28.3 RTTY on HF. I have worked every single European country, all the USSR oblasts, all of the middle east (except IRAQ and IRAN), India, and all of south and southeast Asia, and most of Africa already. Just about every nite South America is in, and I practice my Spanish with the CX, LU, and CE guys.

I might as well log them all while I'm here because I'll never hear them in San Diego like this! Having lots of fun working the USSR on 15 meters using high speed CW, 35-75 wpm. Those guys are really into it big time and they are doing a remarkable job considering that without exception they are all using homemade rigs 30w or less and home made antennas.

I talked to an English teacher from the University of Taghkert in Uzbekistan today and he was S/9+30. He was using a homemade 30 watt rig and a homemade yagi. He made me laugh when he told me it's only a small antennna - 6 elements with a 9 meter long boom!

Tell the gang to give a listen for us when they've got nothing better to do. We're on the air daily from 0700-1000Z and also from 1500-2000Z, which is our lunch time and evening after-work hours

locally. Who will be the first to get the official Persian Gulf QSL card? (Ed: see sample elsewhere). Thanks again. 73, Eric."

=====

WELL, THE CHALLENGE IS OUT! Who will be the first PARC member to work Eric, KB6EPO/MM, aboard the USS Independence, in the Persian Gulf? Eric's address is:

Eric Johnson KB6EPO/MMI
AIMD IM-3 W/C 610
USS Independence (CV-62)
FPO San Francisco, CA
USA, 96618-2760

How about sending Eric some cards, letters, packages, or anything to break up the boredom of long hours at sea. Eric has been a PARC member for a year or so and spends more time at sea than in the San Diego area.

BK

146.730 W E E K L Y E V E N T S
M->S 8 pm S.D.Co Traffic Net
(except 1st Wed club meeting)
MON 9 pm Microwave Net
TUE 9 pm S.D. Pkt.Voice Net
WED 9 pm Open, suggestions?
THU 9 pm Ham Help Net
FRI 9 pm Code Practice Net
SAT 10 am Sailboaters check-in
SUN 8:30 am ARES Net
SUN 10 am SSS (Sailboaters Net)
MON 7:30pm RACES Net on 147.195

BK#####
N E T S

Those handling traffic can deliver traffic which is outside of their normal calling districts if they can make use of the KASUAI/R (147.130) and WA6IPD/R (146.175) repeaters. I have been using WA6IPD/R for delivering Oceanside traffic. Sometime during the day or during low use hours you should try these autopatches to see if you can process phone calls easily. Remember, you need a PL for both patches!

N E T S O N 146.730(-)

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. We need more net controls and liaisons who can use the 146.850 repeater to take traffic in and out of SDCo at 2100 hours. Net managers are Joe-N6RVO, Chuck-N6TJT, and Rich-KI6ZH. Net controls are (M->S): A6HQM, N6RVO, WA1ZEN, W6EYP, N6TJT, N6NZX, N6TEP. SCNV liaisons are: N6RVO, and KISZM. We need more SCNV liaisons who can hit the Crestline repeater on 146.850(-) in the evening at 9pm. Please contact KI6ZH, N6TJT, or N6RVO if you can help. Duty cycle once per week but you have a backup.

The SUNDAY NORTH COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NET meets each Sunday morning at 8:30am to disseminate emergency preparedness information to amateurs in North County and other interested amateurs throughout the county. Net manager is Stan-W9FQN. Other net controls are: K6BNMK, N6NZX, K6BNZA, W6JSP, W6HCD, N6WTE, N6QJE, N6UIA, W6SHFE, N6QQF & W6UTQ. Duty cycle 2mo every two years.

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 10:00 Saturday mornings. This net is on a trial basis for September and October. Informal net controls are: A6STR and W6QCA.

The MONDAY EVENING MICROWAVE NET meets each week at 2100 hours to disseminate information on microwaves. Kerry-W6IZS is moderator and net control. Other net controls are: W6OYJ, & 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-K9SMU is moderator

and net control. Other net controls are: W6GHHV, & N6NKF. Suggest you join SANDPAC if you are interested in packet.

The WEDNESDAY COMPUTER NET does not seem to be functioning at present so if anyone has any suggestions for this time slot, please contact a club officer. Suggestions have been: Spanish, what to do in S.D.Co, Ham Radio in S.D.Co., etc. Perhaps we could have three groups meet once a month, 2nd, 3rd, and last Wednesday if we can't find a group for each Wednesday evening.

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: K6GIL(1st), A6KY(2nd), K6GKE(last) & W9FQN the rest of the time. We need more net controls. Duty cycle once per month.

The FRIDAY CODE PRACTICE NET meets each week at 2100 hours to help amateurs check their code speed before the Saturday morning VE code tests and to let you see what your present code speed is. Net controls are: W9FQN, N6NZX, & K6BNZA. We need more net controls who have computers that can be used to send code practice material.

ARES uses 146.730 when they have emergencies and ARES has priority use of the frequency.

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.

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. Contact Frank-W6GHFE for info.

(9-14)PALA/PAUMA VALLEY RACES is looking for help from RACES members in Valley Center and Fallbrook: Mark-KC6CZQ-742-1539.

(6)VISTA RACES needs 3-4 Vista hams to man the Melrose fire house on Monday nights or check in from their home station: Bob-KE6GX-727-0606 for info.

(7)Michael Hamann, W6CSH, needs hams to help with the ARES SoCal-wide Kaiser Hospital Disaster Net on 2M: 52B-5380 for info.

BK

D I S C L A I M E R S

Meetings at the LINCOLN MIDDLE SCHOOL are NOT a function of the Vista Unified School District and are NOT sanctioned by the school district 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.

P O T P O U R R I

OFFICIAL CLUB BADGES: see John Tentor, W6OLQ, mtgs or 672-3891.

BK

One of my former students and great CW operator, KNOE/KH3, placed 7th in CQ magazine's World-Wide SSB DX contest in 1989. (W9FQN)

BK

Joe-NSYPC just bought from PARC six Ham stamp pins for presents. Christmas is coming and they do make great gifts for Hams and non-Hams.

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

California leads in licensed amateurs, 66,493. The next for states are:

Florida 28,872 New York 27,014
Texas 27,853 Ohio 22,266

At the bottom of the list are: A.Samoa-27, DC-451, Wyoming-1,023, and Delaware-1,092.

BK

The LIFE Emergency Broadcast Frequency is 155.940 MHz. This is a good frequency to monitor during a county disaster since they will broadcast bulletins such as Red Cross Shelter locations or county evacuation procedures. (de WF6K/EARS)

BK

Joe-WA6VNR sent me a nice ad advertising inflatable and solid Scarecrows (Horned Owl and Giant 6' Snake) from Dalen Products, Inc., 11110 Gilbert Dr., Knoxville,

Tennessee 37932. Thanks Joe for the info. I hate to see those big birds sitting on my 2M beam elements.

BK

Many of you with Multimode packet TNCs should be able to receive RTTY transmissions from news and press agencies by looking at the following frequency ranges:

6.76- 7.40	14.45-15.00
7.40- 8.12	15.48-16.40
10.00-11.16	18.00-20.80

You can probably find news, telegrams, utilities, and the military on:

2.300 - 2.500	10.000 - 11.700
3.400 - 3.500	11.970 - 14.000
4.000 - 4.750	14.400 - 15.100
5.060 - 5.950	15.450 - 17.700
6.200 - 7.000	17.900 - 21.000
7.300 - 9.500	21.700 - 25.600
9.775 -10.000	26.150 - 26.950

Back in the good old days with a model 15 TTY machine I used to copy RTTY telegrams from Cuba, weather data, and AP transmissions into South America (W9FQN).

BK

The 10-10 Internation nets are 28.800 MHz, daily, at 1800 UCT. Alternate frequency is 28.775. Contact Dave-WA6HQM if you have any questions about the 10-10 organization.

BK
The FCC has announced in report No. GN-58 dated 5-10-90 that all felony convictions are to be considered in licensing proceedings.

