



W6NWG
Scope

VOL. XX, NO., 1

1936 - 1985

JANUARY, 1985

PRESIDENT: Stan Rohrer, W9FQN, Valley Center
VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista
SECRETARY: Phil Leonelli, KB6DQR, Oceanside
TREASURER: John Tentor, W6OLQ, San Diego

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first member and \$9.50 for each subsequent family member at the same address. Annual SCOPE subscriptions are \$2.50. Membership matters, changes of address, subscription matters: PARC, P.O. Box 1603, Vista, CA 92083-0530.

SCOPE MATERIAL: The deadline for material for SCOPE is the Wednesday two weeks before the club meeting. Mail to Ralph Crossman, K6HAV, P.O. Box 73, Vista, CA 92083.

CLUB MEETINGS take place on the first Wednesday of the month at 7:30 p.m. in the Community Room of Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista. Visitors welcome.

OFFICIAL CLUB BADGES are available from the club Treasurer. Unfortunately, he does require money and also feels it only fitting that you provide him with your name and call sign if you want them on your very own badge (like the big guys have).

TWO REPEATERS, both 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 the other is 444.425 MHz and the output is 449.425. The 450 MHz machine is often on tone squelch (PL 3A). They are both located on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users.

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 MHz -600 kHz at 2000 local to handle formal written traffic. Visitors are welcome. Net control stations and liaison stations are needed. If you can help, contact Joe, WB6HMY.

THE PREZ SEZ

When President Bob Clark died in 1982, a new ham by the name of Ed Ross was serving as his Vice President. Ed had big shoes to fill, and as the past year and a half has shown, he was able to fill those shoes and grow in them. Ed had no prior experience with radio clubs and so everything was new to him.

Ed has attacked all problems with a "can do" attitude, and his many accomplishments show what hard work and a sincere dedication to a job can produce. He improved the committee system and created an atmosphere in which the Club was able to increase membership attendance at club meetings, put up a 70' tower at the repeater site, obtained a 3.5 kw generator, and scored very well in two Field Day contests. Ed always treats one as a person first and as an amateur radio club member second. He took every opportunity to try to heal some of the past wounds the Club has suffered over the years. Our club has gone through some "growing pains" with the increase of dues several years ago and the purchase of the repeater site property. Ed has helped ease our "growing pains" with his understanding and dedication.

N6GZI, the Palomar Amateur Radio thanks you for a job well done - above and beyond the call of duty. We hope this new year will be a happy one for you and your family.

de W9FQN

JANUARY CLUB MEETING

THE PROGRAM FOR THE EVENING WILL BE presented by Mike Brock, WB6HHV, who will talk to us about, and possibly demonstrate, Packet Radio. Most of us know little or nothing of the subject, but would like to. This is your chance. Let's hear what Mike has to say.

SHOW AND TELL. Nothing scheduled. Bring in the goodies which you got for Xmas and let us have a look. Ham-related goodies, that is.

SILENT AUCTION: None in January.
Great coffee and N6INN's bringing the goodies.

DECEMBER CLUB MEETING

At the December club meeting, committee reports, minutes and treasurer's reports were heard and approved. Election of officers was held. The Club's officers for 1985 are: Stan Rohrer, W9FQN, President; Larry de Montegre, KB6DNR, Vice President; Phil Leonelli, KB6DQR, Secretary; and John Tentor, W6OLQ, TREASURER. N6GZI handed out Xmas cards and gave Stan, W9FQN, the gavel, which Ed had bought. He also gave us a parting shot, emphasizing healing old wounds and vice versa.

Paul, KZ6X, gave us an in-depth look at Dr. DX. Paul, WA6EJL, demonstrated the DX Edge, a DX operating aid. Larry, KB6DNR, showed us some excellent large diameter heat-shrink tubing used in the cable tv business.

Coffee by Matt, KA6QFF, and tasties by everyone. Lots of new faces and an excellent turnout. A very enjoyable social evening (even though we didn't win any prizes). Deal the #@%*+~# cards.

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at Carrow's Restaurant at the corner of South Santa Fe and Santa Fe Place in Vista. Without fail, the meeting usually starts at 7:30 p.m. Club members are welcome.

AT THE DECEMBER MEETING:

Stan, W9FQN, conducted his first Executive Committee meeting, and told the Committee that the new tower had its final inspection by the County and passed. John, WB6IQS, furnished the Club with a copy of the approved inspection sheet. W9FQN also announced that the composition of all committees, appointed by Ed, N6GZI, would remain in effect. A source for the fencing needed around the tower was discussed.

REPEATER - TOWER

In late November, Stan, W9FQN; Larry, KB6DNR; Ed, N6GZI; and John, WB6IQS; spent a long day on the mountain top taking down the old antenna mast and getting the 2m repeater attached to an antenna at about the same height as the old one on the new tower. Time ran out so they were unable to mount the 2m and 450 MHz antennas at the top of the tower. The 450 repeater was brought down from the mountain to try and find the audio problem that has become apparent in it.

On December 3, W9FQN and K6HAV went to the mountain to prepare the 450 and 2m antennas for mounting. On December 4, W9FQN and N6GZI went to Mount Palomar to mount the two antennas but were unable to do so due to wind and weather. The 2m machine is now operating on new heliax and a temporary antenna about 30' up on the tower. When weather and time permit, it will be connected to an antenna at the 55' or 60' level (the top of the 450 MHz and 2m antennas will be at about 70'). Some improvement in the 2m signal may be apparent now due to the new heliax and connectors donated by Vern, W6HW.

Thanks to Lloyd, W6TFB, for his measurement of the repeater's sigs. It will be most helpful to see if there's any improvement after the antennas go to the top of the tower.

Thanks to Ivan, W6TET/WB6OIX for the \$20 donation to the Repeater-Tower Fund. Thanks also to Vern, W6HW, for the additional Andrew connectors for the Heliax he donated earlier.

In connection with the tower, Stan, W9FQN, says that we need an old car horn and/or car headlight to be used for security purposes at the site. Call him on W6NWG/R or at 749-0276. Do it before ZUM gets you!

1984 ARRL FIELD DAY RESULTS

The Palomar Amateur Radio Club took part in the 1984 ARRL Field Day Contest and, according to the December QST, finished 17th nationally in Class 4A, third in the state and first in the San Diego Section. Nine of the 16 stations that finished ahead of us nationally had FEWER contacts. They obviously had a higher ratio of CW contacts (which count twice as much as phone contacts) to phone contacts. If we want to improve, we'd better plan on more CW operation in 1985!

FORESAIL

(If you think that's a jib, you're not mizzen the point!)

Motorola 120W 136-150.8 MHz base station in rack cabinet. All solid state except for tripler, driver, and final. Has GLB frequency synthesizer for tx/rx frequency control. W/spare tubes and all documentation. An excellent repeater or base station. Call Phil, K6ROR, and make an offer.

It's Club-owned equipment so call 724-0098. If the Gint Computer answers, don't hang up - you may do better talking to it.

From estate of the late W6HUI: Swan 1200Z desk-top linear amp, \$250; Heath SB-100 hf xcvr w/ac supply, \$100; Heath VF-2031 2m ht & charger w/xtals for .13-.73, .13 rx, .52 simplex, 7.645, .37-.97, .94 simplex, \$50; Heath hf swr/wattmeter HM-102, \$25; Li'l Bugger keyer, \$15; Micronta VOM 22-203U, \$10; Heath Antenna \$20. Call Jim, WD6ENK, at 726-7204.

Tempo S-5 2m FM HT w/HM-5 mike, battery charger, and leather case, \$175. Call Don, W6FQV, at 728-1734.

Kenwood TS-820-S hf xcvr w/pwr supply and cw filter. Low mileage, used only one hour and never raced. Will negotiate. Call Ron McDaniels, WA6CFY, at 271-9940.

Robot SSTV monitor Model 70, \$100; Elenco digital multimeter M-1200, \$25; Heathkit digital multimeter model 1212, \$25. Call Bill, N6COU, 758-7163.

Tristao CTL-300 series 54' guyed, crank up tower with base plate and accessories. Tower is down and ready for you to move. A steal at \$200. Call BJ, WB6VYC, or Burr, WA6VYD, at 757-6070.

HyGain 18AVT 10-80M vertical antenna, \$65. Call Phil, KB6DQR, at 757-7008.

Heath SB-401 xmtr, Heath SB-303 solid state rx, matching spkr, Shure 444 mike, \$300. Call Steve, KQ6U, at 560-9907. Heath Keyer HD1410 mint w/manual. Never driven over 10 wpm, \$25. Ham Key HK1 dual paddle in super mint condx, \$10 or will swap for both items. Whadayagot? Call Dan, WA6HYB, at 433-4445.

Tempo S1 2M FM HT, \$150; Scanvision SSTV monitor and camera, \$150; 2M Ranger antenna, \$10. Call Bryan Selle at 726-6020.

Kenwood TS-520SE 7-band HF xcvr w/MC-50 mike, Heath HM-15 SWR bridge, \$425. 10-40M Mini-Quad w/30' mast, guys, coax, and rotor. Call Charlie, WB6DUS, at 757-0780.

Yaesu FRG 7000 general coverage rx, Radio West modified w/1.9 Collins SSB filter with switch and 4K ceramic AM filter, in mint condx, \$275. Yaesu FT208R w/PL, NC-8 pwr supply, quick charger, and YM-24A speaker-mike, mint condx, \$250. Write Tom Healy, N6DSX, 416 Bonair St., La Jolla, CA 92037.

Epson MX-80 printer w/RS 232C interface and Grafrax built in, new condx. Cost \$675, sell \$345 or offer. Call Stan, K7BHI, at 728-2668.

Drake 2B HF rx. Call Bill, K6GJD, at 726-2029.

MFJ Model 721 SSB/CW active filter, \$35. Call Dennis, N6KI, at 271-6079.

Yaesu FTC 2025; 2 Clegg FM-27B 2m fm xcvs; Triplett vtm; Realistic phone answering machine; Heath phone patch; 2 Heath swr/wattmeters; Yaesu FT207R 2m ht w/3 batterypacks, dc pack and charger; 2m 35w amp for hts; ICom IC-2AT 2m ht w/3 btry paks, dc pak and charger; Hot Rod 5/8 wave 2m ant; Yaesu FT202R 2m xtal contl ht and ac charger; Hallicrafter SX-111 rx; Heath GDO w/all coils; WM-1 swr/pwr meter. Call Bill, KA0RGQ, at 941-0867.

Selling 8.5 acre ham location near Summit and San Pasqual Valley Rds. If I don't sell the farm to a ham, I have for sale a KLM KT-34X 3-band 6-elm beam; a Heights 49' tilt-over free-standing tower; Ham M rotor and 100+ feet of RG-8U coax and contl cable. Cost over \$1,500 new, now three years old. Make offer. Call Ewing, K6AHL, at 741-3495.

WANTED

(Chloe!)

AEA CP-1 and software for Vic-20. Call Larry, KB6DNR, at 726-0353.

INFORMATION on the PARMAC (Parker McCrory) radio company, which started building battery radios around 1923. In the late '30s they built 6v farm radios and sold a line of windchargers (6v) and batteries. Need info on what they were doing between 1924-25 and 1936. Write Floyd, W6THU, at 1545 Raymond, Glendale, CA 91201.

40M mobile rig. Call George, K6RTD, at 727-2374.

Schematic for Regency 16-channel programmable scanner ACT-T-16K. Call Earl, K6CLU, at 724-2827.

Mint condx 600 ohm head set. Call Dan, WA6HYB, at 433-4445.

Lightweight two or three element tri-band beam. 160M linear amplifier. ICom IC-22A in working condx and/or other xtal controlled solid state rig. Drake FS-4 frequency synthesizer. Manual/schematic for Atronics code reader (early model). Call Dennis, N6KI, at 271-6079.

DOWN THE TOOBE

Harry, WB6JVS; Bob, KS6S; Bob, WA6KZN; and Marty, K6NS, conducted a public service demonstration for the Burroughs Corp. ARC on December 4, showing operation on repeaters, on hf, and on rtty.

Paul, KZ6X, operating with two others managed to work all 74 sections during the Sweepstakes contest.

The Wallaces, Carl and Leona, send word from Pitcairn Island where they have been operating and enjoying the hospitality of the descendants of the

HMS Bounty's mutineers. They operated from the house of Tom Christian.

SANDARC (San Diego Amateur Radio Council) is already well into the planning for the 1986 ARRL National Convention to be held in San Diego at the Town and Country Convention Center September 5-7. If you can help, call Lon Albright, W6SLF, at 278-4284.

Congratulations to Gene Good, KB6GYG, who has just recently up-graded to Technician. Gene's on the air and having a ball.

Congratulations also to Phil, KB6DQR, who is now sporting a 20 wpm code certificate.

Bill Buckner, KB6HCH, is also deserving of congrats on his new call.

The Volunteer Examiner Program in north county is going along in good shape, having now conducted four sessions over a four-month period.

It's pleasing to hear our commuters on W6NWG/R backing away from the lengthy ragchew-type of contact during "prime time" - the peak commuting hours. The short contact and/or the use of a simplex frequency really makes the repeater available to the maximum number of club members. It's especially important during these winter months. Thanks, folks.

The North County Traffic Net desperately needs additional stations to act as liaison to and from the Southern California VHF Net (SCNV) on the Laguna Beach repeater (147.645 MHz -600) at 2100 local each evening. Liaison stations take traffic from the NCTN to SCNV and vice versa. If you can help, please contact Joe, WB6HMY, at 722-6054 or on W6NWG/R.

We're off and running into a new year and with a new slate of club officers to see us through that year. If we care about our club, we will all support those officers in their operation of the Club, and wherever and whenever possible take as active a part in club activities as our situations permit. Let's all bear a hand. Stan and his officers need your support.

It was good to see so many folks at our December meeting, and they all brought those wonderful no-cal goodies. It was especially good to see Marty, W9GNI, who managed to take time away from his job as 1st Marine Division Chaplain at Camp Pendleton. We also were very happy to see those folks who drove up from the San Diego area. I know that it's a long trip, but it was sure nice to see you.

"That's all", she wrote.

NORTH COUNTY AMATEUR LICENSE EXAMINATIONS are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination at any of the San Diego County locations must send a completed, signed, NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92014 ten days prior to the testing date. New 610s may be obtained from the FCC. Applicants must bring their original license and code certificate (if any) with them on the day of the exam.

ELECTRONICALLY ORIENTED FLEA MARTS ARE:

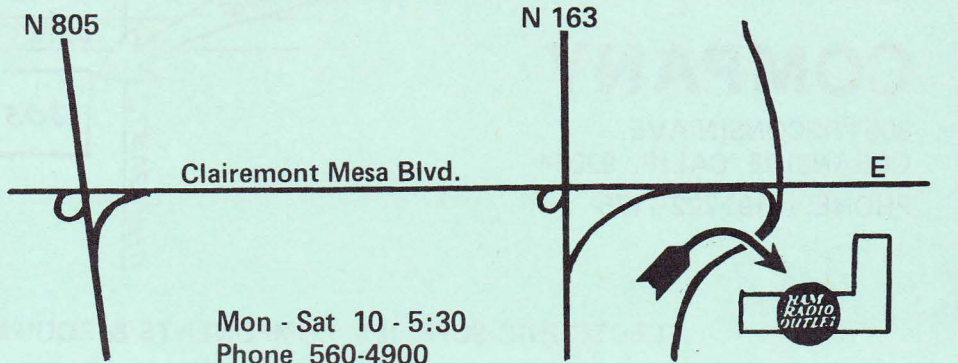
Ham radio-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd in Manhattan Beach on the last Saturday of the month (except in June when it's on the preceeding Saturday due to Field Day) from 0800 to 1100. Talk-in is on 145.320 MHz simplex.

The ORANGE COUNTY ham-computer-electronics swap meet takes place starting at 0700 on the 2nd Saturday of the month at Orange Coast College across from the fairgrounds in Costa Mesa. \$5 for sellers, free for buyers. Talk-in on 147.090 +600.

SURPLUS GOODIES at HIGHWAY COMPANY, 305 W. Wisconsin Ave., Oceanside. See ad in this issue. Aluminum, brass, copper stock at Escondido Sales yard, 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, NiCads at Industrial Liquidators, 4887 Convoy St., San Diego.

IF YOU CAN'T SELL IT, or don't want to drive to TRW, the Club will be happy to take your surplus and sell it to enrich the Club's coffers. Contact any Club officer or Stan, W9FQN to make arrangements to unload your excess KWM-380 or IC-751.



Mon - Sat 10 - 5:30
Phone 560-4900

5375
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from the gang at HRO —

Glenn K6NA
Tom KM6K
Brent KF6VS
Gary K6CAQ

— and sincere thanks to the Palomar Amateur
Radio Club members for your past and future
support.

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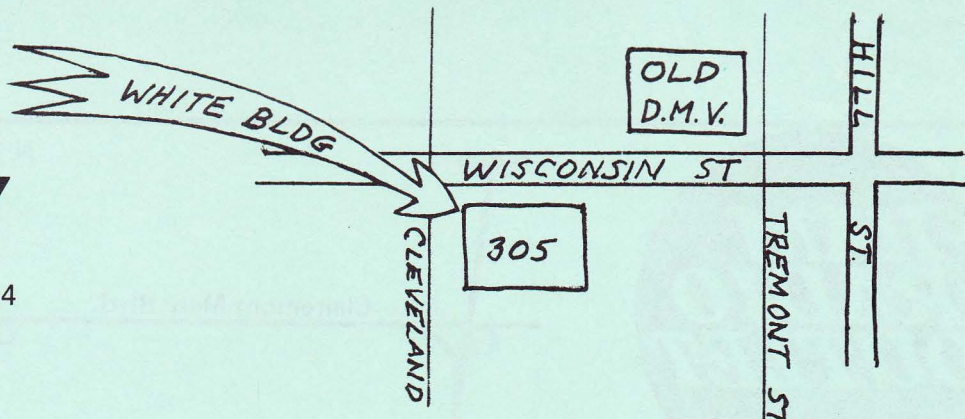
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/85



W6NWG

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THE REPEATER CONTROL OPERATORS ARE: KB6AI, K6HAV, WB6IQS, WA6KZN, K6ROR.

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---PRESIDENT'S MESSAGE---

It takes all types of people to make the Palomar Amateur Radio Club work, and we certainly do appreciate all of you who have contributed to the operation of the Club with your time, money and expertise. Some have high visibility jobs such as K6HAV with the SCOPE, and WB6HMY with the traffic nets and the rain reports. We thank them for their dedicated efforts in these fields.

Jim Church, K6SLA, has, faithfully over the years, taken care of our mail and its distribution; and has kept us on the "straight and narrow" when it comes to the mailing of SCOPE each month. Jim also served longer than any club officer (12 years or so as Treasurer). There's also the dedicated bunch who each month get together at K6ROR'S to fold, spindle and mutilate the SCOPE: Marty, K6NS; Phil, K6ROR; Joe, WB6HMY; Stan, W9FQN; Lloyd, W6TFB; Bob, WA6KZN; and K6HAV.

Matt KA6QFF, who after years of taking care of the refreshment table at out meetings, has decided to step down and give someone else a chance. He also took care of picking up the key to the building, and opened it for the meetings, and set up the chairs. The Club thanks you, Matt for all of that, and for the tons of good coffee.

We hope that everyone of you will feel free to help the Club in some small way this coming year: attendance at meetings with guests, work crews on Palomar, Field Day, monitoring the repeaters, serving on committees, helping K6NS with the VE Program, donations, etc. The PALOMAR AMATEUR RADIO CLUB is here to serve amateurs in our area and to provide emergency communications and to serve our communities as needed.

73 de Stan, W9FQN

FEBRUARY CLUB MEETING

THE PROGRAM FOR THE EVENING WILL BE presented by Fred Brown, W6HPH, who has had many articles published in QST. He will talk to us about antennas in a "no antenna" environment.

SILENT AUCTION: will be back again with many of the high grade items you have learned to expect (suspect?). There will also be a box of small items from which you can select at 4/\$1.

Great coffee and goodies too.

SUPPORT OUR FRIENDLY ADVERTISERS

We should take every opportunity to let our advertisers know that we appreciate what they're doing for the PARC. Let Glendale Federal know that we very much appreciate the use of their space for our club meetings, and for the Volunteer Examiner Program. When you shop at HRO and Hiway Company, tell them that you saw their ads in SCOPE. One of our staunchest supporters, who won't let us run their card is Vista Printing Service on South Santa Fe. If you need quality printing (other than the run-of-the-mill QSL cards) see Paul Heisman, KA6PPD. You haven't seen a bad SCOPE (except for the editing) since Paul started doing the printing.

Let's take every opportunity to let these folks know we're grateful.

JANUARY CLUB MEETING

At the January club meeting, we had a most interesting exposition of Packet Radio by Mike Brock, WB6HHV. Mike, who's been in the forefront of Packet in the San Diego area gave us a very informative talk and demonstration of this mode of communication, which could be one that's useful for traffic handling as well as exchanging computer information.

Committee reports were heard and approved as were the minutes and the Treasurer's report. Members were asked to listen to the repeater input (146.130 MHz) whenever jamming or suspicious repeater problems are present or suspected. If activities near 146.130 MHz are observed, announce your observation and location on the repeater or on the phone to Joe, WB6HMY, or any of the Control Operators.

Excellent coffee by Matt, KA6QFF, and tasties by Pat, N6INN. This was Matt's last time as coffee maker after serving us long and faithfully. His devotion and coffee-making skill will be missed. Thanks, Matt. You never ever made a bad cup.