BK

Received a nice note from Earl Leak-K6CLU, 38 Riviera, Grants Pass, OR 97527.

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

EARS T-HUNTS: Contact Jo-KB6NMM 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.

73, de W6NUG and W9FQN

73 FROM **KB6EP/MM** ITU REGION

TNX FOR FB QSO OM! HAPPY DX'ing TO YOU!

AT SEA IN PORT

AREA

P.O. BOX 996
IMPERIAL BEACH, CA. 92032

PLS TNX

QSL

OPS CALL:	OPS NAME:	CONF	QSO WITH	DATE	ON	UTC	OFF	FREQUENCY	MODE	RIG	ANTENNA	MISC.



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PARC ENLISTMENT APPLICATION

Mail form with \$\$ to PARC, P. O. Box 1603, Vista, CA 92085-0530 or hand to Jo-KB6NMMK, 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. 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 cross lion.

Call _____ Name _____

Expires _____ Address _____

Class _____ City _____ State _____ Zip _____

Old Call _____ Phone# _____ home _____ work _____ Confidential yes-no _____

Date 1st licensed _____ Birth date _____ Thomas Brothers location, page # _____ coord _____

Names & call of family members in PARC _____

ARRL _____ RACES _____ ARES _____ RedFlag _____ Blood donor _____ Type _____ Comments: _____

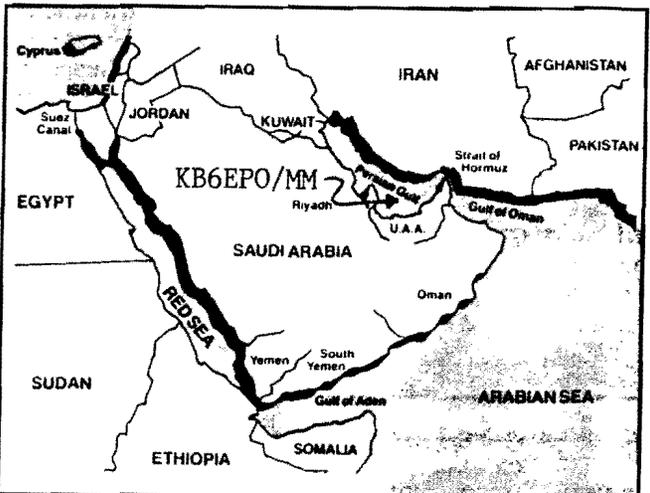
+++++ cross lion +++++

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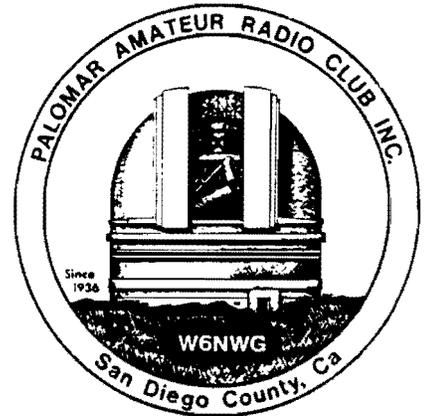


Scope

W6NWG

Palomar Amateur Radio Club Inc.

POST OFFICE BOX 1603, VISTA, CALIFORNIA 92085-0530



W6NWG/R 146.73(-), 449.425(-), 145.05(Pkt); KAGUAI/R 147.13(+)(Patch); WDGFR/R 224.90(-); WAGIPD/R 146.175(+)(Patch)

VOL XXV, NO. 11

NOVEMBER 1990

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 Wilhelmy	W I 6 B	Rancho Santa Fe	756-3133
Editor :	Stan Rohrer(temp)	W 9 F Q N	Valley Center	749-0276
Memberships:	Jo Ashley	K B 6 N M K	Escondido	741-2560



NOVEMBER 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

- Nov 3-4 - ARRL Sweepstakes, CW (possible club event)
 - Nov 7 Wed - PARC Club Meeting
Election Nominations Due
 - Nov 10 Sat - PARC VE Test, AAGOM
 - Nov 10-11 - Cystic Fibrosis Tour
 - Nov 15 Thu - PARC Exec Cm. @ WI6B
 - Nov 17-18 - ARRL Sweepstakes, Ph (possible club event)
 - Nov 17 Sat - EARS DFing, ck 146.88
 - Nov 21 Wed - Deadline for SCOPE
 - Nov 24-25 - CQ World Wide CW
 - Nov 27 Tue - SCOPE in the mail
 - Dec 2-3 - GoWestGen Code Class
Airporter Inn Or.Co.
- (Send calendar items to W9FQN)

show a short video, and answer questions. The nomination committee will make its report and nominations will be accepted from the floor.

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 SALE TABLE where you can bring one or two small items for sale with 10% going to the club.

We will also introduce the person driving the furthest to the meeting and the person walking the furthest to the meeting. Keep track of your milage.

spot equipment and potential buyers, and Duane-WBGR doing a yeoman's job as auctioneer. Thanks to everyone!

Attending were were 59 members and 27 guests who enjoyed the coffee and goodies under the able control of Larry Gogle-KC60BA and his wife Keiko, who filled the table with lots of great goodies. Larry is a new member and just received his Technician call the day after the club auction. Art Nye-KB6YHZ is back and is looking for "goodies" to go along with the excellent coffee he makes.

WANT to BE a HAM?
(or Dial-a-Ham)

NEXT CLUB MEETING

Our next club meeting will be NOVEMBER 7th at the Lincoln Middle School on Escondido Avenue in Vista. The program will be by Fried Heyn-WA6WZO, our Southwestern Division Director for the Amateur Radio Relay League (ARRL). He will bring us up to date on the latest Ham issues,

LAST CLUB MEETING

Our annual AUCTION was a great success with the club netting \$200 in commissions and the selling of club donated equipment. Dennis-N6KI ran an excellent auction with Ron-WI6B handling the money, David-AAGKY and his good looking friend helping

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:EleanoreCall:N6QJE:729-0850

ChulaVista:BetyMahoney:KB6DGR:420-2277
 DEL MAR:GerrySanford:KC6BJM:755-5244
 ESCONCIDO: Jo Ashley:KB6NPK:741-2560
 ENCINITAS:DaveCopley:W6HQM:753-2605
 FALLBROOK:ArtRideout:W6GIPD:728-8834
 LAKESIDE:Mac McBride:W6GXR:581-2211
 LA MESA: Roger Jaffe: N6UUN:697-6025
 LEUCADIA: Bud Lincoln:KG6VX:436-9983
 OCEANSIDE: Lloyd Hunt:W6TFB:439-8227
 PAUMA-PALA:Mark Ross:KC6CZD:742-1539
 PointLoma:MickMcDaniel:W6FGE:222-3912
 POWAY:MarkSchlessinger:N6NNI:748-8391
 RAMONA: Vernon Leming:A6GUU:789-3070
 RanchoS.Fe:RonWilhelmy:W16B:756-3133
 SAN DIEGO:John Tentor:W6LQ:672-3891
 S.D.:Dennis Vernacchia:N6KI:271-6079
 SanMARCOS:RustyMassie:A6GM:747-5872
 SanMARCOS:FloydHarvey:W6JSP:741-8391
 SolanaBe:LouBroadbent:N6CKQ:755-9179
 VALLEYctr:Stan Rohrer:W9FQN:749-0276
 VISTA: Jack Hanthorn:KI6JM: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 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."

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

GORDON WEST (Sat/Sun Dec 2 & 3) has a General code and theory class. Multiple tests are given: (714) 549-5000.



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 the second Thursday after the club meeting at the home of various of its members.

The October meeting was at Ron-

W16B's QTH and we all enjoyed the drink and tasties. Our November meeting will also be at Ron-W16B's QTH in Rancho Santa Fe.

DISCUSSED: autopatches in Vista and North San Diego, new bunker or shed, nomination committee report, TASMA, ads, 3,200 Ahr batteries, and programs.

APPROVED: telephone digit filter (\$100), battery transportation costs (<\$200), and shed transportation costs (<\$30). Accepted \$200 from Auction (\$150 sales + \$50 club equipment).

Contact any executive member for additional information on executive committee meetings> In attendance: (officers) Stan-W9FQN, Jack-KI6JM, Nacho-W6MCD & Ron-W16B; (committee head) Jo-KB6NPK. PARC members are welcome to attend these meetings. The goodies were enjoyed by all.

de EL PRESIDENTE
 - W 9 F Q N -



Ralph-K6HAV (editor on leave of absence) used to pick up the mail out of the club box before taking his sabbatical to Salt Lake City which worked quite well since he was the SCOPE editor. Jack-KI6JM is now picking up the mail for the club. Since I live in the hills of Valley Center, it is taking from 2-3 weeks for me to receive mail addressed to the president (me) or the temporary editor (me) using the club's mail box. So I suggest that if you have anything for me you might want to use 30311 Circle R Lane, Valley Center, CA 92082-9423 for faster service.

Club elections are this December and nominations for president, VP, Secretary, and Treasurer will be presented at the November club meeting.

An investigation of our property on Palomar Mountain indicates that

it is zoned RR-35 which means that we will not be able to install a cargo container on the property. Any expansion that we do will have to be in the form of a block building put up with a building permit from the county or a shed with less than 120 sq. feet.

Well, it certainly does look as if KOJPK on 146.730 is going to be coordinated by TASMA. They started the 90 day test phase about a month ago. While we are not trying to put them off the air, we are trying to have some restrictions imposed upon them so that they don't cause so much interference in San Diego County:

- 1) Antenna null to SD coast. (antenna restrictions)
- 2) Power restrictions.
- 3) Reduced rcvr pickup to SD Co. using PL on their input.



It is really too bad that a non-club repeater with little or no following is allowed to put such strong signals into SD without some sort of restrictions. The KOJPK repeater is non-club run by only one or two individuals while we have 350+ members plus untold non-PARC member users. We support all types of nets(13) and public service activities while we have never heard anything of a public service nature on their machine. We also object to our being able to get into their machine from S.D.Co. but this does not seem to bother them at all - probably because few amateurs listen to their machine. We also object to their being keyed up by packet machines in the LA area sending kerchunks into SD. If they were PL'ed, it shure would help both areas have a quieter frequency. W6NMG puts a PL on its output so that members with decoders don't have to listen to the trash from up north. The users of KOJPK seldom key up W6NMG which means we have done a good job of shielding W6NMG to the North. Repeaters should only transmit and receive to areas where



they are able to be used for communication on a daily basis. Please let club officers know immediately if you are able to hear KOJPK (real bad audio) and/or key up the KOJPK repeater. I used to hear them on my HT and key them up with 1 watt from my front driveway but for some reason or another on 10-11-90 using a beam and 70 watts did not key them. Hope they didn't blow up a tube!

73, Stan W9FQN

+++++ SK +++++
+ FRED OLSEN +
+ -W6PNT - +

+ Fred, a long time member of PARC +
+ died October 19th of a heart +
+ attack. He was very active with +
+ the first Radio Shack computers. +

+++++ SK +++++
+ Gen. CURTIS LEMAY +
+ -W6EZV - +

+ Flying Fortresses over Germany,+
+ atomic bombing Japan, Berlin Air +
+ lift, and Strategic Air Command.+
+ Used amateur SSB aboard airplanes+
+ to show its capabilities. Worked +
+ with Art Collins pushing SSB. +

+++++ SK +++++
+ HAROLD EASTERLY, Jr +
+ -K6GQS - +

+ Dr. Easterly died July 30, 1990. +
+ He was a long time member of PARC+
+ and will be missed by all those +
+ who knew him. +

+++++ SK +++++

NEWSLETTER HELPERS
Labels, Computer Bill Whipple N6COU
Ads, Art, Member Jo Ashley K6BNMK
Ads \$\$\$ John Tentor W6DLQ
Folding Lloyd Hunt W6TFB
Mail/fold Jack Hanthorn KI6JM
Pickup + \$\$ Ron Wilhelmy WI6B

Without these people life would be difficult (de W9FQN). The 6 sheet October SCOPE cost \$127.41 or 35.39c/SCOPE or \$4.25/year. Advertising reduces this to 20c/SCOPE and \$2.40/yr which is just under our constitution limit of \$3/yr - except that we have not mentioned postage - and who knows

what that is since the post office never sends us an itemized statement but only tells us to keep the account full of money! In February of '91 2nd class postage is supposed to go up about 31% along with the 1st class going from 25 to 30c/oz. SCOPEs sent to interested hams during the month cost us 45c (25c stamp) which means we could send out 18 trial SCOPEs and if we netted one member from the mailing, we would break about even. We have been averaging 5.3 sheets per issue for 1990.



THANKS TO -->

All club members who participated in the Auction. The checks are in the mail!

- BK -

AJ-K6BNML for participating in the Southwestern Division Convention Youth Forum and for stirring rendition of the Star Spangled Banner on the Flugle Horn at the Main Convention Banquet.

- BK -

Norm-N6QQF for taking the ARES net for August and September and to Carl-N6NZX and Mary-K6GNZA for consenting to take it for the rest of October and November.

- BK -

Larry Gogle-KC6OBA for consenting to take over the Ham Help net the last Thursday of the month when I have SANDARC meetings.

- BK -

John-W6BIQS for "ridding shot gun" for W9FQN on the trip up to Hollywood (250 miles) to pick up the all aluminum military type shed donated by Bob-W6QQQ. As some of you old timers might remember, Bob's father used to be in the electronic transceiver business and the shed was used by the military as part of a small communications trailer.

REPEATER S, etc.

TECHNICAL: John Quivinin, W6BIQS
TRUSTEES->
W6NWG/R: Ron Wilhelmy, WI6B

145.05 pkt, 146.175(-), 449.425(-)
KAGUAI/R: Erik Thompson, 147.13(-)
W6AIPD/R: Art Rideout, 146.175(+)
W6BHF/R: Ron Berger-NE6T, 224.9(-)

WORKPARTY: Sept, installed 450 antenna at 30' on the lower crossarms. Stan-W9FQN did the climbing.

WORKPARTY: Sept-30, John-W6BIQS and Matt-N6OEI finished installation of the batteries with their heater blankets and did general cleanup.

WORKPARTY: Oct-6, Stan-W9FQN took the donated metal shed (W6QQQ) to the mountain and started moving some of the non-repeater items out of the repeater building. He was assisted and supervised by Barbara-KA6FPS.

WORKPARTY: Oct-13, our tree trimmer lowered the pine tree to the left of the bunker and cleaned up some other trees with branches too close to the tower. This should give all repeaters a clearer shot to San Diego County. John-W6BIQS supervised our cutter.

Most repeaters have a "tail-end" beep at the end of each transmission but our .73 machine does not. We do have beeps! A beeping during each transmission every few seconds indicates that the repeater has lost 110vac and is on backup power (12VDC). A beeping at the beginning of each transmission indicates that the repeater has been taken off of its 100 second "time-out" mode by a control operator which prevents the repeater from being timed out!

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 with a Navy ship checking in from 200 miles off the coast in October. The record seems to be an aircraft carrier from 1,000 miles off the coast. 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.

W 6 N W G - 146.730(-) ==>

PL on the its output of 107.2 Hz to prevent you from receiving JPK in LA, if you have a decoder. Battery backup for one day.

W 6 N W G - 145.050(s) ==>

Motorola packet digi-peater, battery backup for three days.

W 6 N W G - 449.425(-) ==>

Needs more usage. Sometimes on PL when radar interference is present. Battery backup for two days. Changed to PL 107.2 MHz.

K A 6 U A I - 147.130(+)(PL?) ==>

107.2 Hz PL during interference conditions. PL removed with tones (#80) and back on with (#80). Autopatch but no battery backup (yet).