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at various locations. Without fail, the meeting usually starts at 7:30 p.m. Club members are welcome to attend and observe. Inquire of any club officer for the location of the meeting. The Committee will no longer meet at Carrow's which now would charge us \$35 for the use of their restaurant. The February meeting will take place at the home of KB6DNR.

AT THE JANUARY MEETING: the Committee voted to go ahead with plans to plant trees and shrubs at the repeater site and do other landscaping. The Committee also agreed to postpone the purchase of a new repeater antenna, and to investigate the possibility of the use of home-brew or purchased beam antennas in place of the existing verticals in order to put more of our signal into San Diego County and less into the north and east. John, WB6IQS, was directed to look into it. Stan, W9FQN, announced that, due to its limited use, no pre-amplifier would be purchased for the 450 MHz repeater receiver, which is very numb, requiring 2.5 uv to open the squelch. Stan also indicated that there is a need to consolidate existing Club policies for easy reference. The annual Club picnic will be held on August 25 in the same location as in 1984. The appointment of N6GZI and KB5MU as the Club's SANDARC representatives; and W9FQN and KB6DNR as alternates was approved. The Committee expressed its thanks to Frank Tipton, WA6HPP, and Frank Ramme, WB6HFE, for their recent donations of various items to the Club. The policy regarding the use of the Club's repeaters for public service and for emergencies was discussed.

REPEATER - TOWER

It became evident over the weekend of 29-30 December that the 2m repeater was having problems intermittently in "hearing" even relatively strong signals. Weaker signals would turn the repeater on but no audio or very noisy audio would pass through the repeater. This condition got worse, with some folks even thinking they were being jammed. Early Saturday, the 5th of January, the Palomar Assault Group arrived at the repeater site and went to work. It consisted of Larry, KB6DNR; Rick, KB6DIH; Stan, W9FQN; Ed, N6GZI and his son Andrew; John, WB6IQS; and Bob, WA6QQQ. After a long, full day on the mountain (and on the tower in the cases off KB6DIH, KB6DNR, and N6GZI) the 450 MHz antenna and the other 2m antenna were mounted at the top of the tower and connected; the 450 MHz repeater was back into service;

and the 2m machine was restored to "like-new" receiver sensitivity. The desense problems had apparently come from some bad coax connections and from an internal problem with the 2m Super Stationmaster antenna. An upward shift of the receiver crystal element was also noted and corrected. On Sunday morning it became obvious that the rx xtal had again migrated upward. This time 8 kHz. Once again, John, WB6IQS; and Bob, WA6QQQ; headed for the mountain where they were distressed to find a broken capacitor in the xtal element. They successfully "gimmicked" a replacement capacitor and, with crossed fingers, left the mountain. So far, it's worked! A new receive crystal element is on order.

In using the repeater for the week following the change of antennas, many of us are seeing the improved coverage of the transmitter, which is on a higher gain and higher-above-ground antenna. Remember that the receive antenna is still at about 35-40' although with restored sensitivity, so that you may hear the repeater well but only put a marginal signal into the receiver. It will be interesting to those concerned with the repeater to hear your findings. Please let us know whether or not you can tell the difference.

Please note that while the 450 MHz repeater is back on the air on an antenna at 70 feet, from which you may receive a better signal at many locations, the receiver is particularly "numb", taking 2.5 uv to crack the squelch on it. A normally sensitive receiver should take .25 uv.

In connection with the tower, Stan, W9FQN, says that we need an old car horn and/or car headlight to be used for security purposes at the site. Call him on W6NWG/R or at 749-0276. Do it before ZUM gets you!

FORESAIL

(If you think that's a jib, you're not mizzen the point!)

Motorola 120W 136-150.8 MHz base station in rack cabinet. All solid state except for tripler, driver, and final. Has GLB frequency synthesizer for tx/rx frequency control. W/spare tubes and all documentation. An excellent repeater or base station. Call Phil, K6ROR, and make an offer. It's Club-owned equipment so call 724-0098. If the Gint Computer answers, don't hang up - you may do better talking to it.

From estate of the late W6HUJ: Heath SB-100 hf xcvr w/ac supply, \$100; Heath VF-2031 2m ht & charger w/xtals for .13-.73, .13 rx, .52 simplex, 7.645, .37-.97, .94 simplex, \$50; Heath hf swr/wattmeter HM-102, \$25; Li'l Bugger keyer, \$15; Micronta VOM 22-203U, \$10; Heath Antenna \$20. Call Jim, WD6ENK, at 726-7204.

DSI 3550 frequency counter 50 Hz to 550 MHz w/manual, \$45; Hunter 2kw swr bridge model 25 w/pwr meter (remote) model 26 directional coupler, \$40. Following all Heath: SB-101 hf xcvr w/pwr supply & manuals, \$100; HW-7 QRP xcvr w/HWA7-1 pwr supply and manuals, \$25; HD-10 keyer w/manual, \$20; V6 vtmv \$25; GDO, \$35. Call Floyd, W6JSP, at 741-8391.

Johnson Viking 275w Matchbox, \$50; Drake WH-7 hf wattmeter, \$50; Vibroplex Original w/red paddles and jewel bearings, \$50. Some unreasonable offers refused. Call Earl, K6MXM, at 743-0860.

Tempo S-5 2m FM HT w/HM-5 mike, battery charger, and leather case, \$150. Call Don, W6FQV, at 728-1734.

Robot SSTV monitor Model 70, \$100; Elenco digital multimeter M-1200, \$25; Heathkit digital multimeter model 1212, \$25. Call Bill, N6COU, 758-7163.

Kenwood TS-820S, \$475; speaker SP-230, \$50; Drake MN-4 antenna tuner, \$75; Heath hybrid phone patch, \$25; Yaesu YO-100 monitorscope, \$100; Shure 444 mike, \$30; Palomar 300A 40-10m 600w p.e.p. linear amp, \$250; Astron RS-20A pwr supply, like new, \$75; Gordon West, WB6NOA, Advance Class study guide, \$10. Call Phil, KB6DQR, at 757-7008.

Heath SB-401 xmtr, Heath SB-303 solid state rx, matching spkr, Shure 444 mike, \$300. Call Steve, KQ6U, at 560-9907. Heath Keyer HD1410 mint w/manual. Never driven over 10 wpm, \$25. Ham Key HK1 dual paddle in super mint condx, \$10 or will swap for both items. Whadayagot? Call Dan, WA6HYB, at 433-4445.

Kenwood TS-520SE 7-band HF xcvr w/MC-50 mike, Heath HM-15 SWR bridge, \$425. 10-40M Mini-Quad w/30' mast, guys, coax, and rotor. Call Charlie, WB6DUS, at 757-0780.

Yaesu FRG 7000 general coverage rx, Radio West modified w/1.9 Collins SSB filter with switch and 4K ceramic AM filter, in mint condx, \$275. Write Tom Healy, N6DSX, 416 Bonair St., La Jolla, CA 92037.

Epson MX-80 printer w/RS 232C interface and Graftrax built in, new condx. Cost \$675, sell \$345 or offer. Call Stan, K7BHI, at 728-2668.

Drake 2B HF rx. Call Bill, K6GJD, at 726-2029.

MFJ Model 721 SSB/CW active filter, \$35. Call Dennis, N6KI, at 271-6079.

Yaesu FTC 2025; 2 Clegg FM-27B 2m fm xcvs; Triplett vtmv; Realistic phone answering machine; Heath phone patch; 2 Heath swr/wattmeters; Yaesu FT207R 2m ht w/3 batterypacks, dc pack and charger; Hot Rod 5/8 wave 2m

ant; Yaesu FT202R 2m xtal contl ht and ac charger; Hallicrafter SX-111 rx; Heath GDO w/all coils; WM-1 swr/pwr meter. Call Buck, KA0RGQ, at 941-0867.

Heath SB-614 monitorscope, \$100; Yaesu FC 102 2-antenna tuner, \$200; Tempo S-1 2m ht w/every accessory, \$149; two tv antennas, used indoors and never raced, w/connectors and cables, will haggle. Call Will, W2FWV, 436-3277.

KLM KT-34X 3-band 6-elm beam; a Heights 49' tilt-over free-standing tower; Ham M rotor and 100+ feet of RG-8U coax and contl cable. Cost over \$1,500 new, now three years old. Make offer. Call Ewing, K6AHL, at 741-3495.

WANTED
(Chloe!)

INFORMATION on the PARMAC (Parker McCrory) radio company, which started building battery radios around 1923. In the late '30s they built 6v farm radios and sold a line of windchargers (6v) and batteries. Need info on what they were doing between 1924-25 and 1936. Write Floyd, W6THU, at 1545 Raymond, Glendale, CA 91201.

Schematic for Regency 16-channel programmable scanner ACT-T-16K. Call Earl, K6CLU, at 724-2827.

Lightweight two or three element tri-band beam. 160M linear amplifier. ICom IC-22A in working condx and/or other xtal controlled solid state rig. Drake FS-4 frequency synthesizer. Manual/schematic for Atronics code reader (early model). Call Dennis, N6KI, at 271-6079.

RAIN REPORTING

Many of us have slacked off on the precipitation reporting we've done over the past several years. Let's get our rain guages oiled up and recalibrated so that we can continue getting this information to the National Weather Service at Lindbergh Field. This is one of the few public service things in amateur radio which you can do without leaving home! Reports of rain should be made to Joe, WB6HMY, or Nate, K2RTQ, at 1100, and should report the rainfall for the previous 24 hours. Reports should also include the general location of the reporting station such as north Oceanside or central Escondido, etc. Unusual weather events such as cloudbursts of unusual intensity should be reported as they occur so the NWS can do a better job of issuing flash flood warnings. We have had a "good thing" going in our cooperation with the NWS, and they have appreciated it, so let's don't let it die. Do your part!

MORE NET MEMBERS NEEDED NOW THAT PACBELL IS GOING GET ZUM MORE OF OUR \$\$\$

Starting this month, it's going to cost us more to call shorter distances. That's what the info included with my last PacBell phone bill said. This means that our North County Traffic Net will need more members to effect toll-free message delivery. It would certainly be nice to get some new net members from far away places with strange sounding names. How about some of you "retired" net members reactivating yourselves? And as for some of you folks who haven't tried traffic handling, please step forward and give us a hand. Just check in as a visitor and let the NCS know that you'd like to be assigned to that net.

VOLUNTEER EXAMINER PROGRAM GOING FULL BLAST

At the first exam session of the new year, Marty, K6NS, and his crew, consisting of KF6BL, K6HAV, N6INN, KB5MU, WB6R, and W6YYV, conducted FCC licensing examinations for a record number of 14 folks, some from as far away as Yuma and Long Beach. It was a very good session with two new Extras, three new Advanced Classes, four new Generals, and one new Technician. There were also two folks who received code certificates, one for 20 wpm and the other for 13 wpm.

It was a very busy day, and one in which more Extra Class examiners would have been welcome. If you're an Extra and would like to help, please give Martin Cornell, K6NS, a call at 758-0782 or on W6NWG. Marty will help you to qualify as a Volunteer Examiner. This is one public service event which YOU can help with and, at the same time, insure the entrance into our ranks of good, qualified operators.

FROM THE ARRL LETTER

In a November 17 letter to Chairman Mark Fowler of the FCC, Senator Barry Goldwater, K7UGA, asked the Commission to "keep hands off 220". He said "More and more, I am getting word that the Commission might be considering a rulemaking aimed at reducing the 220 MHz allocation used by amateurs on a shared basis with the government."

Callsigns issued as of January 1: WD6Z, KG6NT, N6LJT, KB6HKW.

The deadline for filing comments in Docket 84-874, (the proposal to allocate 1900-2000 kHz to the nongovernment radiolocation service), is

January 24, 1985. See Happenings, November QST for details of the NPRM. Send a copy of your filing to ARRL Headquarters.

On January 3, Senator Goldwater introduced two resolutions. One of them (S. Res. 36), if adopted, will declare the sense of the U.S. Senate that the FCC should affirm that state and local regulations must not unreasonably restrict communications from Amateur Radio stations. The other pertains to the rights of citizens to erect and maintain TV receive-only satellite dishes. The Amateur Radio Resolution will send a clear message to the FCC that favorable action on PRB-1 (the League's request for federal preemption of restrictive local antenna ordinances) would meet with the approval of the U.S. Senate. YOUR SUPPORT, AND THE SUPPORT OF YOUR SENATOR, IS NEEDED TO ENSURE IT IS ADOPTED. Please write! Senator Alan Cranston, 5757 W Century Blvd., Suite 515, Los Angeles 90045; Senator Pete Wilson, 880 Front St., Room 6-S-9, San Diego 92188. Write 'em both!

AMATEUR LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination at any of the San Diego County locations must send a completed, signed, NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92014 ten days prior to the testing date. New 610s may be obtained from the FCC. Applicants must bring their original license and code certificate (if any) with them on the day of the exam.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: Ham radio-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd in Manhattan Beach on the last Saturday of the month (except in June when it's on the preceding Saturday due to Field Day) from 0800 to 1100. Talk-in is on 145.320 MHz simplex.

SURPLUS GOODIES at HIGHWAY COMPANY, 305 W. Wisconsin Ave., Oceanside. See ad in this issue. Aluminum, brass, copper stock at Escondido Sales yard, 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, NiCads at Industrial Liquidators, 4887 Convoy St., San Diego.

IF YOU CAN'T SELL IT, or don't want to drive to TRW, the Club will be happy to take your surplus and sell it to enrich the Club's coffers. Contact any Club officer or Stan, W9FQN to make arrangements to unload your excess KWM-380 or IC-751.

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in February: W6HC, W6THU, K6BOM, and W9GNI. In March: N6COU. In April, none on our list. If you want a reminder as to the expiration date of your amateur license, get it to us and we'll see that it is fed into the maw of the Gi'nt Computer.

DOWN THE TOOBE

Congratulations to Ted Mitchell's XYL, Cynthia, who has received her Novice call sign, KB6HGR.

We apologize for assigning Mary Buckner's call sign, KB6HCH, to her OM, Bill, KA0RGQ.

We're mightily pleased to see the return to the club roster of two call signs which have been missing for some time: KE6HI, Alma Bourhenne, and WA6DYV, Jack Swader. Welcome back.

Congratulations are also in order for Phil, KB6DQR, and Paul, N6KWC, for their new Advanced Class licenses which will soon be forthcoming. Larry, KB6DNR, couldn't stand all of this and went right out and earned a 20 wpm FCC code certificate.

Stan, WA6ZKD, and Emily, WA6ZKC, were heard operating maritime mobile from a cruise ship, which took them from San Diego to Catalina Island to Ensenada and back to San Diego. We all heard them vow to forego food for their rest of their natural lives to make up for the six meals a day. But they had to get their money's worth. Didn't they?

Pat, N6INN, now has a Collins 30L-1 she can put on-line when the going gets too tough for barefeet. She now also has a full-size 80m inverted vee up which has greatly increased her sigs over those she radiated with the shortened, loaded inverted vee she was using.

Paul, WD6BRX, is sporting a new ICom IC-47A 450 MHz xcvr. Those extra watts sure do a better job than the HT, don't they, Paul?

Gene, KB6GYG, is off the air due to the lack of a rig. If anyone has a

spare 2M rig and power supply they can loan Gene, call him at 941-3459.

Bob, WA6KZN, and XYL, Joanne, couldn't stand the hustle and bustle of city life and took some time off to go Mammoth hunting. Found it too, right where they left it. The trip must have inspired Bob, who found time to get a radio in the car before they left! Now he's mobile.

Wonder if Marty, W9GNI, ever did buy that computer he was looking at just before Christmas?

Thanks to Lloyd, W6TFB, and all of the others who have gone to the trouble of comparing the signal from our repeaters, now that they are on higher antennas, to the signal put out from the lower antennae. Lloyd even went to the trouble of building an attenuator to accurately measure the normally full scale signal.

Remember, if you have an ad or copy for the SCOPE, send it to P.O. Box 73, Vista, 92083, not the other P.O. Box. Subscription, membership, and other club matters go to P.O. Box 1603, Vista 92083-0530.

George, K6RTD, has decided to put an HF rig in his car. George and Dennis, N6KI, have been heard working on the project.

Marty, K6NS, has decided to put one of those neat stainless steel 2m J-Poles on his car. Glad you're using that quick disconnect mount so you can stow it in the trunk. Too inviting and too well made otherwise.

One of our newer ham club members learned a lesson many of us learned long ago. The Clegg 27B is capable of "all-channel" operation - simultaneously. It's a fine rig, when properly tuned, but sure can get out on more than one frequency at the same time when not up to snuff. Felix, N6IE, and Jack, W6QP, can tell some stories about their experiences back in 1973, about the time we put the first W6NWG/R on the air on Mount Palomar.

Check it before you install it! One of us learned it again - the hard way with rotor cable installed in the ceiling. There is a short somewhere in that interior cable, according to the blown fuse. Sure would have been easier to find it BEFORE we hooked both ends up to their respective terminals! Waytago!

"That's all", she wrote.



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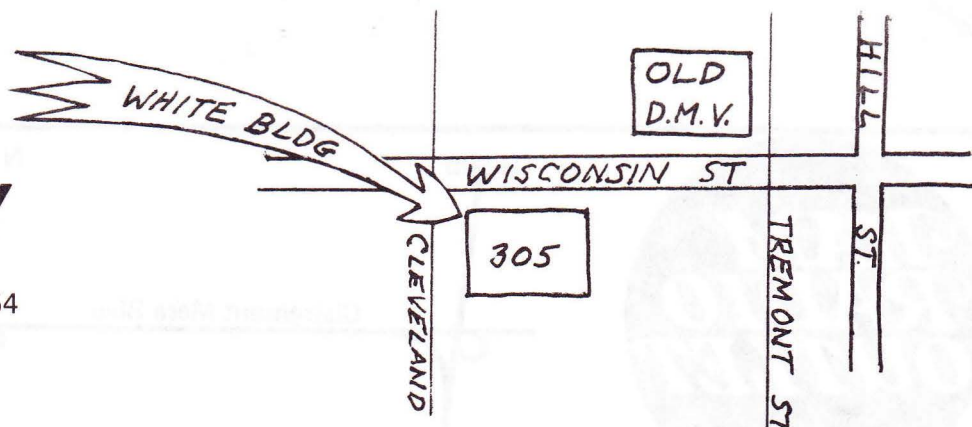
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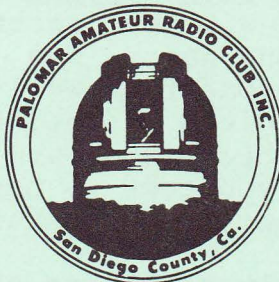
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NORTHERN SAN DIEGO COUNTY

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Scope



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MARCH 1985

PRESIDENT: Stan Rohrer, W9FQN, Valley Center
VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista
SECRETARY: Phil Leonelli, KB6DQR, Oceanside
TREASURER: John Tentor, W6OLQ, San Diego

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first member and \$9.50 for each subsequent family member at the same address. Annual SCOPE subscriptions are \$2.50. Membership matters, changes of address, subscription matters: PARC, P.O. Box 1603, Vista, CA 92083-0530.

SCOPE MATERIAL: News items and ads to Ralph Crossman, K6HAV, P.O. Box 73, Vista, CA 92083 by Wednesday two weeks before the club meeting.

CLUB MEETINGS: on the first Wednesday of the month at 7:30 p.m. in the Community Room of Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista. Visitors welcome.

OFFICIAL CLUB BADGES: available from the club Treasurer - for a price!

TWO REPEATERS, both 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 the other is 444.425 MHz and the output is 449.425. The 450 MHz machine is often on tone squelch (PL 3A). They are both located on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Control operators: KB6AI, KB6DNR, W9FQN, K6HAV, WB6IQS, WA6KZN, K6ROR.

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 MHz -600 kHz at 2000 local to handle formal written traffic. Visitors are welcome. Net control stations and liaison stations are needed. If you can help, contact Joe, WB6HMY.

---PRESIDENT'S MESSAGE---

The Club's Executive Committee meets the 2nd Thursday following the club meeting and is composed of the Club's officers, Stan, W9FQN; Larry, KB6DNR; Phil, KB6DQR; and John W6OLQ; plus the chairmen of any of the Club's committees. Serving you this year will be Pat, N6INN, Constitution; Phil, K6ROR, Giant Computer; Paul, N6KWC, Education/Training; Ralph, K6HAV, Emergency Communications and Field Day; Jim, K6SLA, Equipment; Bob, WA6KZN, History; Felix, N6IE, Interference; Barbara, KA6FPS, Membership; Ralph, K6HAV, Newsletter; Billy, WB6TBQ, Nominations; Emily WA6ZKC, Picnic; Phil KB6DQR, Publicity; Duane, WB6R??, Prizes; Vina de Montegre, Refreshments; Stan, W9FQN, Repeater Site; Ed, N6GZI, and Paul, KB5MU, SANDARC Representatives; KB6DNR and W9FQN alternate SANDARC Reps; John, WB6IQS, Repeater Engineer; Marty, K6NS, Volunteer Examiners Program FCC license testing; and Joe, WB6HMY, Traffic Nets.

Almost all club business is transacted at Executive Committee meetings and only those items of greater importance are brought before the club membership for your approval. This policy was utilized by Ed, N6GZI, and we hope to continue it this year so that our club meeting nights are free for socializing and programs. If you feel that anything should be brought before the Executive Committee, please contact a club officer with your suggestions and concerns. You are also most welcome to attend an Executive Committee meeting and bring your ideas to us directly.

Since this policy has been utilized, club attendance at meetings has jumped from an average low of 41 to an average of 57 for last year and we have been able to close our meetings near the 9:00 p.m. mark. Some of our membership must drive long distances and we feel that we need to dismiss our meetings as early as possible to get home at a respectable hour. We hope that this meets with your approval.