W A 6 I P D - 146.175(-)(PL) ==>

Use 107.2 Hz PL and low power along the coast to prevent bringing up LA repeaters which are not PL'd. Battery backup and auto-patch.

220 C L U B of S.D. ==>

Located in the PARC bunker. PARC members are welcome to use the repeater but should consider supporting the 220 Club of San Diego if more than an occasional user. Battery backup.

P A T C H E S ==>

Both autopatches seem to be working great with good sounding audio and I have been using both of them for passing 8 p.m. traffic from

our traffic net.



PATCH QUESTION: What if my phone call is answered with a company name? BE CAREFULL! Make doubly sure that your comments and theirs in NO WAY can be construed as a business communication by ANY standard. We not only want to be legal but we even want to sound that way beyond a shadow of a doubt! As in tennis, if you don't know whether the ball was "in" or "out", you ALWAYS resolve the decision in favor of your opponent.

AUTOPATCHES: the 2nd autopatch, Vista based, will cover Escondido, Fallbrook, Ocsd-Carlsbad, Ocsd-Ocsd, San Marcos, Valley Center, Vista, and the possibility of Ocsd-Pendleton and Rancho Santa Fe; the 3rd autopatch, SD-Mira Mesa based, will probably cover Del Mar, El Cajon, La Jolla, Poway, Rancho Bernardo, Rancho Penasquitos, SD-Linda Vista, SD-Mira Mesa and the possibility of Rancho Santa Fe. Members working on these autopatches are: Steve-NGUIA, Erik-KAGUAI, Larry-WB6FMT, Dennis-NGKI, and Stan-W9FQN.

When talking on your radio it is probably good public relations not to make statements over the air saying that your radio helps "beat the phone charges" or it "saves you money." You are probably an amateur radio operator for other reasons and the "monitoring" public might get the wrong impression even though periodically it might save you some charges. Anything important you would use the phone so most contacts of this nature are really more in "chit-chat" nature which probably would not have occurred without amateur radio.

REMEMBER: 911 emergency calls need to indicate the call is via Ham Radio autopatch.

DO NOT give out the 3-digit UP DOWN autopatch codes over the air

but if needed, feel free to dial them for non-members. Also feel free to remove the PL input to t' repeater for others. These codes will be changed as needed.

Please add 411 to Erik's autopatch list of last month.

Autopatches and areas covered ==>> (cut out or copy for car & home use)

KAGUAI:147.130(-)(107.2) (*07 & #07)

(O)side,Cardi(f),(L)eucladia,(D)elMar
(E)ncinitas,(C)arlsbad, San(M)arcos
(R)ancho Santa Fe & (S)olana Beach
259d 411 431oc433o 434c 436e 438oc
439o 471m 481d 591 632ce720oc721o
722o 729oc744m 753fe754 755d 756r
757o 759r 792d 793 853 931oc942e
943e 944e 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

WASIPD:146.175(-)(107.2) (4321 & #1)

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

Non-emergency:

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



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, cell 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 th month addressed to the editor at his home address.

SWAPMEET QUESTIONS: Dennis-N6KI-price\$; John-W6IQS-VHF-UHF-Hardline; Kerry-N6IZW-Microwave; Paul-K8SMU-Pkt-Computers; and Bill-K8MCMU-ATV.

- BK -

(10-20)1991 N.American or International CALLBOOKS (\$29.95), PARC price \$23.89 or \$45.89 for both; 1991 ARRL Handbook (\$25) for \$21.89; add 7.25% Ca tax; shipping \$1.75 first book, rest \$.95 each; order before Nov.10; shipped by Nov.30; check to Duane Heise, 16832 Whirlwind Lane, Ramona, CA 92065, eve 789-3674.

- 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, 1948 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 -

(9-19)Suan-400 xcvr 80-10M 400w \$249; Hy-gain Thunderbird 3el beam \$65; Ham-II rotator, 50' cable \$75; Heath IM-4180 FM deviation meter \$75; Sure 444-0 microphone \$39; Heathkit solid state grid-dip meter \$35; Scotty-KH6TL-727-8836.

- BK -

(9-9)Yaesu 2M FT-221 all mode base xcvr with Yaesu phone patch, SP-901P \$300; Mark-KC6CZO-742-1539.

- BK -

(9-6)ICOM-35 desk rapid charger \$64, 8P-8 super 1200mah pak \$54 all unused; IC-2A stolen before used;

ICOM BP-3 + wall charger \$46, unused Coma Spec SS-32SMP micro sized encoder \$22 (this would be good for 107.2HZ PL on WA6IPD and KASUIA; Mike-W6GCSH-leave msg 283-2447.

- BK -

(8-12)MFJ Ant Tuner Mod949C Dulux2, \$70; Mick-W6FGE-222-3912.

- BK -

(8-10)Uniden 2510 all mode 10M xcvr, Telex Dbl Zepp 5/8wave 2M base ant; Tim-N77V-480-2649.

- BK -

(8-1)From Mick McDaniel's garage: Kenwood TR2400 2M 1.5W HT, keypad, subaudible gen, duck, earfone, bat/chg, spkr mike, and extendable whip \$125; ICOM IC37A 220MHz 25W xcvr, base or mobile, w/pwr, Cushcraft ant A-220-11 11el beam, coax, rotator system, roof tower and mast \$295; AZDEN Mod2800 10M xcvr \$100; Heath COAX SWITCH 4 position \$10; 2M FM LINEAR 2W in 20W out \$10; ANTENNA TUNER MFJ Mod949C Delux tuner II \$70. Call Mick-W6FGE-222-3912.

WANTED



(9-7)Paul-KZ6X is looking for someone to help a technician with house calls. Probably help to move the TV sets so the technician can work on them. Time would be 8:30 to 5:30 on Wednesdays and Fridays. If interested, call Paul at North Co. Service Center, 436-2900. Looks like a good part time job for someone - and see the coastal area. Paul was head of the 15/40M SSB station that did so well this last Field Day.

- BK -

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

Remember, our ZIP code has been changed from 9208(3)-0530 to 9208(5)-0530.



NEW: Chuck Griswald-KC6CQ (2yr); Harvey Kirk-KC6IQM (2yr); Wesley Wilson-WA8UGG (2y); Bob Hughes-W6BVU; Oliver Bjerke-W6UAL; Jack Meadows-WA6GGS; William Corwin-K6PHG; Greg Harris-W6PMI (USN); Roy Davis-W6BRKN; Ted Benson-WA6BEJ; Rick Hatem-W62ICW; Tom Engardio-W6BBHE; Ted Luttmann-KC6MAR; Larry Larison-W7HKI; David Dumlao-KC6NSA.

RENEW: Donald Saba(D.D.S.)-AA6WS (3yr); Kevin-N6XXP; Paul-W6B8RX; Scott-N6ZOR; Jack-WA6DYV; Herbert-K06WX; Chuck-N6TJT; Fred-K06WZ; Pete-W660BH; Louis-KG5FR; Felipe-N6UIT; Gerald-W6NJY; Betty-K86DSC; Bob-K565; John-W6BAW; Victor-N6OYG; Richard-KJ6N; Tim-KI6GI; Mac-W86GXR; Chuck-KI6TG.

CHANGED: Scott Weber-KC6KEK--> N6ZOR; Shannon Mossman-KB6OPQ--> KC6NRB; Larry Gugle-Assoc.--> KC6OBA; Philip Milazzo-Assoc.--> KC6DEI.

SCOPE: Michael Sanford-N6WUY (NY Medical College).

NOTICE: If your address label reads PRC 9010 (yr/mo), this is ur LAST ISSUE!

If your address label reads other than 9107, 9207, or 9307, contact Jo-KB6MVK for the correct amount of dues to get you "back-in-step" WHEN it is time for you to renew.

SANDARC/PARC VE Testing de AA6OM, Rusty Masse

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.

#3-OCTOBER: 9 applicants, 16

elements, & 6 examinees passed 10 elements-63% el pass rate.

Since August: 28 app, 49 el, 32 el passed-65% el pass rate.

EXAM TEAM OCT: Jack-K18JM, Jack-AAGUQ, Steve-N6RUV, Sam-W6YV, Dan-WAGHYB, and Rusty-AA6DM.

FCC CALL SIGNS (9-1-90): AAGXU-KK8PA-N6ZZZ-KC6NMS.

Other SANDARC-VEC exams: 1st Sat. El Cajon, 3rd Normal Heights, 4th Chula Vista, & last Escondido New Life in Christ Church, 300 N. Broadway, by EARS.

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 BA the test date. Bring ORIGINALS of licenses & certificates. Questions: call SANDARC 465-EXAM.

GENERAL NEWS

The 150K CYSTIC FIBROSIS bicycle tour from Escondido to Warner Springs Ranch will be held November 10-11. Jo-K86NPK is looking for operators to help with this public service event starting at 7 am and ending at 2 pm although you would not be needed the entire time. You can sign up at the next club meeting. They will probably be using the 146.73 repeater during these two days.

- BK -

At the October meeting someone left a pretty sweater in the meeting room. Contact W9FQN for its location.

- BK -

Check the November QST magazine for a listing of Field Day scores and where W6NMG placed in the USA, California, and San Diego County. Also be on the lookout for Dennis-N6KI's first installment "Calling Home From Vietnam" in the same issue. Part two is the longest and will be in the December issue.

- BK -

One of our members, Mark Goodley-N6RMM, is Editor of HAMS FOR CHRISTIAN MISSIONARIES. Mark has a nice newsletter and several pages of information on Ham Radio Mission. They are inter-denominational helping missionaries to become amateurs and get on the air. If you have any questions on the group and would possibly like to help, please contact Mark at 3120 Ryan Dr., Escondido, CA 92025, (619)-480-4477.

Net Schedules

14.320/0200 UTC/700pm PST/M-W-F

14.280/M-S/1800 UTC IMRA

21.390/M-F/2000 UTC Halo Net

They are also looking for net control stations on these frequencies.

- BK -

REMEMBER, THE CHALLENGE IS OUT! Who will be the first PARC member to work Eric, KB6EPO/MM, aboard the USS Independence, in the Persian Gulf before it returns to San Diego in December? Eric's address is:

Eric Johnson KB6EPO/MMI

AIMD IM-3 W/C 610

USS Independence (CV-62)

FPO San Francisco, CA

USA, 96618-2760

Eric's radio schedule was in the September SCOPE.

NETS

Those handling traffic can deliver traffic which is outside of their normal calling districts if they can make use of the KASUAI/R (147.130) and W6IIPD/R (146.175) autopatch repeaters. I have been using W6IIPD/R for delivering Oceanside traffic. Sometime during the day or during low usage hours you should try these autopatches to see if you can complete phone calls easily. Remember, you need a PL of 107.2 to use these patches!

TOUR DE NORTH COUNTY bicycle race on Sunday, October 14th, used both 146.730 and 147.130 for coverage of the event. Many thanks to all PARC members who helped: Bob-W6BQQQ, Larry-W6QSV, Ellen-N6UUM, Nancy-

KC6FZN, Karl-N6MLX, Bob-KS6S, Mark-KC6CZO, and Steve-AA8VO (organizer).

All voice net members should remember that they are operating voice modulation and not Morse Code (CW). Therefore, QSL, QSY, QRT, etc., are not needed although I must confess I do like QSY even though I know it is wrong (de W9FQN).

146.73 WEEKLY EVENTS

M->S 2000 S.O.Co Traffic Net
(except 1st Wed club meeting)
MON 2100 Microwave Net
TUE 2100 S.O. 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

NETS ON 146.730(-)

The SAN DIEGO COUNTY TRAFFIC NET(SOCTN) 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. We need more net controls and liaisons who can use the 146.850 repeater to take traffic in and out of SOCo at 2100 hours. Net managers are Joe-N6RVO, Chuck-N6TJT, and Rich-KI6ZH. Net controls are (M->S): Dave-A6HQM, N6RVO, Tim-WA1ZEN, Warren-W6EYP, N6TJT, Carl-N6NZX, Charles-N6TEP. SCNV liaisons are: N6RVO, Bob-K6SVX, and KI6ZH. We need more SCNV liaisons who can hit the Crestline repeater on 146.850(-) in the evening at 9pm. Please contact KI6ZH, N6TJT, or N6RVO if you can help.

The Sunday NORTH COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) net meets each Sunday morning at 8:30am to disseminate emergency preparedness information to amateurs in North County and other interested amateurs throughout the county. Net manager

empty tank (gas drained) is conducive to corrosion. There are three different gas stabilizers on the market with ounce vs gallons (thanks KSLM, W6NLG & Ham News):

- 1) West Marine Products #245282. 8 oz to 1 gal, unknown months.

- 2) Napa Auto Parts # 765-1040. 8 oz to 1 gal, 12 months
 - 3) United Auto Parts # 2682. 8 oz to 1 gal, 12 months
- Add stabilizer to gas tank and shake. Shut off gas while motor is running and run gas out of engine.

When you run it next, you might consider adding a carburetor cleaner. With all of these additives, you might not need to burn any gas.

- BK -

73, de W6NLG and W9FQN



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PARC ENLISTMENT 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. 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 Phone _____ Work Phone _____
 Old Call _____ Phone# _____ Confidential yes-no _____ Work _____ Confidential yes-no _____
 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: _____



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- FLASH: We placed 2nd Field Day 5A!
 Page -- Topics --
- 1 - Calendar; Next/Last Mtg.; Elmers
 - 2 - Exec. Mtg.; Pres. Message(KOJPK)
 - 3 - Deaths; Helpers; Inx; Repeaters
 - 4 - Autopatch numbers; Forsail
 - 5 - Membership Info.; Guys/Dolls (KB6NMK)
 - 6 - Wanted; VE Test; News(tour, etc); Nets
 - 7 - Potpourri(PL Diagram; gas stabalizer)
 (for those who have lots of gas)
 - 8 - Ads: REALTOR; STCR Shop; P.O.Statement
 - 9 - Ads: HRO, Palomar Eng., Travel, Antenna



Scope

W6NWG

Palomar Amateur Radio Club Inc.

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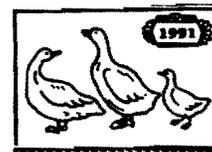
W6NWG/R 146.73(-), 449.425(-), 145.05(Pkt); KAGUAI/R 147.13(+)(Patch); W6GHR/R 224.90(-); W6GIPD/R 146.175(+)(Patch)

VOL XXV, NO. 12

DECEMBER 1990



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



DECEMBER 5th 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 5 Wed - PARC Club Meeting
- Christmas Party & Dancing Girls
- Dec 7 Fri - TASMA Meeting / P.H.
- Dec 8 Sat - PARC VE Test, AAGOM
- DEC 8-9 - ARRL 10M SSB W6NWG
- DEC 11 Tue - Facetious Pty 6:30pm
- Allies, Encinitas, Ck 147.130
- Dec 14 Fri - Deadline for SCOPE
- Dec 15 Sat - EARS DFing, ck 146.88
- Jan 2 Wed - PARC Club Meeting
- (Send calendar items to W9FQN)

- Exec Mtg, President's Message . 2
- Recognition, W6UZL, Repeaters . 3
- Work Parties at repeater site . 4
- Auto Patches, For Sale, Wanted 5
- Membership, VE Program, News .. 6
- News, Nets 7
- Potpourri 8
- Ads and PARC Application ... 9-10

NEXT CLUB MEETING

Our next club meeting will be DECEMBER 5th at 7:30pm in the Lincoln Middle School on Escondido Avenue in Vista. The program will be longer member introductions combined with SHOW and TELL. Be prepared to say something interesting about: 1)your best DX, 2)famous people you have talked to, 3)introduce your HT, new equipment, 4)introduce another hobby of yours, OR 5)say something interesting (WOW). We will also elect our 1991 officers. The meeting is SOCIAL so bring your goodies (YL/DM, xmas food, punch, etc.) The club will provide cups, plates, and utensils, if needed.