73 de Stan, W9FQN

MARCH CLUB MEETING

THE PROGRAM FOR THE EVENING will be presented by Jack Althouse, K6NY, owner and proprietor of Palomar Engineers, who will tell us about, and demonstrate, some of his new equipment as well as some of the more popular oldies but goodies. Jack always gives us an interesting program.

SILENT AUCTION: 75 ohm coax, which is great for feeding dipoles (better measure out your needs before you come to the meeting), assorted antique microphones, low voltage power supplies, and the usual high grade THINGS we are noted for.

SHOW AND TELL: If you have built something or recently bought something new, bring it in and tell us about it. This month we will have a demonstration of a ribbon re-inker and a punch to convert single-sided disks into double-sided ones, plus whatever the membership brings along.

Great coffee and goodies too, thanks to Vina de Montegre and the rest of you wonderful low-cal bakers.

LET'S THANK OUR FRIENDLY ADVERTISERS AND SUPPORTERS

We should take every opportunity to let our advertisers and supporters know we appreciate what they're doing for the PARC. We should let Glendale Federal know that we very much appreciate the use of their space for our meetings, and for the Volunteer Examiner Program. Let's let these folks know we're grateful.

FEBRUARY CLUB MEETING

Fred Brown, W6HPH, gave a most informative illustrated talk on antennas in a "no antenna" environment. Bob, KA6HZF, showed us a neat home-brew two-tone generator for ssb tune-up and a single tube transmitter. John, WB6IQS, told us that the 2m repeater is operating on two antennae, the transmitter being on an antenna at 70' and the receive antenna being at about 40'. Ralph, K6HAV, asked club members to mail the Postmaster, San Diego a standard Postal Service praise/complaint form (no stamp required) complaining about the late delivery of the Scope for February. The Scope, which was mailed on January 30 in Vista as pre-sorted 2nd Class mail, had not been received in cities in the county, other than Vista, six days later. Barbara, KA6FPS, told of her efforts in sending out membership packages. Bob, WA6KZN, said that Doc, K6RY, was at home in deteriorating health. Cards would be appreciated by Doc. Judy, KA6YJH, said that Mickey, N6GWJ, had been operated on for a back problem. Ed, N6GZI, showed us a small computer for in-putting his time to the Gint AT&T computer in the sky. Paul, KB5MU, told us that SANDARC still has available funds, and would like recommendations on expending them. SANDARC VEC has a new answering machine. To receive information on examinations call 465-EXAM. Thanks to Vina de Montegre for the fine coffee and goodies; and to Judy, KA6YJH for the home-baked tasties; and to Mac, WB6GXR, for those he brought. It was an excellent meeting, particularly for those of US who won prizes.

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday after the club meeting at various locations. Without fail, the meeting usually starts at 7:30 p.m. Club members are welcome to attend and observe. The March meeting will take place at the home of KB6DNR.

AT THE FEBRUARY MEETING, which was held at the home of KB6DNR: W9FQN announced committee appointments for the year (see President's Message, above). It was decided to try RTTY on the repeater at 2210 on Sunday evenings to test its use on the repeater (see Repeater, below). KB6DNR is to set up a library of QSTs for the use of club members. W9FQN and KB6DNR were added to the list of repeater control operators. The coffee and no-cal brownies were great!

REPEATER

For the first time since the early days of the repeater, RTTY was again heard on W6NWG/R when Larry, KB6DNR; Paul, KB5MU; and Lloyd, W6TFB; communicated in that mode at 2210, February 17th. It worked very well, and plans are that each Sunday at about 2210 anyone wanting to use RTTY through the repeater may do so. The use of RTTY is encouraged in order to increase our emergency traffic handling capabilities. It certainly is a faster, more efficient means of handling formal traffic. AFSK tones should be adjusted to a sufficiently low level to avoid driving the repeater into distortion and to avoid driving the monitoring stations to another repeater. No transmissions longer than one minute. Get your RTTY gear sharpened up and give it a whirl. Larry and the others will be looking for you. Plans are also in the offing to conduct CW practice on the repeater during periods of "low usage".

A GaAs FET pre-amplifier will soon be added to the front end of the 450 MHz repeater in an attempt to cure some of its extreme numbness. We'll just have to see whether that will do the trick and hope it doesn't make it so "hot" we have to add additional front end filtering.

FORESAIL

(If you think that's a jib, you're not mizzen the point!)

Motorola 120W 136-150.8 MHz base station in rack cabinet. All solid state except for tripler, driver, and final. Has GLB frequency synthesizer for tx/rx frequency control. W/spare tubes and all documentation. An excellent repeater or base station. Call Phil, K6ROR, and make an offer. It's Club-owned equipment so call 724-0098. If the Gint Computer answers, don't hang up - you may do better talking to it.

Tie wraps 8" 50 lb. breaking strength, clear Nylon, \$1/50 \$20/1,000. Call John, WB6IQS, at 758-3519.

Must sell! Hy-Gain 18AVT 10m-80m vertical, cost \$360 new, sell for \$150. Nice condition. Call Ron 433-1006.

Palomar Engineers Interface Cl-103, Kantronics Hamsoft for Vic-20. Like new. Call Harrison, WB6NIG, at 724-4773.

From estate of the late W6HUI: Heath hf swr/wattmeter HM-102, \$20; Li'l Bugger keyer, \$10; Micronta VOM 22-203U, \$10; Heath Cantenna \$20. Call Jim, WD6ENK, at 726-7204.

Kenwood TR2400 2M HT w/subtone encoder and accessories. Cost \$507, want \$225. Kenwood SM220 monitorscope w/BS8 panoramic adapter unit, works with TS180, TS820, or TS830, cost \$410, want \$275. Call Lloyd, W6TFB, 757-9374.

Am quitting after 60 years of ham radio! Hallicrafters HT-32B HF xmtr w/new tubes, Hallicrafters HT-33A linear amplifier w/new PL-172 final and power supply in 6' rack cabinet, VOM 6KV and 20K ohms per volt, Collins 75S3-B HF rx, Atlas 210X HF xcvr, Drake SSR-1 general coverage rx, Dentron QRP antenna match, URM-25D signal generator, HAL Communications ST-6 rtty converter w/RVD-1005, Wilson 1402 xtal contld 2M HT w/xtals and charger, Atronic Code Reader, ICom IC-255A 2M mobile xcvr, Infotech cw, rtty keyboard still in box never used. Tri-ex HM-354 self-standing crank-up 54' tower w/new HD-73 rotor and Hy-Gain tri-band quad, \$1,350. Call Jack, W6QP, 724-3341.

DSI 3550 frequency counter 50 Hz to 550 MHz w/manual, \$45; Hunter 2kw swr bridge model 25 w/pwr meter (remote) model 26 directional coupler, \$40. Following all Heath: SB-101 hf xcvr w/pwr supply & manuals, \$100; HW-7 QRP xcvr w/HWA7-1 pwr supply and manuals, \$25; HD-10 keyer w/manual, \$20; V6 vtmv \$25; GDO, \$35. Call Floyd, W6JSP, at 741-8391.

Johnson Viking 275w Matchbox, \$50; Drake WH-7 hf wattmeter, \$50; Vibroplex Original w/red paddles and jewel bearings, \$50. Some unreasonable offers refused. Call Earl, K6MXM, at 743-0860.

Tempo S-5 2m FM HT w/HM-5 mike, battery charger, and leather case, \$150. Call Don, W6FQV, at 728-1734.

Robot SSTV monitor Model 70, \$100; Elenco digital multimeter M-1200, \$25; Heathkit digital multimeter model 1212, \$25. Call Bill, N6COU, 758-7163.

Kenwood TS-820S, \$450; Drake MN-4 antenna tuner, \$75; Heath hybrid phone patch, \$25; Shure 444 mike, \$25; Palomar 300A 40-10m 600w p.e.p. linear amp, \$200; Call Phil, KB6DQR, at 757-7008.

Kenwood TS-520SE 7-band HF xcvr w/MC-50 mike, Heath HM-15 SWR bridge, \$425. 10-40M Mini-Quad w/30' mast, guys, coax, and rotor. Call Charlie, WB6DUS, at 757-0780.

Yaesu FRG 7000 general coverage rx, Radio West modified w/1.9 Collins SSB filter with switch and 4K ceramic AM filter, in mint condx, \$275. Write Tom Healy, N6DSX, 416 Bonair St., La Jolla, CA 92037.

Epson MX-80 printer w/RS 232C interface and Graftrax built in, new condx. Cost \$675, sell \$345 or offer. Call Stan, K7BHI, at 728-2668.

MFJ Model 721 SSB/CW active filter, \$35. Call Dennis, N6KI, at 271-6079.

Tempo S-1 2m ht w/every accessory, \$149; two tv antennas, used indoors and never raced, w/connectors & cables, will haggle. Call Will, W2FWV, 436-3277.

Hy-Gain TH6DXX 6-elm tri-band beam, HD-73 rotor w/contl & 70' of contl cable. Never raced or used in contests. Call Bob, WA6GYG, at 941-2824.

Roll your own! All IMI all the makings for that full gallon you've always wanted. A 3-1000Z and a spare, air system socket and chimney, capacitors, tank coil, power supply components, the works. It's all here. Call Charlie, WB6ZJZ, at 758-3666.

WANTED

(Chloe!)

Collins 312B-3 Speaker or 312B-4 Speaker-Console. Call Paul Pakus, N6KWC, days: 225-6111, evenings: 789-1864.

Band switch for Gonset 201 linear amplifier. Call Ted, K6RF, 439-8562.

Schematic for Regency 16-channel programmable scanner ACT-T-16K. Call Earl, K6CLU, at 724-2827.

160M linear amplifier. ICom IC-22A in working condx and/or other xtal controlled solid state rig. Drake FS-4 frequency synthesizer. Manual/schematic for Atronic code reader (early model). Call Dennis, N6KI, at 271-6079.

THANKS FOR THE DONATED EQUIPMENT

Thanks to Ralph Dempsey, N6DVL for his donation of a Heathkit HW-101, power supply, mike and swr bridge; and to Felix, N6IE, for getting it to us.

LATE STRAIGHT FROM THE FCC

(Courtesy of June Butler of the El Cajon Office)

License records of all licensees in the Private Radio Service are available for review for a fee from: International Transcription Service, 4006 University Dr., Fairfax, VA 20030. Requestors should write to the above address or call: 717-337-1433, 202-296-7322, or 703-352-2400.

We have also received a copy of PR Docket 85-22, the NPRM on changes to the rules for repeater operation in the Amateur Radio Service (see also the item on this Docket from the ARRL Letter).

Thanks to June for the timely information.

FROM THE ARRL LETTER

We are reminded that the annual ARRL Field Day Contest is always on the 4th full weekend of June, but that the 4th weekend has, for the past 11 years coincided with the last weekend. That's not the case this year. Field Day will be on the 22nd and 23rd of June in 1985.

The FCC has declared a moratorium on new repeaters while a Notice of Proposed Rulemaking, PR Docket 85-22, concerning repeater coordination is pending. The NPRM asks for comments from the amateur community on several issues concerning repeaters. ARRL has filed a pleading with the FCC asking for reconsideration of the moratorium. Copies of the NPRM are available from ARRL HQ for a large s.a.s.e. with 54 cents postage. Comments are due by July 1, 1985. Formal comment requires an original and five copies, but a single copy may be considered informally.

The Department of Defense has lent its support to PRB-1, ARRL's request for the FCC to preempt any local authority over federally licensed amateur radio stations such as antenna restrictions for other than public safety reasons.

Latest call signs issued as of 2/1/85: WE6L, KG6OL, N6LPD, KB6HRA.

AMATEUR LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination at any of the above locations must send a completed, signed, NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92014 ten days prior to the testing date. New 610s may be obtained from the FCC. Applicants must bring their original license and code certificate (if any) with them on the day of the exam. NO "walk-in" examinees accepted.

ELECTRONICALLY ORIENTED FLEA MARTS ARE: Ham radio-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd in Manhattan Beach on the last Saturday of the month from 0800 to 1100. Talk-in is on 145.320 MHz simplex.

SURPLUS GOODIES at HIGHWAY COMPANY, 305 W. Wisconsin Ave., Oceanside. See ad in this issue. Aluminum, brass, copper stock at Escondido Sales yard, 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, NiCads at Industrial Liquidators, 4887 Convoy St., San Diego.

IF YOU CAN'T SELL IT, or don't want to drive to TRW, the Club will be happy to take your surplus and sell it to enrich the Club's coffers. Contact any Club officer or Stan, W9FQN to make arrangements to unload your excess KWM-380 or IC-751.

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in March: N6COU. In April, none on our list. In May: W6HCD. If you want a reminder as to the expiration date of your amateur license, get it to us and we'll see that it is fed into the maw of the Gi'nt Computer.

We are saddened to report the passing of long-time club member Ted Kelso, W6POQ, of Escondido. Ted was one of the 2M ARES net control stations. He will be missed.

Club member Clint Pullen, WB6SLY, a resident of Vista, is also reported to be a silent key as of the 10th of February. We are sorry to learn of his passing.

RAIN REPORTING

This is one of the few public services in amateur radio which you can perform without leaving home! Reports of rain should be made to Joe, WB6HMY; Nate, K2RTQ; or John, K6QCW; at 1100. Report the rainfall for the previous 24 hours. Reports should also include the general location of the reporting station such as north Oceanside or central Escondido, etc. Unusual weather events such as cloudbursts of unusual intensity should be reported as they occur so the NWS can do a better job of issuing flash flood warnings. We have had a "good thing" going in our cooperation with the NWS, and they have appreciated it, so let's don't let it die. Do your part!

MORE NET MEMBERS NEEDED NOW THAT PACBELL IS GOING TO GET ZUM MORE OF OUR \$

Starting in February it costs us more to call shorter distances. That's what ZUM is doing to us. The North County Traffic Net will need more members to effect toll-free message delivery. It would certainly be nice to get some new net members from far away places with strange sounding names. For you folks who haven't tried traffic handling, please step forward and give us a hand. Let the NCS know that you'd like to be assigned to that night's net.

VOLUNTEER EXAMINER PROGRAM GOING FULL BLAST

If you're an Extra Class and would like to help with the FCC's Volunteer Examiner Program, please give Martin Cornell, K6NS, a call at 758-0782 or on W6NWG. Marty will help you to qualify as a Volunteer Examiner. This is one public service event which YOU can help with and, at the same time, insure the entrance into our ranks of good, qualified operators. DO IT!

DOWN THE TOOBE

Frank, the former KB6FOR, is now N6LGP. Congratulations. The same to Mary, KB6HCH, who has now up-graded to Technician, and is now terrorizing W6NWG/R. Waytago! Dora, the former KF6TF, is now KE7DR.

Ted, K6RF, now has his 5-element KLM up and on the air. Ted's forte is DX.

Earl, W6YYV, has been heard on 3890 holding forth on the subject of the TS430S he was giving a trial run. Sounded pretty good, too. Also sounded like he liked its many features.

Mickey, N6GWJ, underwent back surgery at Palomar Hospital. Her recovery was rapid and she was home in about ten days. She was able to maintain regular communications from her hospital bed via HT and W6NWG/R.

Phil, KB6DQR, has a center-fed 40M Delta Loop up and says that it's doing a fine job with contacts from 1,500 to 2,000 miles east and west on 100W phone. He plans to try feeding it on the corner, which will give him vertical polarization and low angle radiation. Sounds neat, Phil.

We've got the big Telrex ST4BM/3 seven-element 40-10M beam up at 70' here at N6INN/K6HAV thanks to Larry, KB6DNR; Stan, W9FQN; John, WB6IQS; and Earl, K6MXM. Sure looks purty and sounds just great. There's also a pair of KLM beams at about 80', one for 2M and one for 450.

Thanks to all of you who took the time to complain to your local Postmaster and the Postmaster in San Diego about abysmally late delivery of the February issue of Scope. We mailed it in Vista on the Wednesday one week before the club meeting. Many members in San Diego County had not received it two weeks later. It was received outside the county within 48 hours after posting so the failure was apparently at the main post office in San Diego. To do any good with complaints it is necessary to get the Complaints/Praises form(s) from the post office. Complete and send (postage free) the form(s) to the offending post office(s). Mac, WB6GXR, and others took the time to do just that. We appreciate it.

Thanks also to WB6GXR for the information he shipped to us telling of the city of Los Angeles' support of PRB-1.

WB6HMY reports the passing of Joe Foley, W7HQT, at age 97, who was a contact of many of our club members.

It's Goode to hear Gene, KB6GYG, back on the air thanks to the loan of a rig from Don, WD6FWE. Gene has a Goode antenna up now, too.

We understand that the ancient beam and tower at W6LKC/W6LZV came down the other day thanks to the work of Ed, N6GZI. Harry and Mabel were most appreciative of Ed's tower climbing. Mabel's home-baked bread went over pretty well too, according to reports on Ed's way home.

Jack, W6QP, says he's not interested in active hamming after 60 years of it. See his ad in this issue. Jack hasn't been very active for the past several years, but is a staunch PARC supporter. Keep a mobile rig or two, Jack, even if you are selling one of the Jaguars.

Emily, WA6ZKC, celebrated her 40th birthday (Sh! Don't tell her I told you) with a party at the WA6ZKC/WA6ZKD QTH. A grand time was had by all, and not too many got lost finding their way over the back roads of Rancho Santa Fe. We saw Guy, KB6AI; Jack, W6BLL; Gary, KM6A; Benjie, N6BLQ; and others too humorous to mention.

Bill, K6TQ, got his feet wet in the VE program last time in Vista; and we expect to see Ted, K6RF, at the next one. Soon, maybe not tomorrow, but soon, we expect to see Paul, WA6EJL, putting in an appearance.

Speaking of WA6EJL, Paul has indicated the possibility of a station and a course leading to a ham ticket at the Vista Boys' Club. It's still in the talking stages, but it sure sounds like an idea the PARC could afford to get involved in. Paul has a rig, donated by Bill, K6TQ, which could be used.

Still peaking of WA6EJL and K6TQ, Paul operated Bill's two-quad (one tri-band, and one 40M) station during the CW portion of the DX Contest. We heard you hollerin' CQ on 15M just as the band went out.

Marty, K6NS, never did tell us what he did with the beautiful stainless steel J-Pole 2M antenna he got courtesy of Dennis, N6KI.

Stan, K7BHI, worked the repeater with an HT from the briney while out on a sail boat. Never did hear where he was at the time.

All is back to normal at the K6ROR household now that Pheel's better half is back from a visit to Panama.

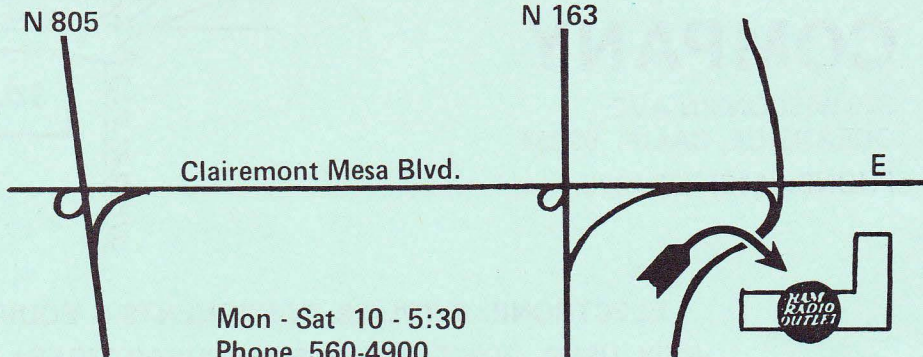
John, WB6IQS, is no longer a clock-puncher at Kraft. He's now doing consulting and working with Brian Comer on some new project to build an all band radio with KW final into the head of a pin or some such.

Dave, WA6HQM, has probably found the source of a persistent problem with his 2M mobile rig. Seems that on high power, and while in motion he's experienced a "picket fencing" effect for no reason. It happens only when on high power and may have something do with the final transistor protective circuitry.

George, K6RTD, is one of the unfortunate souls who's had to cross the boarder daily on business. I'm sure we wouldn't want to to quote him on his feelings about the recent delays - at least not in a nice family publication like this!

"That's all", she wrote.

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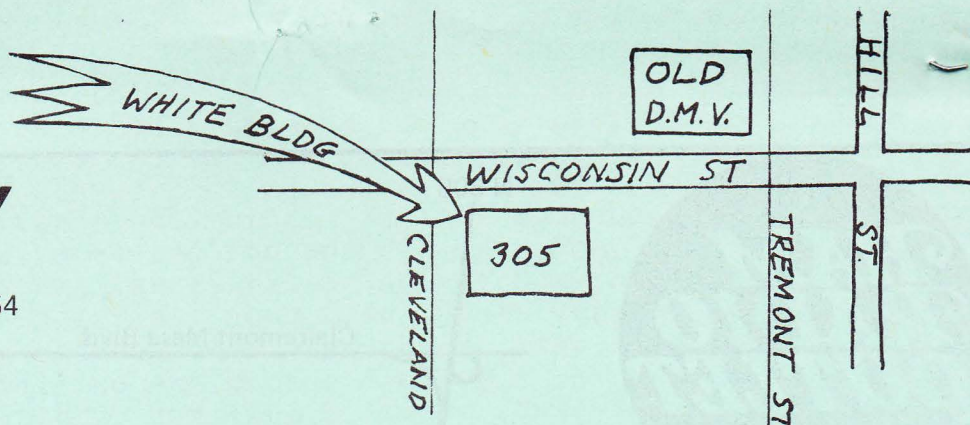
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SECRETARY: Phil Leonelli, KB6DQR, Oceanside
TREASURER: John Tentor, W6OLQ, San Diego

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first member and \$9.50 for each subsequent family member at the same address. Annual SCOPE subscriptions are \$2.50. Membership matters, changes of address, subscription matters: PARC, P.O. Box 1603, Vista, CA 92083-0530.