LAST CLUB MEETING

Our ARRL Southwest Division representative, Fried Heyn-W6WZ0, and Art Smith-N6INI provided us with an interesting evening with questions and answers on NO CODE, ARRL positions, and a VCR tape on amateur TV in space. Sandy-W6WZN,

Fried's wife, kept track of our voting on ARRL positions.

Attending were 62 members and 14 guests who enjoyed the coffee and goodies. Art-KB6YHZ did a great job on the coffee and Kieko was there with more goodies - yum, yum. If you don't like the meetings, come for the tasties!

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:W6GR:753-4821
- CARLSBAD:EleanoreCall:N6QJE:729-0850
- ChulaVistaBetyMahoneyKB6DGR:420-2277
- DEL MAR:GerrySanford:KC6BJM:755-5244
- ESCONDIDO: Jo Ashley:KB6NPK:741-2560
- ENCINITAS:DaveCopley:W6GQM:753-2605
- FALLBROOK:ArRideout:W6GIPD:728-6834
- LAKESIDE:Mac McBride:W6GXR:561-2211
- LA MESA: Roger Jaffe: N6UUN:697-6025
- LEUCADIA: Bud Lincoln:KG6VX:436-9983



PAUMA-PALA: Mark Ross: KC6CZD: 742-1539
 Point Loma: Mick McDaniel: W6FGE: 222-3912
 POWAY: Mark Schlessinger: N6NNI: 748-8391
 RAMONA: Vernon Leming: A6GUU: 789-3070
 Rancho S. Fe: Ron Wilhelm: W16B: 756-3133
 SAN DIEGO: John Tentor: W6DLQ: 672-3891
 S.D.: Dennis Vernacchia: N6KI: 271-6079
 San MARCOS: Rusty Massie: A6GOM: 747-5872
 San MARCOS: Floyd Harvey: W6JSP: 741-8391
 Solana Bes: Lou Broadbent: N6CKQ: 755-9179
 VALLEY ctr: Stan Rohrer: W9FQN: 749-0276
 VISTA: Jack Hanthorn: KI6JM: 598-0420

N6KI : Swapmeets, used equip. \$\$
 W6INI : ARRL, ARES, Fire Patrols
 N6IZW : Microwave, test equipment
 KB6NMK: Direction Finding info.
 KB6PCU: Interference, filters, ATV
 KB5MU : Pkt, satellite, computers
 A6GOM : VE testing, tests, helpers
 KC6PEN: Ham Help Net Thurs. Eve
 KI6RF : Mobile noise filtering
 A6TR : Sailing / boating antennas
 N6RVD : National Traffic System
 W6GV : Cable TV problems, coins
 N66W : Test equipment

The November meeting was at Ron-W16B's QTH and we all enjoyed the drink and tasties. There will be no December executive meeting.

DISCUSSED: Autopatches W6FMT-N6KI; 10M KAGUAI link freq change; sheds; CTCCS (PL) options; TASMA; KC6PEN control project; Generator; Programs Dec/Jan; loaned equip; N6QJE's bathtub problems; additional building alarms; 450 beams; \$\$ status of club. Decided to change 145.05 to a node.

W 1 A W MORSE CODE SCHEDULE

Slow practice, 5, 7.5, 10, 13, 15 wpm
 M/F: 6am, 4pm; TThSSn: 1pm, 7pm
 Fast practice, 35, 30, 25, 20, 15, 13, 10
 M/F: 1pm, 7pm; TTh: 6Am; TThSSn: 4pm
 (7.095, 14.095, 21.095, 28.095)
 W6NMG, 146.73, 9pm Friday

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

APPROVED: Phone TT filter (\$100); Locks (\$\$); 2 Bunker keys (\$\$); Crystals KAGUAI (\$75); KAGUAI-W6NMG phone line (\$\$/mo); 145.05 Node chip (\$70); no exec mtg Dec.

EXECUTIVE MEETING

The Executive Committee, consisting of the officers of the Club and the Chairman of its committees, meets at 7:30 p.m. on the second Thursday after the club meeting at the home of various of its members. PARC members are welcome to attend these meetings.

Contact any executive member for additional information on executive committee meetings. In attendance: (officers) Stan-W9FQN, Jack-KI6JM, Nacho-W6MCD and Ron-W16B; (committee head) Erik-KAGUAI. The goodies were enjoyed by all even if Ron did make the brownies.



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

CONSULTING EXPERTS
 (found on 146.730) ex=unknown
 and Sperts = drips under pressure
 W9FQN: Mexican license, nicads
 W6FME: C-64 computers > Commodore
 W6IQS: Heathkit, Motorola, Rpters

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de EL PRESIDENTE

The club accepted the nominating committee report of the following slate of officers for 1991:

President: Stan Rohrer W9FQN
 V-pres : Jack Hanthorn ... KI6JM
 Secretary: Nash Williams ... W6MCD
 Treasurer: Benton Caldwell . KK6LX

I have been president since 1985 so by the end of 1991 I will have served seven years. At the November meeting I announced that 1991 would be my last year as club president so the club has until November 1991 to find a new president.

considering adopting the following repeater policy: CONTROL CODES WILL ONLY BE USED BY OR GIVEN TO CLUB MEMBERS. Any comments? See you at the next meeting.

73, Stan W 9 F Q N

The executive committee is



NEWSLETTER HELPERS

Computer labels Bill Whipple N6COU
Ads, Art, Members Jo Ashley ... KB6NPK
Ad billing \$\$\$ John Tentor . W6QLQ
Folding/Staples Lloyd Hunt .. W6TFB
Folding Jack Hanthorn KI6JM
Mail/fold Eleanore Call N6QJE
Pickup + \$\$... Ron Wilhelmy WI6B
Mail/ZIP/Forms Stan Rohrer . W9FQN
Without these people life would
certainly be difficult (de W9FQN).

SPECIAL
RECOGNITION OF =>

Jo-KB6NPK for running the Cystic
Fibrosis bicycle event (Escondido to
Warner Springs and back to
Escondido) with help from Harry-
W6Y00, Vern-A6GUU, Jerry-W6GNJY,
Gerry-KC6BJM, Karl-N6MLX, Al-N6GNB,
Chuck-N6TJT, Ellen-N6UMW and Dave-
N6OF on 147.130. On the 146.73
repeater there was another bicycle
event from Orange Co. to Carlsbad so

both repeaters were used Saturday
and Sunday (10-11).

- BK -

Larry-KC6PEN for consenting to
take all the Thursday HAM HELP nets
except for the first Thursday of the
month. If we help just one ham per
week, the net is probably worth
while. If you have a ham radio
problem, check in and see if the net
can find an answer for you.

- BK -

Bill-KE6BH for the motorola test
set which John-W6BIQS can put to
good use at the repeater site.

- BK -

Larry-W6UTQ for always keeping
an eye out for things that the club
can use - more on this later.

- BK -

Karl-N6MLX for the five emergency
alkaline battery packs for use
during emergencies or public service
events. Looks like these came out
of aircraft and are past their
expiration date but they still test

good. Please let us know when you
need one for an emergency or public
service event.

- BK -

Lee-W6TDC for the box of variable
capacitors and for the many other
boxes of things which Lee brings
into meetings from time to time.

- BK -

Fried Heyn-W6WZO and ARRL for
the books which will be used in PARC
programs.

+++++ SK +++++
+ - WALTER HICKS - +
+ - W6UZL - +
+ Walt was a past member of PARC, +
+ active Hidden Transmitter Hunter, +
+ past SW Div. Convention Chairman, +
+ and ardent supporter of Amateur +
+ radio. He will be missed by all +
+ those who knew him. He died of a +
+ heart attack November 17th, 1990. +
+++++ SK +++++

LARRY E GUGLE, KC6PEN (619)439-4109
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REPEATERS, etc.
TECHNICAL: John Quivinin.....W6BIQS
TRUSTEES
W6NMG/R: Ron Wilhelmy.....WI6B:
145.05 pkt, 146.175(-), 449.425(-)
KAGUAI/R: Erik Thompson....147.13(-)
W6GIPD/R: Art Rideout.....146.175(+
WD6HFR/R: Ron Berger-NE6T...224.9(-)
SQUELCH/CTCSS(PL): Erik's KAGUAI
147.13 repeater can be CTCSS'd
during times of interference and can
be taken OFF of CTCSS with TT code
*80. John-W6BIQS and Larry-KC6PEN

have now installed a similar CTCSS
system (107.2Hz) for the W6NMG
146.73 repeater although it will
only be activitated at present for
certain types of interference and
for only very short periods of time
(1-3 minutes). Control codes will
be known only to control operators
so you might want to turn on your
107.2 CTCSS tone permanently just to
be on the safe side.
Several stages of CTCSS access
have been proposed. First, you
could defeat the CTCSS by a Touch

Tone (TT) code like on the 147.13
repeater. This option would
probably always be available.
Second, we could tie in the CTCSS
with the time out timer which means
those without CTCSS would have the
time out timer set for 10 seconds
and those with CTCSS the usual 100
seconds. Thirdly, we could require
a non-CTCSS carrier of two seconds
before the repeater would key up but
a CTCSS would bring it up
immediately. WE ARE MOVING towards
CTCSS on all repeaters but we will
move slowly and try to keep the



repeaters available to those without CTCSS although they probably won't get full use of the repeaters. Remember, all autopatch use will require CTCSS.

The 10 METER LINK on 147.130 should not be touch toned on by TECHNICIANS! Control of links is reserved by the FCC for General Class and above. Also do not give out the control code for the link over the air. Techs should ask a General Class club member to bring up the link for them and then to shut it down. I have found the link left in the ON position all night and it was not detected since the band was dead ... but we were still transmitting all of the late night "goings on" over the 10M link! You might make it a habit to send the OFF code twice in shutting down the link ... just to be sure. Control codes for the link can be obtained from Erik-KAGUAI or Chuck-NBTJT. Also note that the link now has an output of 29.58T and receive of 29.68R which is a popular 10m repeater frequency in Chicago and Florida allowing you to talk over their "repeater systems." BE CAREFUL ABOUT THIS and do not cause interference. When using the 10m link, be sure to indicate that you are calling over the link so that people on 2m in San Diego Co. understand that you are not calling for a response from this county.

Users of the 2M repeaters should remember that home station to home station rag-chew contacts are discouraged during mobile hours (6:30-7:30am and 4:30-5:30pm). We have no objection to home stations talking to mobiles during these times if they are willing to report emergency calls by mobiles.

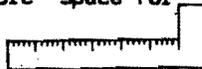
REPEATER RULE#1: A worked on repeater will always fail as soon as you get to the bottom of Palomar Mountain or after you return home.

- BK -



SCOPE DEC'90

WORKPARTY: Oct.26, leveled ground near repeater building and installed a 8x10' metal shed but only got the base and walls up. Jack-KI6JM and Stan-W9FQN leveled the ground and installed a redwood base on cement blocks. Nash-W6HCD and Art-KB6YHZ unpacked the shed and prefabed the beams. Everyone was tired at the end of the day ... and Jack and Nash got lost going home. The shed will be used to store bulky equipment (wire, antennas, poles, hardware, etc.) presently in the repeater building freeing up more space for electronic equipment.



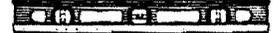
WORKPARTY: Oct.28, Jack and Stan installed plywood walls inside the shed and finished the roof ... sounds simple but it took all Sunday to finish. We still have three more sheets of plywood to put on the walls and we are debating pouring a cement floor before winter comes. John-W86IQS spent the day working on the repeater installing a CTCSS decoder so that the 146.730 repeater can be put on CTCSS during special forms of interference. A CTCSS WILL BE REQUIRED to use any autopatch on this repeater. The repeater died as soon as we got home! John suspects corroded contacts on some of the card contacts.

WORKPARTY: Oct.29 (evening), John went to Palomar Mt. to work on the CTCSS adapter and the repeater problem. The next day the repeater stayed on all day. Remember that a CTCSS does not deny access to anyone with the proper equipment but it does allow us to cut done on interference: adjacent channel, ducting of signals, intermod, spurs of improperly tuned transmitters, unwanted mixes, etc. At this time we have no intention of using CTCSS for access to 146.730 except in infrequent situations requiring it. Someday soon all repeaters will be CTCSS 100% of the time. Bet that Ralph has told you this a 100rd times!



NO EXECUTIVE MEETING IN DECEMBER

WORKPARTY: Nov.1, Stan-W9FQN picked up the new battery racks to hold fourteen 1,680 Ahr, 350 lb batteries to be installed at the repeater site. These will give us 3,360 Ahr of emergency storage capacity. This would run my HT 80 years transmitting 24hrs/day. The "trickle" charge figures out to be about 3.3 amps or 1ma/1Ahr upping our electric bill by about \$5-6 per month. A small price to pay for emergency "backup" power which should keep us on the air for about a week or so.



WORKPARTY: Nov.7, Art-KB6YHZ, Jack-KI6JM, and Stan-W9FQN finished most of the plywood inside walls of the new shed and installed the battery racks for about 5,000 pounds of batteries. The W6SQQQ donated shed was fastened to cement blocks behind the new shed.

WORKPARTY: Nov.11, John-W86IQS and Larry-KC6PEN spent Sunday the 11th at the site checking out problems with the 146.73 machine. They reset several of the squelch levels and re-soldered several suspicious solder joints. Time will tell if they hit one or more of the gremlins plaguing us lately on 73. Larry is starting work on a touch tone decoder board to be used at the 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 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. Beware of "soliciting" on 146.730 since it is a "horrible" thing to do.



< NGRVO
< KI6JM
< W6HCD

Pg 4

AUTO PATCHES

W6SIPD/R: Art Rideout.....W6SIPD
 FALLBROOK + surrounding towns
 K6GJAI/R: Erik Thompson.....K6GJAI
 ENCINITAS + surrounding towns
 *K6GJAI/R: Jerry Hauser.....W6G6FMT
 VISTA + surrounding towns
 *W6GNG/R: Dennis Vernacchia....N6KI
 SAN DIEGO + surrounding towns

*Jerry-W6G6FMT hopes that he will have the Vista patch up and running sometime in January. Dennis-N6KI is still looking for equipment and there is no timetable for this San Diego based autopatch. Steve-N6UIA is still working on 900 MHz linking equipment.

The prefixes of the operational autopatches (2) were last published in the October SCOPE and will be published again in January.

- BK -

PATCH QUESTION: Can business be conducted via amateur radio?
 ANSWER: Section 97.113(a) of FCC rules prohibits an amateur station from transmitting any communication the purpose of which is to facilitate the business or commercial affairs of any party nor can you transmit communications as an alternative to other authorized radio services, except in emergencies. All types of communications relating to business activities, including the advertising, soliciting, ordering, furnishing, delivering, accounting, or billing of any supplies, materials, or services are prohibited.

It appears that this means you could not use the autopatch to order a pizza, tell your boss you will be late to work, notify a business associate that you will be late for lunch, etc.!

- BK -

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



codes will be changed as needed.

FORSAIL



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-W6GIQS-VHF-UHF-Hardline; Kerry-N6IZW-Microwave; Paul-K8SMU-Pkt-Computers; and Bill-K8MCMU-ATV.

- 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 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; trad-ins '90 callbooks accepted: Check to Duane-AA6EE-16832-Whirlwind-Ramona-CA-92065-789-3674eve.

- BK -

(11-18)ICOM BC-35 desk 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; (IC-2A stolen before used); Mike-W6GCSH-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-W6GDC-945-1367. PLEASE NOTE THIS IS A 84 MODEL and NOT A 48 as in the last SCOPE! SORRY Mark.

- 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; KC6CZ0-Mark-742-1539.