SCOPE MATERIAL: News items and ads to Ralph Crossman, K6HAV, P.O. Box 73, Vista, CA 92083 by Wednesday two weeks before the club meeting.

OFFICIAL CLUB BADGES: available from the club Treasurer - for a price!

---PRESIDENT'S MESSAGE---

Our constitution states that we "are to provide and maintain an effective two-way communications system in order to aid and assist any persons in need of such communications; to conduct activities to advance the general interest and welfare of Amateur Radio."

Our two repeaters provide excellent two-way communications for amateurs in San Diego County, and in the past have served us well in times of emergency. The two meter repeater can be battery operated for 24 hours without its normal AC connection. In the future we would like to wire in connections for the Club's 3.5 KW emergency generator, which we use on Field Day each year.

Art Smith, W6INI, the SEC for San Diego County, has been contacted and we are looking forward to working with him on a stronger Amateur Radio Emergency Service (ARES) for north county. We hope that club members interested in ARES will contact the ARES net which meets on 146.730 MHz each Sunday morning at 8:30 a.m. We hope that Art will provide us with ARES information for the SCOPE; and that we will see some of his assistants at club meetings from time-to-time.

Guy, KB6AI, has been working on a proposal for antenna systems for two local hospitals. This proposal was presented before the Executive Committee at its last meeting. The Committee recommends that the Club direct its SANDARC representatives, at the next club meeting, to present the proposal to SANDARC at the Council's next meeting in order to obtain funding from SANDARC.

Ralph, K6HAV, will again be the Chairman of the Field Day effort. I hope that the Club decides to support Field Day again this year since it is an excellent demonstration of an emergency-type operation. Ralph will be asking for your support at the next club meeting.

At present, it doesn't look as if we are doing much to "conduct activities to advance the general interest and welfare of Amateur Radio" except for our club programs and Marty's, K6NS, FCC testing program. We need ideas and workers to help us advance the general interest and welfare of Amateur Radio. Can you help?

73 de Stan, W9FQN

CLUB MEETINGS

Club meetings are on the first Wednesday of the month at 7:30 p.m. in the Community Room of Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista. Visitors welcome.

THE PROGRAM FOR THE APRIL MEETING will be another informative talk by Fred Brown, W6HCH, this time on home-brew Yagi antennas. If you heard Fred's recent talk on antennas in a no-antenna environment, you won't want to miss this one.

SILENT AUCTION: The usual high grade items plus a VOM-Transistor-Capacitor checker, a low voltage power supply, and a Ramsey Electronics

CT-50 frequency counter.

SHOW AND TELL: Phil, KB6DQR, will demonstrate his burglar alarm, which is installed in his car, simulating a break-in. If you have built something or recently bought something new, bring it in and tell us about it.

Great coffee and goodies too, thanks to Vina de Montegre and the rest of you wonderful low-cal bakers.

MARCH CLUB MEETING

Jack Althouse, K6NY, owner and proprietor of Palomar Engineers, gave us a very interesting demonstration of several of his products, including the noise bridge, the peak-reading swr/pwr meter, and the new computer interface with its very impressive new filters for RTTY, CW and ASCII. Jack's presentations was very interesting, as always.

Stan, W9FQN, showed us a punch for making dual sided floppy discs from single sided ones; and a ribbon re-inker for your printer ribbons.

The minutes and the Treasurer's report (closing balance of \$1,460.97) were read and approved, as were various committee reports. Paul, KB5MU, reported, as PARC rep to SANDARC, that two clubs had made motions to expend \$1,625 of SANDARC's funds to put antennas on several hospitals in the San Diego area for operation from their emergency rooms. The Club voted to instruct its delegates to vote in favor of the motions. No decision was reached on whether or not SANDARC should undertake the printing of a county call book. A motion by Lee, N6KGK, to read the Executive Committee minutes at the club meetings was defeated.

Thanks to Vina de Montegre for the fine coffee and wonderful chocolate chip no-cal goodies.

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday after the club meeting at various locations. Without fail, the meeting usually starts at 7:30 p.m. Club members are welcome to attend and observe - quietly and with a fitting sense of respect. The April meeting will take place at the home of KB6DNR.

AT THE MARCH MEETING, which was held at the home of KB6DNR: Tom Wilson, AJ6L, explained TASMA and announced that he was running for Vice Chairman. He is the lone representative from San Diego County. He asked for the support of the PARC. Motion carried to pay the PARC's \$10 dues in TASMA. KB6DNR reported on forthcoming programs. The Committee will recommend that the Club participate in Field Day June 22-23. One more test of RTTY/ASCII will be conducted on W6NWG/R prior to the next club meeting. Motion carried to recommend to the Club that it instruct its representatives to present a request for allocation of \$400 for purchase of two 2M antennas for emergency use to be premanently installed on Tri-City and Tri-City West Hospitals as requested by Guy, KB6AI.

REPEATERS

TWO REPEATERS, both 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 the other is 444.425 MHz and the output is 449.425. The 450 MHz machine is often on tone squelch (PL 3A). They are both located on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Control operators: KB6AI, KB6DNR, W9FQN, K6HAV, WB6IQS, WA6KZN, K6ROR.

John, WB6IQS, went to the mountain top with six inches of snow on the ground and installed a donated GaAsFET preamp in front of the receiver of the 450 MHz repeater. The 450 machine went from Sick, Sick, Sick to excellent. According to an early, quick look, it now has approximately the coverage of the 2M machine. This is partially due to the 70' antenna height, partially due to the 14 dB improvement of receiver sensitivity because of the new preamp, and partially due to the donated higher powered transmitter amplifier. The machine is a real pleasure to work now.

John also replaced the "broken" receiver channel element in the 2M machine with the new one received from Motorola. He said the High-Low thermometer in the building showed a low of 22 degrees. He took an electric heater with him which managed to get the building above freezing after several hours of work.

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in March: N6COU. In April, none on our list. In May: W6HCD. In June: KD6FY, WA6DCO and WA6HYB. If you want a reminder as to the expiration date of your amateur license, get it to us and we'll see that it is fed into the maw of the Gi'nt Computer.

NUDE AND REGNUED MEMBERS

It's good to see Al Goeppinger, W6FXL, of Escondido, and Jack Williams, W6BLL, of Encinitas and way stations, back into the fold. Al was kind enough to send along info on the passing of Ted, W6POQ, noted in last month's Scope. Jack is a PARC charter member. Welcome to new member Dave Lien, W6OVP, of El Cajon; to Bob Craik, WA6GYG, of Vista; and belatedly to George Uminski, K6YGK, of Del Mar. It's due to George that we have reinstituted the NUDE AND REGNUED MEMBERS column. Thanks George, we nuded that.

FORESAIL

(If you think that's a jib, you're not mizzen the point!)

Motorola 120W 136-150.8 MHz base station in rack cabinet. All solid state except for tripler, driver, and final. Has GLB frequency synthesizer for tx/rx frequency control. W/spare tubes and all documentation. An excellent repeater or base station. Call Phil, K6ROR, and make an offer. It's Club-owned equipment so call 724-0098. If the Gint Computer answers, don't hang up - you may do better talking to it.

Yaesu FT757GX HF xcvr, FT-757AT automatic antenna tuner, FP-102 spkr/fone patch, MD-1 mike, all mint, all for \$775. Call Allan, N7AMR, at 434-5656.

Tri-ex 54' crank-up guyed tower, HD-73 rotor, and TA-33 tri-band beam, \$400. Call Ed, N6GZI, at 270-1697.

Kenwood TR-8400 10W 440 MHz FM xcvr. Call Phil, K6ROR, at 724-0098.

Must sell! Hy-Gain 18AVT 10m-80m vertical, cost \$360 new, sell for \$150. Nice condition. Call Ron 433-1006.

Palomar Engineers Interface CI-103, Kantronics Hamsoft for Vic-20. Like new. Call Harrison, WB6NIG, at 724-4773.

Tri-ex HM-354 self-standing crank-up 54' tower w/new HD-73 rotor and Hy-Gain tri-band quad, \$1,350. Call Jack, W6QP, 724-3341.

Dentron Junior Monitor antenna tuner, \$30; Micro-Craft Morse-A Word, \$35; Kenwood PC-1 fone patch, \$35; Hunter 2kw swr bridge model 25 w/pwr meter (remote) model 26 directional coupler, \$30. Following all Heath: SB-101 hf xcvr w/pwr supply & manuals, \$100; HD-10 keyer w/ manual, \$20; V6 vtmv \$20; GDO, \$35. Call Floyd, W6JSP, at 741-8391.

Johnson Viking 275w Matchbox, \$50; Drake WH-7 hf wattmeter, \$50; Vibroplex Original w/red paddles and jewel bearings, \$50. Some unreasonable offers refused. Call Earl, K6MXM, at 743-0860.

Tempo S-5 2m FM HT w/HM-5 mike, battery charger, and leather case, \$150. Call Don, W6FQV, at 728-1734.

Kenwood TS-820S, \$450; Drake MN-4 antenna tuner, \$75; Heath hybrid phone patch, \$25; Shure 444 mike, \$25; Palomar 300A 40-10m 600w p.e.p. linear amp, \$200; Call Phil, KB6DQR, at 757-7008.

Epson MX-80 printer w/RS 232C interface and Grafrax built in, new condx. Cost \$675, sell \$345 or offer. Call Stan, K7BHI, at 728-2668.

K.E. Electronic iambic keyer w/2 short memories and dot-dash memory, \$25. Buy this one and be up the creek (there's no paddle with it). Call Dennis, N6KI, at 271-6079 10 a.m. to 10 p.m.

Tempo S-1 2m ht w/every accessory, \$149; two tv antennas, used indoors and never raced, w/connectors & cables, will haggle. Call Will, W2FWV, 436-3277.

Hy-Gain TH6DXX 6-elm tri-band beam, HD-73 rotor w/contl & 70' of contl cable. Never raced or used in contests. Call Bob, WA6GYG, at 941-2824.

Roll your own! All IMI all the makings for that full gallon you've always wanted. A 3-1000Z and a spare, air system socket and chimney, capacitors, tank coil, power supply components, the works. It's all here. Call Charlie, WB6ZJZ, at 758-3666.

WANTED

(Start houted men!)

Two or three drawer letter-size filing cabinet (cheap, cheep, cheep) for the Club's records. Call Phil, KB6DQR, at 757-7008.

Whip for 5/8 wave vertical for my 220 MHz antenna. Call Nash, W6HCD, at 728-3574.

Collins 312B-3 Speaker or 312B-4 Speaker-Console. Call Paul Pakus, N6KWC, days: 225-6111, evenings: 789-1864.

Band switch for Gonset 201 linear amplifier. Call Ted, K6RF, 439-8562.

160M linear amplifier. ICom IC-22A in working condx and/or other xtal controlled solid state rig. Drake FS-4 frequency synthesizer. Call Dennis, N6KI, at 271-6079.

LATE STRAIGHT FROM THE FCC

(Courtesy of June Butler of the El Cajon Office)

The FCC has proposed prohibiting disqualified persons from participating in third-party Amateur communications in a Notice of Proposed Rulemaking (FCC 85-85) on February 22. This would prohibit an Amateur whose license has been revoked, suspended or cancelled, voluntarily or involuntarily, from taking part in Amateur communications even though a qualified Amateur operator acted as control operator.

Thanks to June for the timely information.

FROM THE ARRL LETTER

FCC has lifted its 2M repeater moratorium in response to a request from the ARRL.

On Feb. 20, FCC released a Notice of Proposed Rulemaking in Mass Media Docket 85-38, which would permit an increase in allowable cable TV signal leakage from 20 uv per meter at 3 meters to 50 uv per meter at 3 meters on frequencies between 54 and 216 MHz. The FCC specifically asks for comments concerning whether the quality performance standards for cable TV systems should be modified or removed; and whether the signal leakage limits for cable TV should be relaxed. Comments are due by March 29, 1985. Comments from individuals, particularly those who have experienced interference from cable TV, will be most useful if they incorporate technical data concerning the leakage problems experienced from cable TV.

AMATEUR LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination at any of the above locations must send a completed, signed, NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92041 ten days prior to the testing date. New 610s may be obtained from the FCC. Applicants must bring their original license and code certificate (if any) with them on the day of the exam. NO "walk-in" examinees accepted.

ELECTRONICALLY ORIENTED FLEA MARTS ARE: Ham radio-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd in Manhattan Beach on the last Saturday of the month from 0800 to 1100. Talk-in is on 145.320 MHz simplex.

SURPLUS GOODIES at HIGHWAY COMPANY, 305 W. Wisconsin Ave., Oceanside. See ad in this issue. Aluminum, brass, copper stock at Escondido Sales yard, 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, NiCads at Industrial Liquidators, 4887 Convoy St., San Diego; and at Gateway Electronics at 4633 Convoy St.

IF YOU CAN'T SELL IT, or don't want to drive to TRW, the Club will be happy to take your surplus and sell it to enrich the Club's coffers. Contact any Club officer or Stan, W9FQN to make arrangements to unload your excess KWM-380 or IC-751.

THE NORTH COUNTY TRAFFIC NET

The North County Traffic Net is operated by the Club, and meets nightly on 146.730 MHz -600 kHz at 2000 local to handle formal written traffic. Visitors are welcome.

ZUM is doing it to us. The North County Traffic Net needs more members to effect toll-free message delivery. Let's have some new net members from far away places with strange sounding names. If you haven't tried traffic handling, please step forward and give us a hand. Let the NCS know that you'd like to be assigned to that night's net. DO IT! Net control stations and liaison stations are also needed. If you can help, contact Joe, WB6HMY.

DOWN THE TOOBE

Congratulations to Phil, KB6DQR, who finished off the job by taking, and passing, the Extra Class written exam.

Mickey, N6GWJ, thanks all of those club members who were kind enough to stay in touch with her while she was in the hospital; and those who sent cards and wishes.

Stan, K7BHI, is busy with the 20M Maritime Net, we hear.

Jack, W6BLL, has been in and out of the hospital again. Glad it was a short stay this time.

Speaking of W6BLL, Jack is a recent bridegroom. And he's married into a ham family. He's related by marriage now to Emily, WA6ZKC, and Stan, WA6ZKD. Seems that Jack has tied the knot with Emily's mother. They took ham radio with them on their honeymoon too! Congratulations. May it be a long and happy marriage.

Nash, W6HCD, and Phil, K6ROR, have joined the rest of us on 220 MHz with new IC-37As. You see, there was this real good deal from the folks down at HRO

Nash has sent along a copy of a 220 MHz repeater directory, published by the 220 Spectrum Management Association. Looks like the 220 repeater slots are as full as those on 2M! There are two very useful ones in north county: KA6YBC on 224.440 and WD6HFR on 224.490 (both minus 1.6 MHz). KA6YBC is located in the San Marcos Mountains with excellent north county coverage, and WD6HFR is the 220 Club machine with nearly the same coverage

as W6NWG since it's located in the PARC building on Mt. Palomar.

Carl and Leona Wallace, WD6B, and WA6OHB are now part of SANDARC's Volunteer Examiner Program, giving examinations aboard the Malaga in La Paz Harbor in Baja California. Their first exams were to be conducted on March 28.

On the Wallaces, note Carl's new call (he used to be K6YEO), and congratulations to Leona for passing the written portion of the Extra Class examination. She decided to keep her original call.

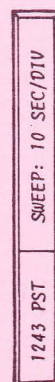
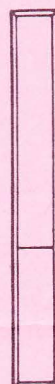
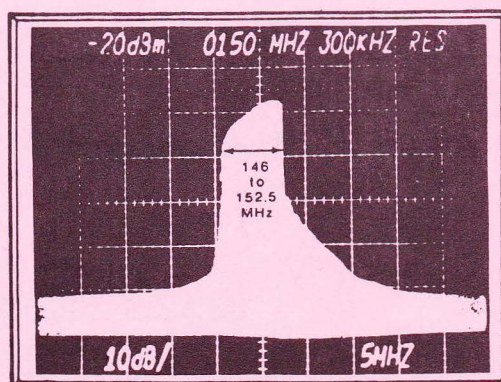
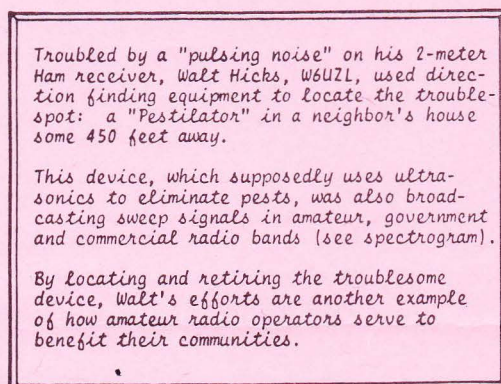
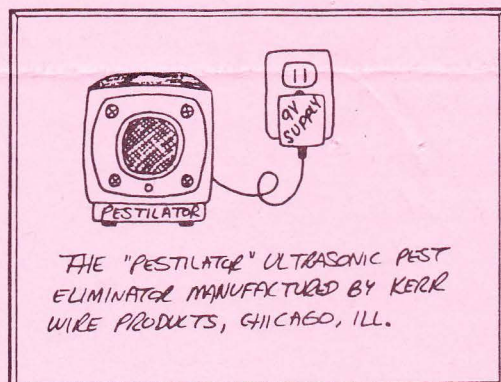
Jack, W6SMP, was in north county for a weekend or so recently. Good to hear him on W6NWG/R.

Bob, NC6J, sends a short note: "I have heard more and more hams giving their calls phonetically as: This is blank blank six Guatemala Yokohama Enchilada. Boy, that sure is hard for the new hams who just learned the proper phonetics from the book to understand. Even the older hams who are used to the off-the-wall phonetics have a hard time when the signal isn't all that good. It takes a lot of air time when it's repeatedly misunderstood and fills are required. The free loaders who use the machine won't read this, but if our members get in the habit of the correct phonetics it could just rub off on the others." Editor's note: The ICAO (International Civil Aviation Organization) phonetics ARE international and were selected after lengthy study as being easily understood and difficult to confuse. I was sure tickled to see the ARRL drop its own private set of phonetics and get on the band wagon. We could do worse than follow. 73 from KILOWATT SIX HAPPY APPLE VENDOR.

Scope ads really do the job! We recently had a WANTED and a FORESAIL ad which did the trick before we could even get them in this month's SCOPE. Bill Driml, W6NAT, WANTED a schematic for a HW-7, which he already has in hand, thanks to Ron, KF6ND; and Ron had an HT FORESAIL and it's already gone. Ah, the power of the press.

Vendy Johnson, W6CWK, writes that he and 11 others have formed the East Linn Wireless Club in Sweet Home Oregon. He and Genevieve, WA6KKQ, live on a river with real fish like steelhead and trout. Vendy says they need a file cabinet.

"That's all", she wrote.



MEASUREMENTS CERTIFIED BY: *[Signature]* DATE: MARCH 3, 1985

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QST
OFFICIAL JOURNAL

March 5, 1985

Mr. Ralph Crossman, K6HAV
P. O. Box 73
Vista, California 92083

Dear Ralph:

After reading the March issue of the Palomar ARC Scope which you send us on a complimentary basis, I had to put down on paper a thought that I've had frequently when I've read your newsletter in the past, and which occurred to me again: Your newsletter makes the club sound like one it would be fun to be a member of!

For a club that will be marking its 50th anniversary in just a few months, it's no mean feat to inject that sort of vitality into every issue. You do a great job!

73,

Sincerely,

David Sumner
David Sumner, K1ZZ
Executive Vice President

be

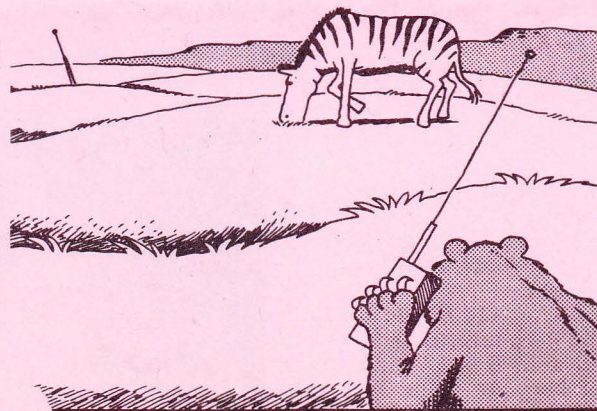
SINCE 1914—OF, BY AND FOR THE RADIO AMATEUR

THE FAR SIDE

By GARY LARSON

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5-14 *Larson*



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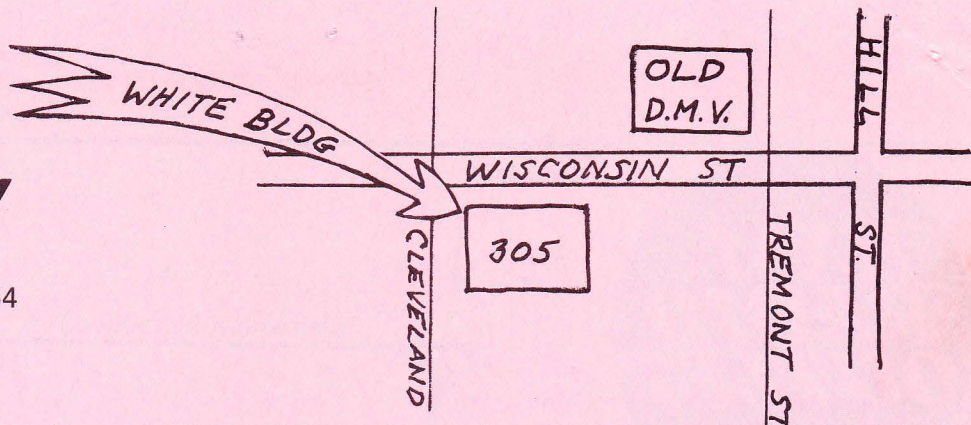
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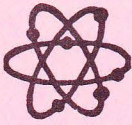
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W6NWX

Scope

VOL. XX, NO. 5

1936 - 1985

MAY, 1985

PRESIDENT: Stan Rohrer, W9FQN, Valley Center
 VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista
 SECRETARY: Phil Leonelli, KB6DQR, Oceanside
 TREASURER: John Tentor, W6OLQ, San Diego

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first member and \$9.50 for each subsequent family member at the same address. Annual SCOPE subscriptions are \$2.50. Membership matters, changes of address, subscription matters: PARC, P.O. Box 1603, Vista, CA 92083-0530.