- BK -

(9-19)Swan-400 xcvr 80-10M 400w \$249; Hy-gain Thunderbird 3el beam \$65; Ham-II rotator, 50' cable \$75; Heath IM-4180 FM deviation meter \$75; Sure 444-D microphone \$39; Heathkit solid state grid-dip meter \$35; Scotty-KH6TL-727-8836.

- BK -

(9-9)Yaesu 2M FT-221 all mode base xcvr with Yaesu phone patch, SP-901P \$300; Mark-KC6CZ0-742-1539.

- BK -

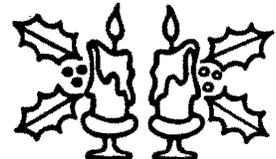
PALOMAR ARC: guy rope for antennas and masts from 260-770-1790 pounds breaking strength (4-8-12c/ft and 3/32-3/16-5/16" inches); HAM POSTAGE STAMP REPLICAS, \$5/ea (great for Christmas gifts); Stan-W9FQN-749-0276.

WANTED

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

- BK -

(11-16)Phil-KC6OEI is looking for blood donations. Phil will put the



bite on at the Christmas meeting.

- 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 -

(11-1)A good man. Must be able to clean, cook, sew, climb towers, string antennas, bury radials, and run a dupe sheet. Must have own rig and tower. Send picture of rig and tower. Call Ellen-N6UWJ.

- 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.

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

NEW: Richard West-W6IUG-3yr; James Riseley-W6LEX-2yr; Robert Hoover-K6GHZF; Chad Langhans-N6ZPU; Matthew Norman-KC6NPM; Earl Graham-KC6KPB; Steve Fillipo-KC6MTX; Tammie Filippa-N6XXT; Erwin Bernhard-K6ZDO;

Wayne Wilms-W6RWV; Gene Monthei-KC6HPY.

RENEW: Don-AA6WS-3yr; Fred-K6GNRL-2yr; Steve-AA6VO-2yr; Terry-K3PXX; Ed-NGGZI; Duane-AA6EE to 9104.

NEW ASSOCIATE: Ted Storke Oceanside-2yr; James Pratt-Oceanside.

CHANGED: Larry-KC6OBA => KC6PEN; Philip-Assoc. => KC6OEI; Mike-Assoc. => KC6MPI.

If ur adr label is PRC9011 (yr/mo), THIS IS UR LAST ISSUE! LX9503 means your amateur license expires March of 1995. If you don't have an LXyymm, 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.

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.

#4-NOVEMBER: 9 applicants, 16 elements, & examinees passed 10 elements = 63% el pass rate. Three went to Novice, two from Novice to Tech, and one Tech to General.

Since August: 37 app, 65 el, 42 el passed = 65% el pass rate.

EXAM TEAM OCT: John-WR7W, Lloyd-W6TFB, Sam-W6YYV, David-AA6KY, Duane-W66R (code), Bob-KE6VX (R&P), and Rusty-AA6OM.

FCC CALL SIGNS (10-1-90): AA6YE-KK6QF-N6ZZZ-KC6000.

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



AA6TR

THIS COULD BE YOUR AD FOR ONLY FIVE DOLLARS

Call Jo, KB6NMK at 741-2560

G E N E R A L N E W S

PHONE SWEEPSTAKES: Dennis-N6KI brought out the whip and got a group together for the ARRL Voice Sweepstakes. They had a good time operating from his QTH as W6WJG. All participants will receive one activity ticket for this event.

Those operating were: Dennis-N6KI, W66KYG, Paul-KZ6X, Brian-KF6BL, Ellen-N6UWJ, Terri-N6UZH, Phil-KC6OEI, Karl-N6WLX, Steve-N6RUV and Larry-WQ6V. Supporting were Bud-KG6VX, John-W6BIQS, Orlando-N6QVW, and Stan-W9FQJ. They worked 867 stations, 77 sections (all of them), and made 133,518 points.

- BK -

Possibly some of the old timers can remember when W6WJG was first assigned to PARC. Our records indicate that the repeater was using W66AII in 1973 and W6WJG in 1974. A 1940 QSL card in the club's vault using the call W6WJG and the familiar phonetics of "NOTHING WORKS

GOOD", shows Melvin Bacon, 815 Topeka St, Oceanside, "where there's miles and miles of pretty white sand," holding the call.

QUESTION OF THE MONTH FOR THE OT's: When did Mel pick up W6NMG?. Was this the first time it was issued and when did PARC pick up W6NMG?

- BK -

FIELD DAY: PARC PLACED 2ND IN THE USA 5A CLASSIFICATION WITH 12,308 points, AND FIRST IN CALIFORNIA! Congratulations to all who participated in a tremendous effort. For those who like to compare where we would have placed (***) in other categories:

QST =>	1st	2nd	3rd	***
3A	11,788	11,306	10,680	1st
4A	14,688	14,562	11,266	3rd

5A	13,342	12,308	10,410	2nd
----	--------	--------	--------	-----

6A	12,068	11,492	9,146	1st
----	--------	--------	-------	-----

7A	13,894	12,348	7,446	3rd
----	--------	--------	-------	-----

8A	13,438	10,456	5,672	2nd
----	--------	--------	-------	-----

9A	13,280	4,628	2,704	2nd
----	--------	-------	-------	-----

*** It is really hard to say that

we would have been 1st in 3A since we would have had to throw out everything except 20M SSB, 15M SSB, and Fast CW. We could have easily gone 6A by operating VHF/UHF and 80M SSB at the same time giving us 1st place with little extra effort. It looks as if 4A is a rough place to be with the two stations above 14,000 points probably being real contenders with most of their points being on CW because of the X2 multiplier.

We scored 92 contacts less than the 1st place winner in 5A (Huntsville ARC-K4BFT). Last year we had 2,901 contacts and this year 4,178 allowing us to move from 3rd place to 2nd: a tremendous improvement! Wait until net year!

- BK -

Dan-W6GHYB passed along a letter he received from Eric in the Persian Gulf. "... propagation bad to the States ... Midway is taking our place ... now we are steaming for home ... next 50 days to get there ... still on the frequencies mentioned before ... we will be home

by Christmas (Dec. 20th) ... can hit 146.73 from 140 miles out to sea ... this is last free letter ... the INDY now on station and has ham radio as do some of the ground troopers in the desert ... they are on 28.333, 28.385, or 28.475 ... well, thats about it ... good luck ... 73, Eric (USS Independence, KB6EPO/MM, xPersian Gulf to S.D.)".

- BK -

Eleanore-N6QJE got all "broken up" taking a bath this past month. Solution: don't take a bath unless you are properly supervised or take your HT with you!

- BK -

Three S.D. Computer retailers have been fined \$2,000 each by the FCC for offering uncertified computers for sale. The stores were Byte & Floppy Computers, Datel Systems, Inc., and CCC Computers. Check for certification label affixed on the computer's central processing unit. If missing, probably the computer is being unlawfully offered for sale.





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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

I have noticed that the 8pm traffic net controls are skipping some of the verbage which has been traditional for these nets. I would hope that you would ALWAYS read the part about the other NETS which are on the repeater. All the 9pm nets and ARES nets publicize the traffic

nets. Making reference to PARC's address availability is probably ok but you might consider reading EVERYTHING when you have no traffic. (W9FQN)

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



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PARC ENLISTMENT APPLICATION

Mail form with \$\$ to PARC, P. O. Box 1603, Vista, CA 92085-0530 or hand to Jo-KB6NPK, 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 dotted line.

Call _____ Name _____
 License _____ Home _____
 Expires _____ Address _____
 License _____ 1st 5 _____ +4 _____
 Class _____ City _____ State _____ Zip _____
 Home Phone _____ Work Phone _____
 Old Call _____ Phone# _____ Confidential yes-no Work _____ Confidential Y-N _____
 (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: _____

..... dotted line

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SPOT LIGHT ON: ** CHRISTMAS PROGRAM **
 Field Day Results and Election