SCOPE MATERIAL: News items and ads to Ralph Crossman, K6HAV, P.O. Box 73, Vista, CA 92083 by Wednesday two weeks before the club meeting.

OFFICIAL CLUB BADGES: available from the club Treasurer - for a price!

—PRESIDENT'S MESSAGE—

Emergency conditions require that we be prepared to handle messages within San Diego County, the L.A. Basin, California, and the rest of the U.S.A. Our phone net, which meets each evening at 2000, is one way we keep in practice handling messages in preparation for the day when some type of disaster strikes our area: earthquake, storm, nuclear, etc.

The Executive Committee authorized three tests of RITY on the repeater during the past several months to let members gain experience in the operation of their equipment and to see what problems we might have with RITY on the repeater. Sunday evenings at 2230 were picked because of the low usage of the repeater at that time. The RITY operators were encouraged to run 1-5 watts, use audio at 1/2 of voice level, allow the repeater to drop out during exchanges, identify at least once by voice during the evening, not time out the repeater, and encourage voice break-ins for those needing the repeater.

Paul, KB5MU, indicates that a PACKET (RITY) traffic system is now being set up parallel to our North County Traffic Net and the Southern California Net VHF (SCNV). It will probably be several years or so before significant traffic is handled by this method. The use of PACKET and regular RITY will not do away with our local evening phone net. It is quite possible that within 3-4 years several packet stations in the San Diego area will be responsible for all incoming and outgoing messages and the phone net will only distribute traffic to and from these stations with greatly reduced contact with SCNV on phone. It remains to be seen how effective PACKET and RITY become in message handling, but we must prepare to work with computers as we learned to operate on SSB (the old timers said it would never work because of the "Donald Duck" quality). When was the last time you talked to an AM station? RITY was slow to catch on due to the sound, size, and lack of equipment. (I still have a Model 19, 15, and 14 as well as other RITY boat anchors which haven't been touched in years and are now utilized to hold down one side of the house during Santa Anas.)

Bob, KA6HZF, proposed, at the last Executive Committee meeting that other forms of communications (PACKET, RITY, CW) be permitted on the repeaters after 2230 (10:30 p.m.) each evening. The Committee endorsed the idea and will bring its recommendations before the Club at the next meeting. Good amateur practices would have to be followed, with ample opportunity for phone contacts. In this way, club members would be able to get their equipment "up and running"; and to test their skills with others to improve the Club's ability to handle volumes of traffic such as we might be called upon to do in an emergency. Our repeater carried RITY in the early years (CW is legal too) at all hours of the day. Part 97 permits RITY operation on repeaters at any time, although the Club has done nothing to encourage it in recent years.

At present, the Club is contacting several "experts" in the area of PACKET and RITY with the intent of providing a home at our repeater site for PACKET and RITY repeaters. If this is accomplished, all RITY, PACKET and CW could be moved to the other repeaters. The Executive Committee feels that encouraging PACKET, RITY, and CW will be good for the Club, emergency communications, and amateur radio in San Diego County. We hope you will attend the May 1st meeting to express your views on the subject.

73 de Stan, W9FQN

CLUB MEETINGS

WHEN AND WHERE? On the first Wednesday of the month at 7:30 p.m. in the Community Room of Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista. Visitors welcome.

THE PROGRAM FOR THE MAY MEETING will be presented by Michael Tentler, the Russian immigrant electronic engineer who has spoken to us before. He will tell us about the Russian jamming transmitters used to jam the Russian language broadcasts of the Voice of America and the BBC. A very interesting speaker who certainly gives an insight as to how bad it is inside Russia.

SILENT AUCTION: The usual high grade items plus low voltage power supply, test meter, TV antenna rotator and more - much more!

SHOW AND TELL: Phil, WF6L, will demonstrate his car burglar alarm if time permits.

Great coffee and goodies too, thanks to Vina de Montegre and the rest of you wonderful low-cal bakers.

AT THE APRIL CLUB MEETING: Fred Brown, W6HCH, gave us another very educational illustrated talk on antenna building, using 1296 and 432 mHz models to demonstrate the effect of element spacing and other aspects of antenna construction and adjustment.

The Club voted to instruct its SANDARC representatives to submit to the Council the request for funds for buying antennas and coax for amateur use at Tri-City and Tri-City West hospitals. K6HAV reported two new paid Scope advertisers: Westcom and Palomar Engineers. Recent Silent Keys K6RY, K6SQ, and W6CAX were also reported. K6HAV announced that the Executive Committee recommended that the Club participate in ARRL Field Day Contest. A motion to do so passed. The Club also heard about the good works of Bob, KA6HZF, who had loaned K2RTQ a power supply while he repaired Nate's faulty one; and who had taken the time and trouble to mow K6NS' lawn while Marty was in the hospital.

Thanks to Vina de Montegre for the fine coffee and wonderful chocolate chip no-cal goodies.

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday after the club meeting at various locations. Without fail, the meeting usually starts at 7:30 p.m. Club members are welcome to attend and observe - quietly and with a fitting sense of respect. The May meeting will take place at the home of WF6L.

AT THE APRIL MEETING, which was held at the home of KB6DNR: The Committee voted to recommend to the Club that the repeaters be available for other uses (CW, RTTY, Packet) with certain restrictions to permit emergency or normal voice operation. This to be after 2230.

An increase in the subscription price of the Scope was discussed, since the cost of publication and mailing is slightly over \$3 for 12 4-sheet editions. The Committee raised the price of the Scope to \$3 per year. Bob, KA6HZF, was appointed as the Club's representative to negotiate with the Vista Unified School District regarding an Amateur Radio training program for students. A letter from Lee, N6KGK, to the Committee was read and will be discussed later. Great choc chips, Vina.

DOC HAWKINS, K6RY, SILENT KEY

We are saddened to report the passing of a long-time Palomar Amateur Radio Club member and supporter, Doc Hawkins, K6RY, on March 24 after a long illness. Doc was an erudite gentleman with a wry sense of humor - a privilege and a pleasure to contact and know. He was a retired surgeon who had worked for the Atomic Energy Commission and as a ship's doctor. Among his former call signs was W9LID, of which he was outspokenly proud. He was an accomplished musician, linguist, and baker. We are very sad to see Doc leave us - he added an up-beat note to all he met.

REPEATERS

TWO REPEATERS, both 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 the other is 444.425 mHz and the output is 449.425. The 450 mHz machine is often on tone squelch (PL 3A). They are both located on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Control operators: KB6AI, KB6DNR, W9FQN, K6HAV, WB6IQS, WA6KZN, K6ROR.

ARRL FIELD DAY CONTEST, 1985

The Club has voted to take part in Field Day again this year. Our Field Day site will be the same as last year's - the Valley Center Water District's reservoir across the street from the W9FQN QTH. Details on how to get there in the June issue.

We will again compete in the four transmitter class. This year we will add a Packet station and a round-the-clock CW station. The CW station will operate on all bands. We need a good turn-out of CW ops to man it since CW contacts count double. We need a Chief Operator for 20M and for 40M, as well as for the CW station. During daylight hours we will have transmitters on VHF/UHF, 15M, 20M, 40M, and all-band CW. VHF/UHF and the 15M stations will share time. At night we will have transmitters on VHF/UHF, 20M, 40M, 75M,

and all-band CW. VHF/UHF and 40M and 75M will alternate. A packet station will be on as contacts are available, but will not count as a separate transmitter. The repeater provision is waived for packet contacts.

We're hoping that the non-ham XYLS can lend a hand in this operation by providing a potluck dinner Saturday night. Sure would be neat and would make a nice family outing. And the testers could keep right at it and eat in shifts so no time and contacts are lost. How about it?

Folks who can help operate, log, set up and take down the stations can let Ralph, K6HAV, know about it by phone at 727-5866 or on the air. We really need a good turn out. Let's do it! More details in the June Scope.

P.S.: We operate from 1100 June 22 through 1100 (both local) June 23. We'll set up Friday afternoon or Saturday morning and start out fresh.

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in May: W6HCD. In June: KD6FY, WA6DCO and WA6HYB. In July: K6LNJ. August: WB7OCR and K6ROR. If you want a reminder as to the expiration date of your amateur license, get it to us and we'll see that it is fed into the maw of the Gi'nt Computer.

NUDE AND REGNUED MEMBERS

NEWED members are: Rod & Geneen Reed, N6LVN & KB6HIA, El Cajon; LCdr Bill Denton, NG6Z, Lakeside; Larry Seaman, W6LCT, Vista; and Gerry Earl, KB6IDZ, Poway. Welcome aboard. We're sure glad to have you with us.

REGNUED members are: Jim Faughn, WD6ENK; Peter Glaser, W6OKG; and Ernie Specht, WA7AMS. Thanks for reenlisting early. Honest John, W6OLQ, sure appreciates us all not ganging up on him in July and August!

THANKS TO THE PARC

The widow of Jim Muncey, W6HUJ, thanks the PARC for the efforts of its Survivors Committee in selling Jim's amateur radio equipment, which brought \$933. Jim, WD6ENK, who took the time and effort to sell the W6HUJ equipment presented the Club with a Heathkit SB-101 and AC power supply, which Mrs. Muncey donated.

Mrs. Alice Pullen, widow of Clint, WB6SLY, expressed her gratitude to the Club for disposing of Clint's gear, which brought \$400, according to Bill, WB6TBQ, who took care of it for the Club's Survivor's Committee. Mrs. Pullen donated a 2M antenna to the Club.

FORESAIL

(If you think that's a jib, you're not mizzen the point!)

Swan SS-200A 200W PEP solid state SSB/CW HF xcvr, \$300; Heath SB-610 Monitorscope, \$85; Clegg 27B 25W 2M FM synthesized xcvr, \$75. Call Ralph, K6HAV, 27-5866.

Yaesu FC-301 500W antenna tuner, 10-160M w/four antenna positions, in new condx, \$80. Call Don, KD6PP, at 728-6098.

Tri-ex 54' crank-up guyed tower, HD-73 rotor, and TA-33 tri-band beam, \$400. Call Ed, N6GZI, at 270-1697.

Kenwood TR-8400 10W 440 MHz FM xcvr. Call Phil, K6ROR, at 724-0098.

Swan 500CX SSB HF xcvr, modified in 1983, w/117CX pwr supply; Swan phone patch; TH-33 Jr. beam; CDE rotor; coax; 40' (4 10' sections) tower. Must sell, make an offer. Call Harry Parker, W6ASQ, at 728-8236.

Swan 500 w/117XC & 14X (117VAC & 12VDC supplies); Gonset G-66B mobile rx w/AC supply; Gonset Commander multi-band tx; numerous mikes and meters. Call Fred Schnell, W6OZF, at 724-0868.

Palomar Engineers Interface CI-103, Kantronics Hamsoft for Vic-20. Like new. Call Harrison, WB6NIG, at 724-4773.

Tri-ex HM-354 self-standing crank-up 54' tower w/new HD-73 rotor and Hy-Gain tri-band quad, \$1,350. Call Jack, W6QP, 724-3341.

Dentron Junior Monitor antenna tuner, \$30; Micro-Craft Morse-A Word, \$35; Kenwood PC-1 fone patch, \$35; Hunter 2kw swr bridge model 25 w/pwr meter (remote) model 26 directional coupler, \$30. Following all Heath: SB-101 hf xcvr w/pwr supply & manuals, \$100; HD-10 keyer w/manual, \$20; V6 vtmv \$20; GDO, \$35. Call Floyd, W6JSP, at 741-8391.

Must sell! Hy-Gain 18AVT 10m-80m vertical, cost \$360 new, sell for \$150. Nice condition. Call Ron 433-1006.

Tempo S-5 2m FM HT w/HM-5 mike, battery charger, and leather case, \$150. Call Don, W6FQV, at 728-1734.

Kenwood TS-820S, \$450; Drake MN-4 antenna tuner, \$75; Heath hybrid phone patch, \$25; Shure 444 mike, \$25; Palomar 300A 40-10m 600w p.e.p. linear amp, \$200; Call Phil, WF6L, at 757-7008.

Epson MX-80 printer w/RS 232C interface and Grafrax built in, new condx. Cost \$675, sell \$345 or offer. Call Stan, K7BHI, at 728-2668.

Hy-Gain TH6DXX 6-elm tri-band beam, HD-73 rotor w/contl & 70' of contl cable. Never raced or used in contests. Call Bob, WA6GYG, at 941-2824.

Roll your own! All IMI all the makings for that full gallon you've always wanted. A 3-1000Z and a spare, air system socket and chimney, capacitors, tank coil, power supply components, the works. It's all here. Call Charlie, WB6JZ, at 758-3666.

WANTED

(Start houted men!)

Two or three drawer letter-size filing cabinet (cheap, cheep, cheep) for the Club's records. Call Phil, WF6L, at 757-7008.

2M inverter for Yaesu FLDX-400. Call Buck, KA0RGQ, at 941-0867.

Whip for 5/8 wave vertical for my 220 mHz antenna. Call Nash, W6HCD, at 728-3574.

Collins 312B-3 Speaker or 312B-4 Speaker-Console. Call Paul Pakus, N6KWC, days: 225-6111, evenings: 789-1864.

Band switch for Gonset 201 linear amplifier. Call Ted, K6RF, 439-8562.

Schematic for Alliance U-100 TV antenna rotor. 160M linear amplifier. ICom IC-22A in working condx and/or other xtal controlled solid state rig. Drake FS-4 frequency synthesizer. Call Dennis, N6KI, at 271-6079.

LATE STRAIGHT FROM THE FCC

(Courtesy of June Butler of the El Cajon Office)

The station license of James W. Smith, W6VCE, of Alpine, has been revoked and his Advanced Class operator's license has been suspended for the balance of its 5-year term as a result of a hearing which found that he had jammed certain San Diego repeaters. The entire docket will be available for inspection at the next club meeting.

Thanks to June for the timely information.

FROM THE ARRL LETTER

The ARRL has filed comment with the FCC protesting the proposed increase in permissible leakage radiation from cable TV systems. A copy of the item will be available at the May club meeting.

Packet radio is good for a bonus of 100 points on Field Day.

Latest call signs issued as of March 1: WE6X, KG6PA, N6LRI, KB6HVP.

AMATEUR LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination at any of the above locations must send a completed, signed, NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92041 ten days prior to the testing date. New 610s may be obtained from the FCC. Applicants must bring their original license and code certificate (if any) with them on the day of the exam. NO "walk-in" examinees accepted.

ELECTRONICALLY ORIENTED FLEA MARTS ARE:

Ham radio-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd in Manhattan Beach on the last Saturday of the month from 0800 to 1100. Talk-in is on 145.320 mHz simplex.

SURPLUS GOODIES at HIGHWAY COMPANY, 305 W. Wisconsin Ave., Oceanside. See ad in this issue. Aluminum, brass, copper stock at Escondido Sales yard, 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, NiCads at Industrial Liquidators, 4887 Convoy St., San Diego; and at Gateway Electronics at 4633 Convoy St.

IF YOU CAN'T SELL IT, or don't want to drive to TRW, the Club will be happy to take your surplus and sell it to enrich the Club's coffers. Contact Stan, W9FQN, or any other Club officer to make arrangements to unload your excess KWM-380 or IC-751.

JOINING OR REENLISTING IN THE ARRL? Do it via the PARC and the Club will get \$2 which would otherwise go to Gnuington (CT 06111, that is). Won't cost you a silly sou more than if you had rashly gone off on your own, either. Just make your check payable to the Palomar Amateur Radio Club and get it to "Treasurer John" care of the P.O. Box 1603 address in the masthead, or hand it to him at the next club meeting. The Tab is \$25 per year, two years for \$49, or three for \$72. John will jump for joy as he laughs all the way to the bank. If you're not an ARRL member, why not? Who else have you got lobbying for your hobby?

AMATEUR EMERGENCY COMMUNICATIONS DURING MAJOR EMERGENCIES

(Emergency Communications Committee, PARC)

We haven't had to handle mass emergency communications for any problem in north county. A couple of locals did have the experience of taking thousands of messages from Red Cross Evacuation Centers during the San Fernando Valley Earthquake. It was done on MARS frequencies because MARS was set up to handle high-volumes message traffic on RITY. In two days time 3000-4000 messages were received, re-cut, and retransmitted into MARS networks to stations all over the world. Emergency RITY stations were set up at the evac centers. Traffic was taken from the evacuees, put onto 2M FM, received in Vista, and

retransmitted into the MARS traffic networks. Amateur voice and CW networks could not handle the volume of health and welfare traffic which poured out of the evac centers. MARS could, using RTTY.

With increasing warnings of a Richter Scale 8+ quake, we better get hot and develop our RTTY, ASCII and Packet traffic capabilities with the accent on emergency message handling capabilities. Will you be ready? I hope the Club, with its members and its repeaters and other resources, is ready. Let's get on with it - including RTTY-ASCII traffic nets using standard ARRL message format and good net practices. Our Section Emergency Coordinator, Art Smith, W6INI, is making plans along these lines. We can work to support those plans.

THE NORTH COUNTY TRAFFIC NET

The North County Traffic Net is operated by the Club, and meets nightly on 146.730 MHz -600 kHz at 2000 local to handle formal written traffic. Visitors are welcome.

ZUM is doing it to us. The North County Traffic Net needs more members to effect toll-free message delivery. Let's have some new net members from far away places with strange sounding names. If you haven't tried traffic handling, please step forward and give us a hand. Let the NCS know that you'd like to be assigned to that night's net. DO IT! Net control stations and liaison stations are also needed. If you can help, contact Joe, WB6HMY.

SICK CALL

Both Marty, K6NS, and Guy, KB6AI, gave us some anxious moments with hasty visits to the hospital. Guy made it to the Emergency Room with no time to spare after a batch of unexplained internal bleeding. Marty had breathing and gastro problems. They're both out now and we're most grateful. Bill, W6VDA, is back up on the air after a long battle with cancer of the jaw. He says he won't know whether he's won or not for another year. We're all rooting for you, Bill.

DOWN THE TOOBE

As we said earlier, you should be a member of the ARRL - that is - unless you're already a member of an equally strong organization of radio amateurs which represents as large a number of us as the ARRL does. I don't know of any, and I do feel that the League does a fine job of representing the hobby - nationally and internationally. The ARRL is also ready to help at the local and individual level. Their assistance in local anti-antenna fights is well documented. If you don't belong, you're freeloading when the League does its thing for US. You may not totally agree with the League's viewpoint on various issues, but you can't do any good for your own point of view by staying out of the ARRL. It's like refusing to vote to show your disapproval of government policy. JOIN!

Hope you notice the new advertisers in this month's issue. Welcome to Jack Althouse, K6NY, the owner, Chief Engineer, cook, bottle washer and general factotum of Palomar Engineers in west Escondido at 1924-F West Mission near Nordahl. Merit Arnold, W6NLO, is the boss at Westcom over in San Marcos. He has a fine bunch of hams working for him: Floyd, W6JSP, Bob, KA6HZF, and Jerry, W9KEX. See their ads in this issue. They're north county electronics manufacturer/dealers with good products to offer.

Did you know that we now have NG6Z (Bill) and NZ6G (Gene) as club members. Try that one in a QSO some time.

Both Paul, KZ6X, and Phil, WF6L, have reported very good results with the Delta Loop antenna (QST, Oct?'84). Phil says he had a 40M contact with Massachusetts running 100W. He's center feeding the Delta. Sure looks like a good way to get an efficient HF multi-band hidden antenna up. All it takes is one tree or some such as a center support.

The ARRL Southwestern Division Convention will take place on the Queen Mary in Long Beach August 9-11, 1985. Call Kathy, KA6RRR, at 714-636-8661 for details. Pre-registration tickets now available.

Congratulations to Stan, W9FQN, who passed the Advanced Class Examination at the April VE Program exams in Vista; and to Gerry, KB6IDZ, who passed the Technician Class exam and joined the PARC all in one swell foop. Phil Leonelli is now WF6L and Rod Reed is now N6LVN. Congrats.

Speaking of the VE Program, K6NS' crew did right well in examining nine folks, only two of whom did not succeed to some degree. One fellow walked in with no ticket and sailed out with an Advanced Class certificate. Waytago, Marty.

Bill, W6VDA, is back up on the air after a long siege of illness. He's an asset to the North County Traffic Net, even if he's had a time of decyphering the inscrutably orientally written Engrish of the book for his new IC-27A. (The book does NOT tell us that frequencies can only be put in memory WITHOUT the offset. The offset is put in afterwards, but not with the frequency at the time of storing it). Same for the IC-37A and probably for the IC-47A.

"That's all", she wrote.

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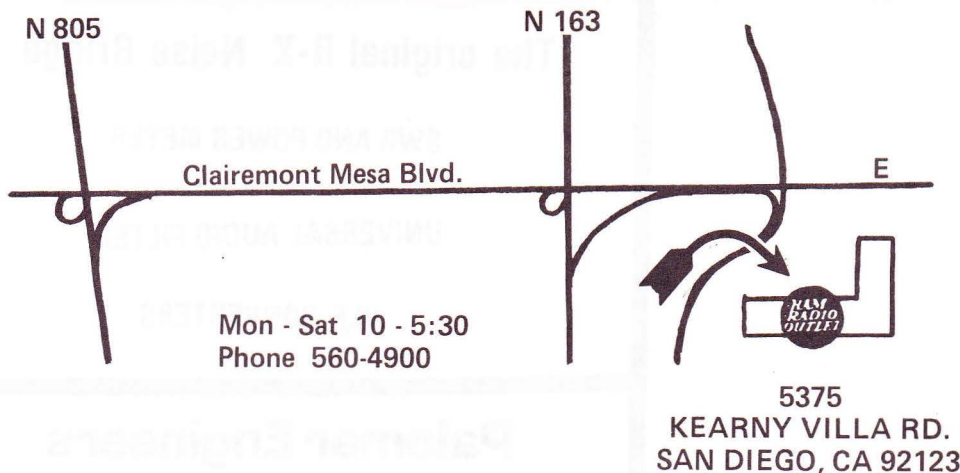
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K6AYJ	Nichols, Edith	KD6FY	Belfield, Scott	N6KIM	Sieber, Joan	KS6S	Rice, Bob
WD6B	Wallace, Carl	NZ6G	De Plomb, Eugene	W6KRH	Elder, Chet	W6SE	Martin, John
N6BAD	Reber, John	KA6GHE	Patchel, Judith	W6KUQ	Griffin, Ron	WA6SGK	Martin, Alan
WD6BEZ	Gonsett, Judy	K6GJD	Salter, Bill	N6KVV	Wong, Dennis	K6SLA	Church, Jim
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W6DEY	Maxson, Roy	K6HE	Sandberg, Sandy	KF6ND	Wilhelms, Ron	KH6VO	McManisley, Jim
KB6DNR	De Montedre, Larry	WB6HFE	Renne, Frank	W6NFG	Mandy, Bill	WB6VYC	Chambless Jr., Burr
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KA4DRX	Christman, James	WB6HMY	LaPointe, Joe	WA6NNC	Rivera, Bob	K7WLX	Felton, Bob
N6DSU	Healey, Wilma	K7HOE	Mattison, Clarke	K6NS	Cornell Jr., Marty	WA3WOO	Hawkins, James T.
N6DSX	Healey, Thomas	WA6HPP	Tipton, Frank	WA6OAR	Hammond, Randy	W6WPD	Priest, Bill
N6DVL	Dempsey, Ralph	WA6HQM	Copley, Dave	WB6OBH	Mayes, Pete	WA6WQI	Jenkins, Mickey
W6DWE	Kirkpatrick, Claude L.	WB6HSZ	Campbell, John	WB7OCR	Evans, Lee	KD6WX	Patchel Sr, Herbert
KA6DWU	Burton, Doc	W6HW	Baumsartner, Vern	W6OKG	Glaser, Peter	KZ6X	Buscema, Paul
WA6DYV	Swader, John B.	WA6HYB	Push, D. C.	W6OLQ	Tentor, John	KE6XF	Moore, Wade
WA6EJL	Dorey, Paul	WA6HYC	Watt, Bill	KABOUD	Zusack, Mike	KF6XW	Prior, Bob
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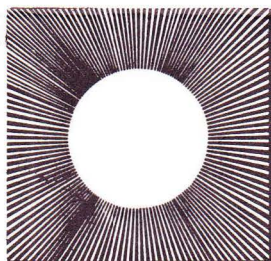
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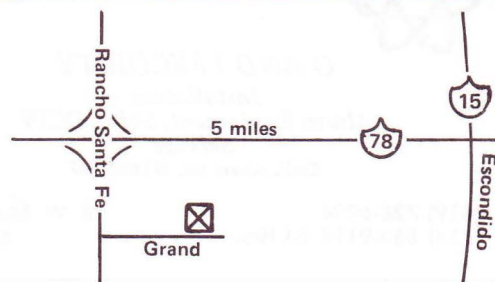


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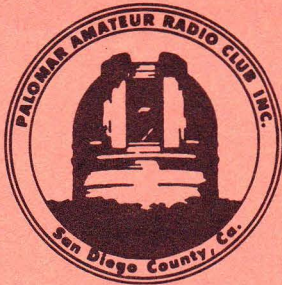
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John Kuivinen
WB6IQS
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07/85



W6NWX

Scope

VOL. XX, NO. 6

1936 - 1985

JUNE, 1985

PRESIDENT: Stan Rohrer, W9FQN, Valley Center
 VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista
 SECRETARY: Phil Leonelli, WF6L, Oceanside
 TREASURER: John Tentor, W6OLQ, San Diego

June Club Meeting Frequency & Deviation Clinic

Bring your 2-meter radios to the June 5th club meeting and check them on professional test gear. Bob Gonsett, WA6QQQ, Bob Findlay, W6NZX, and Steve Cilurzo, KA6YBC, will provide spectrum analyzers and test sets that'll knock your socks off.

Here's how to join in the fun:

- Bring your HTs, base radios, microphones, batteries and power supplies to the meeting. Leave antennas and coax behind.
- We'll supply 115VAC for your base rigs and you can arrange with friends to share a 12VDC power supply if you so desire. The club will not supply DC power.
- Bring all necessary tools to open and tweek your rigs. Also bring the instructions and try to locate the frequency, audio gain and deviation adjustments ahead of time.
- We'll supply male UHF and BNC connectors to link the rigs to the test gear.

Receiver sensitivities, touch tone deviations, PL injection levels and rigs on other bands will also be tested if time allows. Don't miss this monumental opportunity to set your rigs straight and don't hesitate to invite a friend, especially the guy down the block with the bonzo deviation!

---PRESIDENT'S MESSAGE---

The Club's membership year ends July 31st and we hope that all of you will take the time to complete the application blank enclosed this month and send your dues in for the next club year starting August 1st. If you wait until late July you could miss your August SCOPE.

The Palomar ARC will be celebrating the 50th anniversary of its founding next Spring. The Club has changed character quite a bit since its first meeting in Escondido 49 years ago. The first members were mostly north county amateurs interested in bigger and better spark gaps which could only communicate over short distances by Morse Code. We are still a north

county-based club which meets in Vista, but we now have many members from all over the county who come to our meetings. Our interests run from CW, phone, DX, RTTY, ASCII, Packet, and include our repeaters which serve as communications links between us regardless of our operating preferences.

Some of our membership joins only because of the 146.730 repeater and they do not care to, or are unable to, participate in other club activities. Some are retired, who selected this area to live in because of the climate or because they were based here with the military. We welcome you! Another group was first introduced to amateur radio through the CB ranks and are very active in the Club and its traffic net. We welcome you! A few of you are "radio loco" and enjoy participating in almost all aspects of amateur radio. We find it hard to get along without you. Some of you are young and bright with fresh ideas and enthusiasm, which the Club can always use. We need and welcome all of you!

The Palomar Amateur Radio Club is a melting pot of many interests and ideas. It is sometimes difficult for the club officers to serve these varied interests. We hope that all of you will choose to reenlist; and that you will encourage your friends to join us for our 50th anniversary year.

In this new club year we hope to significantly increase our emergency preparedness before this half of California slides into the peaceful Pacific. We are working toward improving the repeater and the repeater site. We will be removing the tall trees in front of the antennas and replacing them with lower growing shrubs. We also have some antenna repair to be done and some work to improve the interior of the repeater building. There is a possibility of adding a Packet Radio Repeater to the site, and you will soon be informed of the details.

It should be an exciting 50th year. We hope that you will all "come aboard" and help us to make it a year to remember.

It has become very noticeable that our club members are doing a better job of responding to calls for emergency assistance on the repeaters. Let's keep up the good work and not let calls for emergency help go unanswered.

73 de Stan, W9FQN

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first member and \$9.00 for each subsequent family member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: PARC, P.O. Box 1603, Vista, CA 92083-0530.

SCOPE MATERIAL: News items and ads to Ralph Crossman, K6HAV, P.O. Box 73, Vista, CA 92083 by Wednesday two weeks before the club meeting.

OFFICIAL CLUB BADGES: available from the club Treasurer - for a price!

CLUB MEETINGS

WHEN AND WHERE? On the first Wednesday of the month at 7:30 p.m. in the Community Room of Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista. Visitors welcome.

AT THE MAY CLUB MEETING: It was reported that the subscription price for the SCOPE would be \$3.00. The Club voted to permit the Executive Committee to set the hours for RTTY/ASCII operation on the repeaters.

Dr. Michael Tentler again gave us a most informative talk on his life in the Soviet Union and his "escape" therefrom. He also told us about the Soviet jamming of the Russian language broadcasts of the VOA and the BBC; and how avidly the Russian people would try to hear these broadcasts. Over 80 folks attended, and it was good to see Bill, K6TQ; Earl, K6CLU; Bob, WA6QQQ; and others too humorous to mention. There were also lots of visitors including Boots, W6HAW. It was a fine evening, especially for some of us winners.

Thanks to Vina de Montegre for the fine coffee and wonderful chocolate chip no-cal goodies.

SURVIVORS' COMMITTEE

The Club is available to help the survivors of Silent Keys in the dismantling of the radio station and the disposal of the equipment. The Survivor's Committee is an ad hoc committee, formed of club members who are known to the survivors; and such others as are needed to disassemble the station and antennas; and price, advertise, and sell them to the best advantage and according to the wishes of the survivor. Contact Stan, W9FQN, if you have any questions or if assistance is needed. The Club does, by letter of condolence, contact each surviving spouse; and makes the availability of the Club's assistance known. This is not a new club function, but one which we have been doing over the years.

THANKS

Sue Hawkins, K6RY's widow, sends her thanks to the Club and its many members who expressed to her their sorrow at Doc's illness and loss. As per Doc's wishes, she is donating some of his equipment to the Club.

FORESAIL

(If you think that's a jib, you're not mizzen the punt!)

Kenwood 2500 HT w/MS-1 charger and SMC speaker mike, all for \$250; Benchner key, chrome model, never used, \$30; Kenwood SW-2000 swr/pwr meter w/SW-3 coupler, never used, \$75; Cubic-Swan M-34 mobile antenna for 40-10M, new, \$60. Call Allen, N7AMR, at 434-5656.

Yaesu FT225RD 2M all mode base xcvr for 12VDC, 117 or 234VAC. 25W on SSB, FM, and CW. Vox, semi-break-in CW w/sidetone, noise blanker, discriminator meter and offset clarifier for tx/rx, digital and analog frequency readout, programmable tone burst. Never raced. Not equipped with coffee grinder. Call Felix, N6IE, at 724-4772.

Swan SS-200A 200W PEP solid state SSB/CW HF xcvr, \$300; Heath SB-610 Monitorscope, \$75; Call Ralph, K6HAV, at 727-5866.

Gonset GSB-201 80-10M linear amplifier - uses four 572-Bs. In good condx and working on 20M, but needs new band switch for the other bands. As is for \$175. Call Ted, K6RF, at 439-8562.

Yaesu FC-301 500W antenna tuner, 10-160M w/four antenna positions, in new condx, \$80. Call Don, KD6PP, at 728-6098.

Hallicrafters FPM-300 10-80M scvr w/mic \$165; Bandmaster Deluxe 80-2M xmtr, \$40. Call Alan, KF6EU, at 728-4106.

Tri-ex 54' crank-up guyed tower, HD-73 rotor, and TA-33 tri-band beam, \$400. Call Ed, N6GZI, at 270-1697.

Kenwood TR-8400 10W 440 MHz FM xcvr. Call Phil, K6ROR, at 724-0098.

Swan 500CX SSB HF xcvr, modified in 1983, w/117CX pwr supply; Swan phone patch; TH-33 Jr. beam; CDE rotor; coax; 40' (4 10' sections) tower. Must sell, make an offer. Call Harry Parker, W6ASQ, at 728-8236.

Swan 500 w/117XC & 14X (117VAC & 12VDC supplies); Gonset G-66B mobile rx w/AC supply; Gonset Commander multi-band tx; numerous mikes and meters. Call Fred Schnell, W6OZF, at 724-0868.

Palomar Engineers Interface CI-103, Kantronics Hamsoft for Vic-20. Like new. Call Harrison, WB6NIG, at 724-4773.

Tri-ex HM-354 self-standing crank-up 54' tower w/new HD-73 rotor and Hy-Gain tri-band quad, \$1,350. Call Jack, W6QP, 724-3341.

Dentron Junior Monitor antenna tuner, \$30; Micro-Craft Morse-A Word, \$35; Kenwood PC-1 fone patch, \$35; Hunter 2kw swr bridge model 25 w/pwr meter (remote) model 26 directional coupler, \$30. Yaesu FT 221 all mode 2M base station, \$250. Call Floyd, W6JSP, at 741-8391.

Hustler 4BTV 10-40M trap vertical antenna, Swan 1200Z linear amp w/extra set of tubes 80-15M w/schematic and instructions for conversion to 10M. Call Bill, WA6GLH, at 724-7901.

Must sell! Hy-Gain 18AVT 10m-80m vertical, cost \$360 new, sell for \$150. Nice condition. Call Ron 433-1006.

Tempo S-5 2m FM HT w/HM-5 mike, battery charger, and leather case, \$150. Call Don, W6FQV, at 728-1734.

Kenwood TS-820S, \$450; Drake MN-4 antenna tuner, \$75; Heath hybrid phone patch, \$25; Shure 444 mike, \$25; Palomar 300A 40-10m 600w p.e.p. linear amp, \$200; Call Phil, WF6L, at 757-7008.

Hy-Gain TH6DXX 6-elm tri-band beam, HD-73 rotor w/contl & 70' of contl cable. Never raced or used in contests. Call Bob, WA6GYG, at 941-2824.

Roll your own! All the makings for that full gallon you've always wanted. A 3-1000Z and a spare, air system socket and chimney, capacitors, tank coil, power supply components, the works. It's all here. Call Charlie, WB6ZJZ, at 758-3666.

WANTED

(Start houted men!)

Cubic-Swantenna Model M-45 mobile antenna. Will pay any reasonable price. Call Allen, N7AMR, at 434-5656.

2M inverter for Yaesu FLDX-400. Call Buck, KA0RGQ, at 941-0867.

Band switch for Gonset 201 linear amplifier. Call Ted, K6RF, 439-8562.

160M linear amplifier. ICom IC-22A in working condx and/or other xtal controlled solid state rig. Drake FS-4 frequency synthesizer. Call Dennis, N6KI, at 271-6079.

NUDE AND REGNUED MEMBERS

NEWED members are: Bill and Sandy Williams WA0ABX & WB0WGU, Escondido; Dick Powell, W6OML, Vista; Paul and Mary Dillinger, WF6K & KB6HWE, Escondido; Gerry Earl, N6LYX, Poway; John Long, Vista; and Steve McKinney, KB6ISU, Rancho Santa Fe. Welcome aboard. We're sure glad to have you with us.

REGNUED members are: Bill Vlymen, W6VDA; Chuck Inskeep, W6IRM; Guy Rowlett, KB6AI; and Don Dussault, W6FQV; Bill Bowen, N6FMK; Dave Copley, WA6HQM; and Nate Hassel, K2RTQ. Thanks for reenlisting early. Honest John, W6OLQ, sure appreciates us all not ganging up on him in July and August! Glad to have W6VDA back with us after many medical problems.

FROM THE ARRL LETTER

Hams get 24 MHz! In the 12M band, 24.890-24.990 MHz will be available to General, Advanced and Extra Class license holders effective 0001 UTC, June

22, 1985! Full power (1,500 watts P.E.P.) is authorized. 24.890 to 24.930 MHz is limited to CW and RTTY. From 24.930 to 24.990 MHz CW, phone, FAX, and SSTV will be permitted. On the 10 MHz band, 10.1-10.15 MHz), 200W P.E.P. output continues to be the limit, and CW and RTTY are the only modes allowed.

The FCC has issued a Report and Order that authorizes amateurs to use RTTY on 160M effective June 17. There are no specified sub-bands.

Latest call signs issued by the FCC as of April 1: WF6W, KG6QM, N6LVG, and KB6IIN.

AMATEUR LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination at any of the above locations must send a S.A.S.E. and a completed, signed, NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92041 ten days prior to the testing date. New 610s may be obtained from the FCC. Applicants must bring their original license and code certificate (if any) with them on the day of the exam. NO "walk-in" examinees accepted.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE:

Ham radio-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd in Manhattan Beach on the last Saturday of the month from 0800 to 1100. Talk-in is on 145.320 MHz simplex.

SURPLUS GOODIES at HIGHWAY COMPANY, 305 W. Wisconsin Ave., Oceanside. See ad in this issue. Aluminum, brass, copper stock at Escondido Sales yard, 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, NiCads at Industrial Liquidators, 4887 Convoy St., San Diego; and at Gateway Electronics at 4633 Convoy St.

IF YOU CAN'T SELL IT, or don't want to drive to TRW, the Club will be happy to take your surplus and sell it to enrich the Club's coffers. Contact Stan, W9FQN, or any other Club officer to make arrangements to unload your excess KWM-380 or TS-940.

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 MHz -600 kHz at 2000 local to handle formal written traffic. Visitors are welcome.

ZUM is doing it to us. The North County Traffic Net needs more members to effect toll-free message delivery. Let's have some new net members from far away places with strange sounding names. If you haven't tried traffic handling, please step forward and give us a hand. Let the NCS know that you'd like to be assigned to that night's net. DO IT! Net control stations and liaison stations are also needed. If you can help, contact Joe, WB6HMY.

JOINING OR REENLISTING IN THE ARRL? Do it via the PARC and the Club will get \$2 which would otherwise go to Gnuington (CT 06111, that is). Won't cost you a silly sou more than if you had rashly gone off on your own, either. Just make your check payable to the Palomar Amateur Radio Club and get it to "Treasurer John" care of the P.O. Box 1603 address in the masthead, or hand it to him at the next club meeting. The Tab is \$25 per year, two years for \$47, or three for \$65. John will jump for joy as he laughs all the way to the bank. If you're not an ARRL member, why not? Who else have you got lobbying for your hobby?

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday after the club meeting at various locations. Without fail, the meeting usually starts at 7:30 p.m. Club members are welcome to attend and observe - quietly and with a fitting sense of respect. The June meeting will take place at the home of WF6L.

AT THE MAY MEETING, which was held at the home of WF6L: The Committee voted to authorize RTTY & ASCII on the repeaters from 2100 to 2300 local each Sunday evening, commencing June 2, 1985. The possibility of providing space in the Club's building for a Packet Radio repeater was discussed and is being pursued with a San Diego County packet group. Paul, KB5MU, is acting as liaison between the two groups. A donation of \$5 from Bill Driml, W6NAT, via Ron, KF6ND, was reported. It was announced that hence forward the price of a subscription to the SCOPE would be \$3, reducing the membership cost to \$9.00 for additional family members. Expenditure of up to \$125 was authorized for Field Day expenses. Great coffee and goodies.

REPEATERS

TWO REPEATERS, both 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 the other is 444.425 MHz and the output is 449.425. The 450 MHz machine is often on tone squelch (PL 3A). They are both located on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Control operators: KB6AI, KB6DNR, W9FQN, K6HAV, WB6IQS, WA6KZN, K6ROR.

The two antennas on which the 2M repeater is now operating will be taken down and replaced with one or both of the Yagis donated to the Club by WESTCOM (Thanks to Merit, W6NLO). The old antennas will then be re-furbished and restored to active duty. Hopefully, this will all take place in the very near future as tower climbers become available.

Stan, W9FQN, is planning to reduce the temperature swings in the repeater building by insulating it with insulating board (the building is constructed of cement block). He would appreciate hearing from anyone having access to material of this type.

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in June: KD6FY, WA6DCO and WA6HYB. In July: K6LNJ. August: WB7OCR and K6ROR. If you want a reminder as to the expiration date of your amateur license, get it to us and we'll see that it is fed into the maw of the Gi'nt Computer. Form 610 is available to PARC members from the Club Secretary at club meetings or for a S.A.S.E. to the Club P.O. box. They are, of course, available from the FCC.

Thanks to Bill Vlymen, W6VDA, for taking the time to go in and see June Butler at the FCC office and get some 610 forms for the Club. Bill says that, according to June, license renewals may be submitted up to one year prior to expiration, but that 90 days prior is more realistic. New licenses issued now are taking about four weeks, according to local experience.

SICK CALL

Alex, WB6TQF, was in the hospital in mid-April for open heart surgery, according to John, WB6HSZ. Alex is out now and recovering nicely.

DOWN THE TOOBE

Congratulations to new member Steve McKinney, who has just received his new (first) call sign, KB6ISU. Jerry Earl is now N6LYX vice KB6IDZ.

Sure hope you all come out and operate, log, spectate, kibitz, our 1985 Field Day Effort. We're "going after 'em" again this year, but we will also have a dandy time together. Come see Bob, KA6HZF, do field repairs on balky generators. See the 20M gang set up their rotary rhombic, and observe Harry Field's (W6LKC) CCD antenna in actual operation on all bands as Felix, N6IE, welcomes all comers at 30wpm and up. Come visit or join in, but don't forget to sign the sign-in sheet and get another picnic ticket for your attendance. If you're going to operate, bring a copy of your license. Bring your camera and take some pics for us. It's easy to get there. Just step through the looking glass and follow the yellow brick road to the semi-detached reservoir (the bigger, squattier one) at Stan's (W9FQN) house. Stan has some things for kid to do too, bring them along.

Thanks to Jack, W6QP, and others, for their donation of filing cabinets for the Club's use. Maybe now we can start keeping some records to fill them. Many of our precious records are non-existent, a fact we are coming to grips with as Stan, W9FQN, starts to do battle with the TASMA group (a 2M repeater coordinating organization) over whether W6NWG/R is a coordinated repeater or not. The fact is that the volume of our missing records is only exceeded by those "lost" by TASMA in its short life.

Larry, KB6DNR, will bring a better sound system to future club meetings, to be used in lieu of the existing one. PLEASE NOTE.

The Del Mar Fair will be from June 20 to July 6. The PARC will assist in manning the SANDARC Booth at the Fair again this year from July 3 to July 5. Make your availability known to Stan, W9FQN; Larry, KB6DNR; or Paul, KB5MU. Entrance to the Fair is free to watch-standers, sign up NOW!

Thanks to Bill, W6VDA, for the wattmeter and monitorscope he has donated to the Club. Now, all we need is for someone to pick it up from him and get it to Stan, W9FQN for the silent auction.

PLEASE NOTICE. It's time to renew your club membership. In this issue is a membership application/renewal form. If you haven't already sent in your \$12, do it now, and use the form. DO IT!

George, K6YGK, sends a clipping on an accident which was reported on W6NWG/R by a ham traveling through the area. The handling of the incident, which occurred during a Tuesday evening NCTN session was lauded by the reporting station, KF6MX of Mission Viejo. Let's keep up the assistance, we've been doing a good job of it!

ARRL FIELD DAY CONTEST - 1985

The PARC will participate in the 1985 Field Day Contest, operating in Class 4a (four transmitters), attempting to operate all permissible bands from 160M to 450 MHz, using the Club's call sign, W6NWG.

DATE/TIME: The contest starts at 1800 UTC (1100 local) on Saturday, 22 June; ending 24 hours later at 1800 UTC Sunday, 23 June. We will commence setting up no earlier than 1800 UTC on Friday, 21 June.

LOCATION: Our 1985 Field Day site will be that of last year, out Circle R Drive 3.2 miles from the Gopher Canyon/Circle R off-ramp from I-15 (see sketch map). The site is the fenced in area of a large Valley Center Water District reservoir, across the road from W9FQN's QTH.

FOOD AND DRINK: The Club WILL provide sandwiches and coffee Saturday evening, but other than that, food will NOT be a Club responsibility. Provide your own food, drink, utensils, and trash containers.

CHIEF OPERATORS (CHOPS): Are responsible for providing, setting up and manning (people-ing) their stations.

CHIEF OPERATORS ARE:

160M N6INN 75M K6HAV 40M W9FQN CW N6IE
20M KZ6X 15M W9FQN VHF/UHF K6GJD PACKET KB5MU

POWER: The Club generator and others will be used. A.C. lines from generator to each operating position are the responsibility of each Chief Op. The Club will provide oil and gas for any generator in use at the Club FD site. We may also have photo-voltaic panels for generation of electricity for at least five contacts. Battery operation is desirable when possible to help regulation and to eliminate RF on AC lines.

RFI: The Club will provide brute force A.C. line filters, and possibly band pass filters for each HF station. Each HF station will operate with a low pass filter (to eliminate RFI to the VHF/UHF station) and an antenna tuner in an attempt to further reduce mutual RFI.

OPERATING PLAN: The 40M, 20M, CW, & VHF/UHF stations will operate around the clock. The 15M station will operate during daylight hours, and will alternate with the VHF/UHF station. The 75/160M station will operate at night, alternating with the VHF/UHF station. The CW station will operate on all bands. A packet radio station will operate as long as contacts are available, but will not count against the 4-transmitter total.

SUMMARIZED:

DAYTIME	NIGHTTIME
40M	40M
20M	20M
15M	75M
CW ALL-BAND	CW ALL-BAND
VHF/UHF & 15M ALTERNATING	VHF/UHF & 75M/160M ALTERNATING

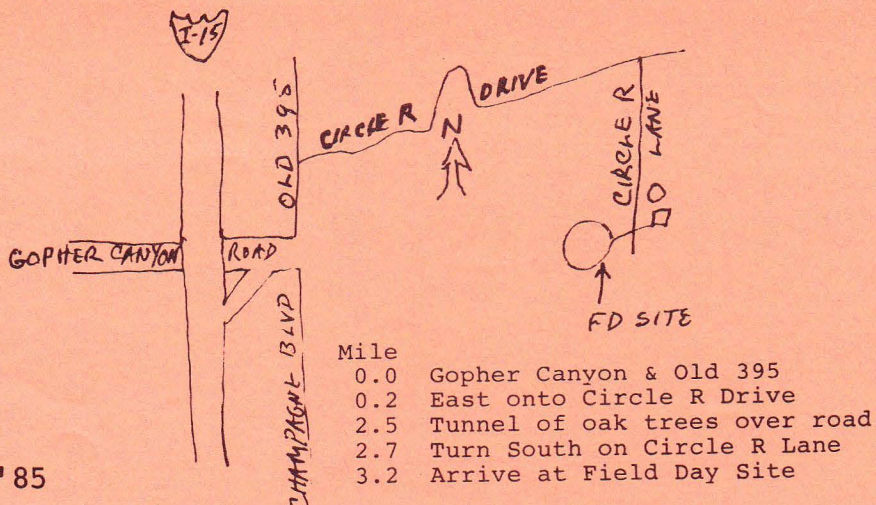
OTHER INFORMATION:

a. Coordination is required in the operation of alternating stations. (See General Operating Plan, above.) Chief Ops concerned will effect the required coordination prior to putting their station on the air.

b. The Club will provide ARRL Dupe Sheets, log sheets, and a copy of the 1985 Field Day Rules for each position.

c. The Club Secretary will provide a sign-in sheet.

d. All logs and dupe sheets will be turned over to the Field Day Chairman, K6HAV, not later than July 7th.



PALOMAR AMATEUR RADIO CLUB

MEMBERSHIP

1985 MEMBERSHIP APPLICATION

Name(print).....Call.....
 Confid(Y/N)
 Address.....Phone.....
 City.....State.....ZIP.....
 Class of license.....Expires.....
 Years licensed..... ARRL Member Yes/NO Expires.....
 Family Member Name(s).....Class.....Call.....
Class.....Call.....
Class.....Call.....

Computer equipment

Bands you use(circle) 80 40 30 20 15 10 6 2 220 450 Oscar
 (circle)80-10 CW-SSB-FM-AM, 2M AM-SSB-FM-CW, 220....., 450.....

Please indicate your full or part time interest in the following activities. Circle those you have great interest in and line out those with no interest. What is left you have some interest in.

Swap Meets, Field Day, Our 2M repeater, Our 450 repeater, ATV, RTTY, Packet, CW, Computer CW, HTs, Traffic nets, Emergency Communications (AREC, RACES), Antenna design, Theory class (Novice, Tech, General, Advanced, Extra), Code class (5, 13, 20 words/minute), Contests, Dx, Computers, Public service communications, Red Flag fire patrols,

Membership Category(+Newsletter)

Please make checks payable to the PALOMAR ARC and send to:

.....Full Member \$12.00*

PALOMAR ARC

.....Associate Member \$12.00**

P.O.Box 1603

VISTA, CA 92083-0530

.....Family member \$ 9.00

**Non-voting

.....Newsletter \$ 3.00**

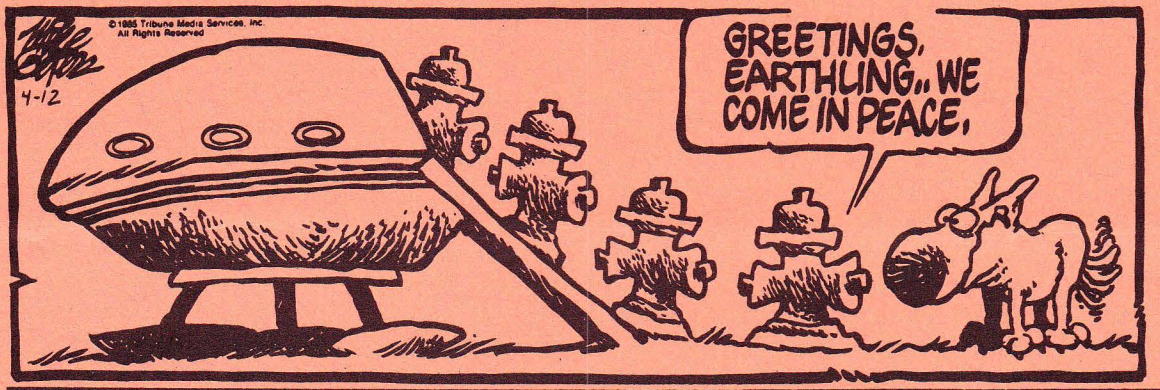
SUPPORT AMATEUR RADIO

*The membership year runs from August 1st to July 31st and dues are prorated at \$1/month (not for renewals) for new members. Renewals should be paid in July to receive the August NEWSLETTER.

Applicants/renewals may add comments/suggestions to the back of this form.

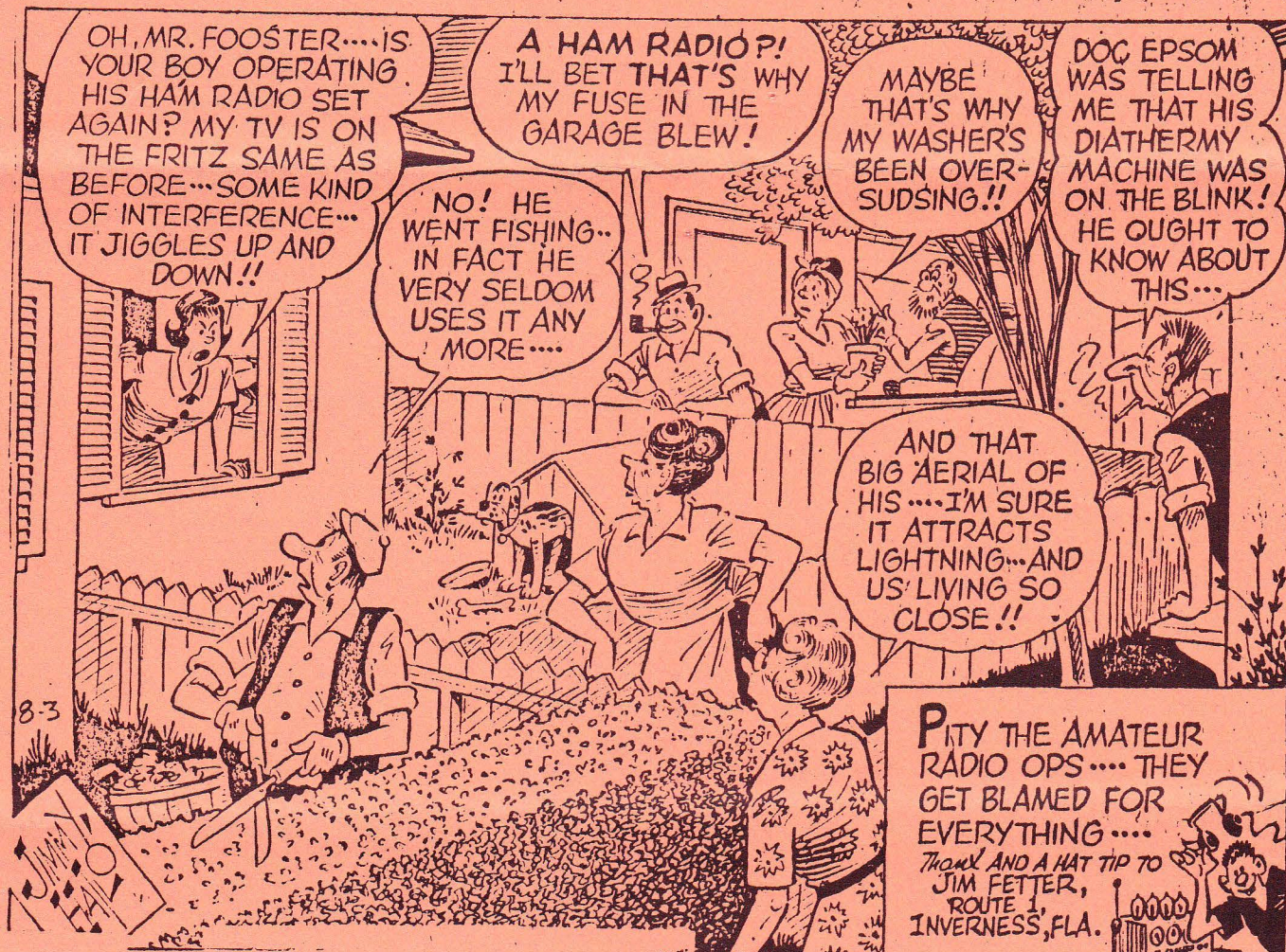
Ames, Russ	KG6GW	Evans, Lee	WB7OCR	Lenci, Andrew	WA6QQW	Ross, Ed	N6GZI
Bartels, Harold	W6UUI	Fahnestock, Albert	N6GNB	Leonelli, Phil	WF6L	Rouse, Harry A.	WB6JVS
Baumsartner, Vern	W6HW	Fahnestock, Mickey	N6GWJ	Levesque, Will	W2FWV	Rowlett, Guy	KB6AI
Belfield, Scott	KD6FY	Faughn, Jim	WD6ENK	Lewin, A. A.	WA7BIA	Rustin, Charles	W6JLW
Botieff, Dave	N6JTT	Fay, Charlie	KE6QV	Lien, David A.	W6OVF	SD Mtn Res Team	W6TET/WB6OIX
Bourhenne, Alma	KE6HI	Felton, Bob	K7WLX	Lincoln, Warren	W6EYP	Salter, Bill	K6GJD
Bowen, Bill	N6FMK	Ferranto, Felix	N6IE	Litchman, Tom	N6LEZ	Sandberg, Sandy	K6HE
Breyer, H. D.	WB6NIG	Folsom, Russ	N6GJW	Long, John K.	ASSOC.	Schutze, Phil	K6ROR
Broadbent, Louis	N6CKQ	Forbes, Jack	W6QP	Lover, Stan	K7BHI	Seaman, Larry	W6LCT
Brouillet, Paul	WD6BRX	Garlow, Britt	W6PEU	Mandy, Bill	W6NFG	Shaut, Stanley	W2AUO
Browner, Bob	WA6JCG	Garner, RAY	WA6LUX	Martin, Alan	WA6SGK	Shifflet, Wm. C.	KB6BIL
Buckner, Bill	KA6RGQ	Gates, Bob	WB6TBA	Martin, John	W6SE	Sieber, Joan	N6KIM
Buckner, Mary	KB6HCH	Gibbs, Charley	WB6ZJZ	Martin, Harry	WB6REF	Skinner, Muriel 'Skip'	K6BPT
Burdette, Sam	W6YYV	Gird, Dick	K6PZE	Mattison, Clarke	K7HOE	Smith, Art	W6INI
Burton, Doc	KA6DWU	Glaser, Peter	W6OKG	Maxson, Roy	W6DEY	Smith, Marvin	N6NA
Buscema, Paul	KZ6X	Goepfender, Albert	W6FXL	Mayes, Pete	WB6OBH	Smith, George	KB6MI
Calvert, Chuck	KA6GRG	Golden, Chuck	WB6YVT	Maynard, George	K6RTD	Specht, Ernie	WA7AMS
Campbell, John	WB6HSZ	Gonsett, Bob	WA6QQQ	McBride, Willert 'Mac'	WB6GXR	Stedman, Duane	WB6R
Cassel, Alan	N0AL	Gonsett, Judy	WD6BEZ	McCann, Jack	KD6ZO	Stiggall, Frank	N6FGE
Cassen, Frank	N6AT	Good, Gene	KB6GYG	McCord, Billy	WB6TBQ	Stovall, Herb	W6FET
Castagna, Ed	WA6ESG	Griffin, Ron	W6KUQ	McCormick, Matt	KA6QFF	Swader, John B.	WA6DYV
Chambers, Bob	NC6J	Guthrie, Tom	K2QGT	McCoy, Donald C.	KG6FK	Taylor, Wm. H.	K6TQ
Chambless, Burr	WA6UYD	Halyburton, Alex	WB6TQF	McKinney, Stephen B.	KB6ISU	Tantor, John	W6DLO
Chambless Jr., Burr	WB6UYC	Hammond, Brian	WA6MXM	McLaren, David	WB6NIJ	Tipton, Frank	WA6HPP
Chase, Herbert E.	W6IPQ	Hammond, John	WB6MEI	McManisler, Jim	KH6VO	Trimmer, Ted S.	K6BPP
Chico, Earl	K6MXM	Hammond, Randy	WA6OAR	Miller, Raymond	N6EQB	Tuttle, Dora	KE7DR
Christman, James	KA4DRX	Harker, Harland 'Hark'	WB6WGT	Mitchell, Ted	N6IES	Tuttle, George	ASSOC.
Church, Jim	K6SLA	Harvey, Floyd	W6JSF	Moore, Wade	KE6XF	Umski, George	K6YCK
Cook, Rita	N6FSQ	Harvey, Vanessa	WB6BHE	Myers, Jeff	N6GRB	Vernacchia, Dennis	N6KI
Copley, Dave	WA6HQM	Hassell, Nathaniel W.	K2RTQ	Nichols, Art	W6EVL	Vlymen, Bill	W6VDA
Cornell Jr., Marty	K6NS	Hawkins, James T.	WA3WOO	Nichols, Edith	K6AYJ	Wallace, Carl	WD6B
Countrman, Bill	KE6BH	Hay, Dick	W1LE	Nida, Ted H.	KB6FMJ	Walsh, John	ASSOC.
Coup, Bob	W6BXJ	Healey, Thomas	N6DSX	Pakus, Paul J.	N6KWC	Wandschneider, Herb	WA6SVN
Craik, Robert B.	WA6GYG	Healey, Wilma	N6DSU	Patchel, Herbert	WA6IWK	Watson, Jerry	W9KEX
Crispell, Hal	W6TZV	Heisman, Paul	KA6PPD	Patchel, Judith	KA6GHE	Watt, Bill	WA6HYC
Crossman, Pat	N6INN	Heitger, Bob	WA6KZN	Patchel Sr, Herbert	KD6WX	Way, Ed	WA6EYX
Crossman, Ralph	K6HAV	Hodgson, Charles I.	W6HC	Paul, Floyd	W6THU	West, Richard O.	W6ILG
Crumpton, Dee	N6ELP	Hoover, Robert S.	KA6HZF	Pearce, Art	K6LNJ	Whipple, Bill	N6COU
Cullian, Ted	K6RF	Horsan, John	WB6SML	Piraino, Emil	K6BOM	White, Jack	W6SMP
Cunningham, William	N6GSS	Horrell, Gene	K6PP	Poole, Barry	N6ENI	Wilhelmy, Ron	KF6ND
Davis, Michael	KG6FD	Horrell, Maurice	KB6QF	Pottbers, Gene	W6THS	Willett, Allen	N7AMR
De Montesre, Larry	KB6DNR	Hunt, Lloyd	W6TFB	Powell, Richard	W6OML	Williams, Bill	WA6ABX
De Plomb, Eugene	NZ6G	Hutchins, Frank	N6LGP	Priest, Bill	W6WPO	Williams, Sandy	WB6WGU
Dealy Jr., Bill	KB7TD	Inskeep, Chuck	W6IRM	Prior, Bob	KF6XW	Williams, Jack	W6BLL
Dempsey, Ralph	N6DVL	Janssen, Hal	W6DOL	Push, D. C.	WA6HYB	Williams, Nash	W6HCD
Denton, William H.	N6GZ	Jenkins, Mickey	WA6WQI	Ramme, Frank	WB6HFE	Williams, Richard	WA6QBO
Dillinger, Paul	WF6K	Johnson, Don	WD6FWE	Reber, John	N6BAD	Williamson, Paul T.	KB5MU
Dillinger, Mary	KB6HWE	Kavan, Mrs. Edith	ASSOC.	Reed, Geneen	KB6HIA	Willis, Lee	N6KCK
Divecchio, Mark	K3FWT	Kilian, Richard	WA6DCO	Reed, Rod	N6LVN	Wilson, Wesley	WA6UGG
Dobler, Ray	W6BHF	Kimball, Chuck	KD6ZA	Rice, Rob	KS6S	Wittins, Martin J.	W9GNI
Dorey, Paul	WA6EJL	Kirkpatrick, Claude L.	W6DWE	Rice, Jane	AD6Z	Wolfe, Emily	WA6ZKC
Douglas, Malcolm	N6CDA	Krebs, Russ	W6HZJ	Rideout, Art	WA6IPD	Wolfe, Stan	WA6ZKD
Dussault, Don	W6FQV	Krusen, Don	KD6PP	Rissen, Judith	KA6YJH	Wong, Dennis	N6KVV
Earl, Gerald R.	N6LYX	Kuivinen, John	WB6IQS	Riseley, Jim	WB6LEH	Young, Fred	W6UAP
Elder, Chet	W6KRH	LaPointe, Joe	WB6HMY	Rivera, Bob	WA6NNC	Young, Ken	NF6T
Enders, Marlin	ASSOC.	Leak, Earl	K6CLU	Rohrer, Barbara	KA6FFS	Zusack, Mike	KA8OUD
Esterly Jr, Harold D.	K6GQS	Lee, Gayle	AK6Z	Rohrer, Stan	W9FQN		

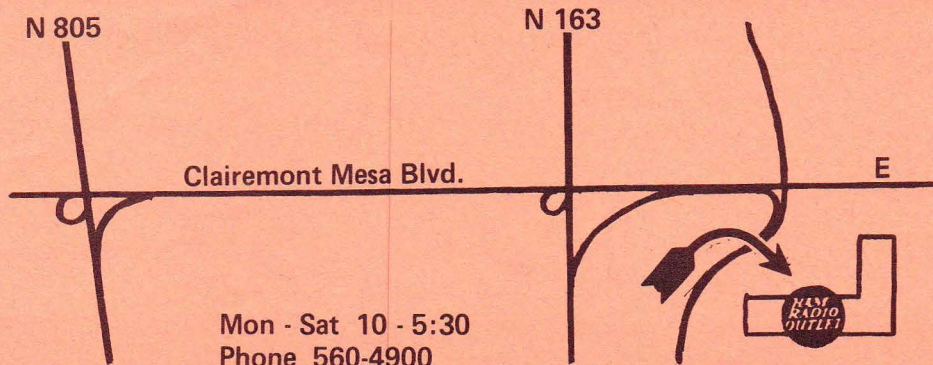
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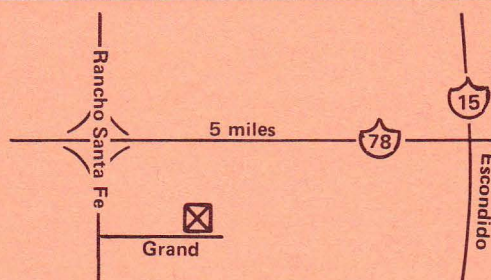
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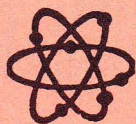
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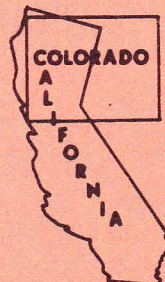


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W6NWG

Scope

VOL. XX, NO. 7

1936 - 1985

JULY, 1985

PRESIDENT: Stan Rohrer, W9FQN, Valley Center
 VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista
 SECRETARY: Phil Leonelli, WF6L, Oceanside
 TREASURER: John Tentor, W6OLQ, San Diego

---PRESIDENT'S MESSAGE---

Back in the Spring of 1973 we requested frequency coordination for our 2M repeater, W6NWG (Nothing Works Good), on 146.13-.73 from SCRA, the Southern California Repeater Association. Several days ago we finally received this coordination through TASMA, the Two Meter Area Spectrum Management Association, dated June 1, 1985!! TASMA indicates that we first applied in May of 1975, but in digging through what files we could find, we discovered an application filled out by Roy Maxson, W6DEY, completed sometime prior to June, 1973.

The PARC, during the past 12 years, has been treated by SCRA, and now TASMA, as though we were coordinated, but the present TASMA organization cannot find any record of coordination papers being issued to us. If any of our older distinguished members remembers anything about coordination papers, or has any of the Club's papers tucked away at home, please bring them, or the memory of what took place in 1973-75, to the next club meeting. We have searched all present club records and can find only a scattering of club correspondence for this period. The Club would be happier with coordination papers dated 1973 or 1975 rather than 1985!

Going through all the old SCOPES and dusty correspondence reminds me again that 1936 is when the Club was founded. Next year we will be celebrating our FIFTIETH anniversary. If you have any ideas as to how we should celebrate our 50th anniversary, please contact me at the next club meeting.

73 de Stan, W9FQN

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first member and \$9.00 for each subsequent family member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: PARC, P.O. Box 1603, Vista, CA 92083-0530.

SCOPE MATERIAL: News items and ads to Ralph Crossman, K6HAV, P.O. Box 73, Vista, CA 92083 by Wednesday two weeks before the club meeting.

TWO REPEATERS, both 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 the other is 444.425 MHz and the output is 449.425. The 450 MHz machine is often on tone squelch (PL 3A). They are both located on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Control operators: KB6AI, KB6DNR, W9FQN, K6HAV, WB6IQS, WA6KZN, K6ROR.

OFFICIAL CLUB BADGES: Available from the club Treasurer - for a price!

CLUB MEETINGS

WHEN AND WHERE? On the first Wednesday of the month at 7:30 p.m. in the Community Room of Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista. Visitors welcome.

AT THE JULY MEETING: Carl and Leona Wallace, WD6B & WA6OHB, will give an illustrated talk on their recent visit to Pitcairn Island and their stay with some of the descendants of the Bounty mutineers. The Wallaces have a very interesting story to tell, and we're sure you'll be informed and entertained. Come early and stay late!

SHOW AND TELL: If you have something of note, bring it along and let us all see it.

SILENT AUCTION: An unfinished antenna tuner, a 12VDC power supply and

the usual batch of goodies in the parts department..

AT THE JUNE CLUB MEETING: Bob Gonsett, WA6QQQ; Steve Cilurzo, KA6YBC; and Jerry Gastil, K6DYD; conducted a frequency and deviation clinic for club members. Some of us got our receivers calibrated too so that we can tell how many micro-volts of signal we are receiving. A very interesting evening with lots of new faces (and old ones too - Bill Countryman, KE6BH for instance)!

Thanks to Vina de Montegre for the fine coffee and wonderful chocolate chip no-cal goodies. Tasty delights were also brought by Mac, WB6GXR; Ron, WI6B (made by his XYL); and Chuck, WD6FXW. Thanks so much. They were deeeelightful!

FORESAIL

(If you think that's a jib, you're not mizzen the punt!)

Swan 1040-V w/75M add-on kit 10-75M trap vertical antenna, \$50. Call Earl, K6CLU, at 724-2827.

Atari 1027 80 column letter quality printer w/one 200' roll of paper. Like new. Heath 5" oscilloscope IO-12 in mint condx. Call Harold, W6UUJ, at 726-2616.

Epson MX-80 printer w/RS-232C interface and Graftrax built in, new condx, \$295. Call Stan, K7BHI, at 728-2668.

Kenwood 2500 HT w/MS-1 charger and SMC speaker mike, all for \$250; Bencher key, chrome model, never used, \$30; Kenwood SW-2000 swr/pwr meter w/SW-3 coupler, never used, \$75; Cubic-Swan M-34 mobile antenna for 40-10M, new, \$60. Call Allen, N7AMR, at 434-5656.

Yaesu FT225RD 2M all mode base xcvr for 12VDC, 117 or 234VAC. 25W on SSB, FM, and CW. Vox, semi-break-in CW w/sidetone, noise blanker, discriminator meter and offset clarifier for tx/rx, digital and analog frequency readout, programmable tone burst. Never raced. Not equipped with coffee grinder. Call Felix, N6IE, at 724-4772.

Swan SS-200A 200W PEP solid state SSB/CW HF 12vdc xcvr, \$300; ICom IC-30 xtal contl 450 mHz FM xcvr, \$100. Call Ralph, K6HAV, 727-5866.

Gonset GSB-201 80-10M linear amplifier - uses four 572-Bs. In good condx and working on 20M, but needs new band switch for the other bands. As is for \$175. Call Ted, K6RF, at 439-8562.

Yaesu FC-301 500W antenna tuner, 10-160M w/four antenna positions, in new condx, \$80. Call Don, KD6PP, at 728-6098.

Hallicrafters FPM-300 10-80M xcvr w/mic \$165; Bandmaster Deluxe 80-2M xmtr, \$40. Call Alan, KF6EU, at 728-4106.

Kenwood TR-8400 10W 440 mHz FM xcvr. Call Phil, K6ROR, at 724-0098.

Swan 500CX SSB HF xcvr, modified in 1983, w/117CX pwr supply; Swan phone patch; TH-33 Jr. beam; CDE rotor; coax; 40' (4 10' sections) tower. Must sell, make an offer. Call Harry Parker, W6ASQ, at 728-8236.

Palomar Engineers Interface CI-103, Kantronics Hamsoft for Vic-20. Like new. Call Harrison, WB6NIG, at 724-4773.

Tri-ex HM-354 self-standing crank-up 54' tower w/new HD-73 rotor and Hy-Gain tri-band quad. Call Jack, W6QP, 724-3341 for his special price.

Dentron Junior Monitor antenna tuner, \$30; Micro-Craft Morse-A Word, \$35; Kenwood PC-1 fone patch, \$35; Hunter 2kw swr bridge model 25 w/pwr meter (remote) model 26 directional coupler, \$30. Yaesu FT 221 all mode 2M base station, \$250. Call Floyd, W6JSP, at 741-8391.

Hustler 4BTV 10-40M trap vertical antenna, Swan 1200Z linear amp w/extra set of tubes 80-15M w/schematic and instructions for conversion to 10M. Call Bill, WA6GLH, at 724-7901.

Must sell! Hy-Gain 18AVT 10m-80m vertical, cost \$360 new, sell for \$150. Nice condition. Call Ron 433-1006.

Hy-Gain TH6DXX 6-elm tri-band beam, HD-73 rotor w/contl & 70' of contl cable. Never raced or used in contests. Call Bob, WA6GYG, at 941-2824.

Roll your own! All the makings for that full gallon you've always wanted. A 3-1000Z and a spare, air system socket and chimney, capacitors, tank coil, power supply components, the works. It's all here. Call Charlie, WB6ZJZ, at 758-3666.

WANTED

(Start houted men!)

One filing cabinet for use by the club treasurer. The one previously donated for that purpose is being used by the Repeater Committee. The Club also needs some glass or rock wool batting-type insulation for the roof of the repeater building. The repeater building also needs a coat of paint of the green or brown persuasion. It's about 10'x10'x8'. Also wanted for the repeater is a mouse-proof metal box for storage of repeater technical papers in the repeater building. Call Stan, W9FQN, at 749-0276. Stan's also looking for a simple VOX unit to permit tape recorder monitoring of the repeater.

Drake 2B rx. Must be mint condx and cheap, cheep, cheep! J-38 hand key in mint condx. Have money, will travel. Call Dan, WA6HYB, at 443-4445.

Cubic-Swan antenna Model M-45 mobile antenna. Will pay any reasonable price. Call Allen, N7AMR, at 434-5656.

2M inverter for Yaesu FLDX-400. Call Buck, KA0RGQ, at 941-0867.

Band switch for Gonset 201 linear amplifier. Call Ted, K6RF, 439-8562.

160M linear amplifier. ICom IC-22A in working condx and/or other xtal controlled solid state rig. Drake FS-4 frequency synthesizer. Call Dennis, N6KI, at 271-6079.

PICNIC! PICKNICK! PLOUENIQUE! PEEKNEEK! PEAKNEAK! PAIKNAIK! PICNIC!

The PARC's annual picnic will be held on Sunday, August 25, in San Dieguito Park on Lomas Santa Fe Drive east of I-5 in Lomas Santa Fe. The park opens at 0930 and lunch will be a pot-luck served at 1200. Those with last names beginning with A-L bring a salad; those with M-Z a casserole. Bring enough to feed about six. The site is area 1, that of last year. The prize drawing will be held after lunch.

Tickets for the drawing are based on attendance at club functions, with one ticket being given for joining or rejoining the Club. Tickets will be handed out by the Secretary at the August meeting. Tickets will not be mailed unless you provide the Club with a S.A.S.E. Tickets may be picked up for you if the person doing so has a note from you. You do not have to be present at the picnic to win. Your ticket(s) may be put in the hopper by your agent. The Club will not act as your agent.

SURVIVORS' COMMITTEE

The Club is available to help the survivors of Silent Keys in the dismantling of the radio station and the disposal of the equipment. The Survivors' Committee is an ad hoc committee, formed of club members who are known to the survivors; and such others as are needed to disassemble the station and antennas; and price, advertise, and sell them to the best advantage and according to the wishes of the survivor. Contact Stan, W9FQN, if you have any questions or if assistance is needed. The Club does, by letter of condolence, contact each surviving spouse; and makes the availability of the Club's assistance known. This is not a new club function, but one which we have been doing for some time.

NUDE AND REGNUED MEMBERS

NEWED members are: Leonard Alu, WB6NPI, Vista; Leroy Rice, N6FYI, Vista; Ed Null, WB6WQI, Vista; Fred Olsen, W6PNT, San Diego; Benton Caldwell, KB6JAN, Carlsbad; Chuck Saunders, KG6TD, San Diego; Tom Gatlin, N6KHF, Vista; Betty Mahoney, KB6DGR, Chula Vista.

REGNUED members are: Bob & Judy Gonsett, WA6QQQ & WD6BEZ; Bob Browne, WA6JCG; Earl Leak, K6CLU; George Smith, KB6MI; Dick Gird, K6PZE; Hal Crispell, W6TZV; Ivan Simpson, W6TET & WB6OIX (SD Mountain Rescue Team); Marv Smith, N6NA; Lloyd Hunt, W6TFB; Clarke Mattson, K7HOE; Felix Ferranto, N6IE (exp. date 7/90!!); Alex Hayburton, WB6TQF; Bob Chambers, NC6J; Bob Heitger, WA6ZKN; Hark Harker, WB6WGT; Gorge Uminski, K6YGK; Bill McCord, WB6TBQ; Gene Horrall, K6PP; Dave McLaren, WB6NIJ; Jack Swader, WA6DYV; Ralph & Pat Crossman, K6HAV & N6INN; Tom Guthrie, K2QGT; Bill Watt, WA6HYC; Herb Stovall, W6FET; Doc Burton, KA6DWU; Charles Rustin W6JLW; Ray Garner, WA6LUX; Dan Pugh, WA6HYB; Bill Mandy, W6NFG; Phil Leonelli, WF6L; Al & Mickey Fahnstock, N6GNB & N6GWJ; Mark DiVecchio, K3FWT; Ed Ross, N6GZI; Art Pierce, K6LNU; Chuck Calvert, KA6GRG; Sandy Sandberg, K6HE; Ray Dobler, W6BHE; Ron Wilhelmy, WI6B; Bert Chase, W6IPQ; Nash Williams, W6HCD; Russ Krebs, W6HZJ; Russ Folsom, N6GJW; Art Rideout, WA6IPD; Burr & Burr Jr. Chambless, WA6VYD & WB6VYC; Will Levesque, W2FWV; Floyd Paul, W6THU; Bill Denton, NG6Z; Dick Hay, W1LE; Lou Broadbent, N6CKQ; Dennis Wong, N6KVY; Bob Felton, K7WLX; Floyd & Vanessa Harvey, W6JSP & WB6BHE; Dennis Vernacchia, N6KI; Harry Rouse, WB6JVS; Bill Countryman, KE6BH; Barry Poole, N6ENI; Jim Risely, WB6LEH; Sam Burdette, W6YYV; Maurey Horrell, KB6QF; Wade Moore, KE6XF; Stan & Barbara Rohrer, W9FQN & KA6FPS; Paul Heismann, KA6PPD; Scott Belfield, KD6FY; Jeff Myers, N6GRB; Joe LaPointe, WB6HMY; Dick West, W6IUG; Jerry Watson, W9KEX; Paul Williamson, KB5MU; Charles Hodgson, W6HC; Britt, Garlow, W6PEU; Herb & Judy Patchell, WA6IWK & KA6GHE; Bill Taylor, K6TQ; Marty Witting, W9GNI; Al Cassell, N0AL; Charles Kimball, KD6ZA; Stan Shaut, W2AUO; Jack Forbes, W6QP; Hal Esterly, K6GQS; Bob Craik, WA6GYG; Art Smith, W6INI; Jack White, W6SMP; Vern Baumgartner, W6HW (even though he's paid up forever!).

GNU CALL: Ron Wilhelmy, WI6B from KF6ND.

FROM THE ARRL LETTER

The launch date of Shuttle flight 51-F has been changed to July 12 at 4:30 p.m. EDT (2030 UTC). Tony England, W0ORE, advises that, at 5 wpm, W0ORE/CHALLENGER takes too long to send. It will be sent at 15 wpm when automatic slow-scan TV pics are being sent. Manned operation of W0ORE aboard the Shuttle will include voice ID.

The NASA/JPL ARC plans two outlets for retransmitted space shuttle audio. Both serve the metropolitan L.A./Pasadena area. They are on 224.040 MHz FM and 145.460 MHz.

Latest call signs issued as of May 1: WG6J, KG6TC, N6LYA, and KB6IRC.

ARRL affiliated clubs will receive \$5 for each new (not a member after 1979) ARRL member recruited. In addition to the \$5/new member the clubs will receive, the clubs getting the most new ARRL members will receive a beautiful new ICom IC-735, Heath HW-5400, or Kenwood TS-430-S, donated by

their manufacturers.

Don Wallace, W6AM, "Mr. DX" became a silent key on May 25 at age 86. He was noted for the DX he worked and for the rhombic farm on Palos Verdes Peninsula.

GEORGE TUTTLE PASSES AWAY

We are saddened to report the passing of Associate Member George Tuttle, OM of Dora, KE7DR, in late May. George was totally incapacitated from a stroke, and while his passing was a shock, it was expected. Our condolences to Dora on the loss of her life-long companion. A gentle person is gone.

AMATEUR LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon and at the North County Blind Activity Center, 250 E. Grand Ave., Escondido, both on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination at any of the above locations must send a S.A.S.E. and a completed, signed, NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92041 ten days prior to the testing date. New 610s may be obtained from the FCC. Applicants must bring their original license and code certificate (if any) with them on the day of the exam. NO "walk-in" examinees accepted.

ELECTRONICALLY ORIENTED FLEA MARTS ARE:

Ham radio-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd in Manhattan Beach on the last Saturday of the month from 0800 to 1100. Talk-in is on 145.320 MHz simplex.

SURPLUS GOODIES at HIGHWAY COMPANY, 305 W. Wisconsin Ave., Oceanside. See ad in this issue. Aluminum, brass, copper stock at Escondido Sales yard, 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, NiCads at Industrial Liquidators, 4887 Convoy St., San Diego; and at Gateway Electronics at 4633 Convoy St.

IF YOU CAN'T SELL IT, or don't want to drive to TRW, the Club will be happy to take your surplus and sell it to enrich the Club's coffers. Contact Stan, W9FQN, or any other Club officer to make arrangements to unload your excess KVM-380 or TS-940.

THE CLUB'S POLICY ON JAMMERS is to ignore them completely (even though some otherwise good club members do not) since recognition is what they are seeking. Recognition of any sort spurs them on to greater efforts so please ignore them and carry on your QSO or sign off, whichever suits you. Listen on the repeater input and attempt to hear the jammer and to locate the source of the interfering signal.

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 MHz -600 kHz at 2000 local to handle formal written traffic. Visitors are welcome.

ZUM is doing it to us. The North County Traffic Net needs more members to effect toll-free message delivery. Let's have some new net members from far away places with strange sounding names. If you haven't tried traffic handling, please step forward and give us a hand.

JOINING OR REENLISTING IN THE ARRL? Do it via the PARC and the Club will get \$2 which would otherwise go to Gnuington (CT 06111, that is). Won't cost you a silly sou more than if you had rashly gone off on your own, either. Just make your check payable to the Palomar Amateur Radio Club and get it to "Treasurer John" care of the P.O. Box 1603 address in the masthead, or hand it to him at the next club meeting. The Tab is \$25 per year, two years for \$47, or three for \$65. John will jump for joy as he laughs all the way to the bank. If you're not an ARRL member, why not? Who else have you got lobbying for your hobby?

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday after the club meeting at various locations. Without fail, the meeting usually starts at 7:30 p.m. Club members are welcome to attend and observe - quietly and with a fitting sense of respect. The July meeting will take place at the home of WF6L.

AT THE JUNE MEETING, which was held at the home of WF6L: The Committee voted to spend up to \$500 on picnic prizes, an increase of \$100 from last year. W9FQN reported on problems in his dealings with TASMA; and on attempts to secure resolution of the continuing problem with the strong

signal from K0JPK/R into W6NWG/R's coverage area. The Committee thanked Bill Vlymen, W6VDA, for his donation of a monitor scope and a power/SWR meter. W9FQN still needs operators for the booth at the Del Mar Fair on July 3, 4, and 5. The Committee approved the installation of a sub-audible tone encoder on the 2M repeater to permit those perpetually bothered by K0JPK to eliminate the necessity to listen to it while monitoring W6NWG/R by the use of tone decoders at the listening station. Tests will be conducted when TASMA approval is obtained. A grand time was had by all, and the coffee and cookies were greaaat.

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in July: K6LNJ. August: WB7OCR and K6ROR. October: K6PZE. If you want a reminder as to the expiration date of your amateur license, get it to us and we'll see that it is fed into the maw of the Gi'nt Computer. Form 610 is available to PARC members from the Club Secretary at club meetings or for a S.A.S.E. to the Club P.O. box. They are, of course, available from the FCC.

SICK CALL

Al, N6GNB, is sitting pretty (carefully) after some minor surgery. Phil, K6ROR, spent the wee (and other) morning hours in emergency with a stone problem. They said it too would pass and sent him home. And they were right.

RADIO TELETYPE

By Dee Crumpton, N6ELP

What mode of Amateur Radiio communications is found on all bands (except 6M), may be used by all classes of licensees, except Novices and gets the 'mail' through as well as CW and much better than voice??? If you answered RTTY, you were right. If you also knew that RTTY is better than voice and CW for emergency traffic because of its inherent capabilities of storage on tape or cassette and hard copy, you get a gold star for the quiz.

Having been newly appointed as Assistant Director to ARRL and being involved with ARES, RACES, Animal Rescue Reserves and other PR radio activities, and publishing and editing an RTTY magazine (RTTY JOURNAL ed.) puts me in touch with, not only RTTYers, but Amateurs interested in emergency service procedures and problems.

If, as we are told, California does experience a major catastrophe in the next few years, what will the Amateurs use for communications? Voice?? Sure, where we can. How about the scenario of: "8.5 earthquake, dams broken, all fire, police, military, hospitals taxed to the hilt?" Will Amateur Radio, via voice, be able to handle the many problems that they will be asked to handle? I don't think so. If, however, you add the many capabilities of RTTY, the scenario is changed.

Now, we have the possibility of utilizing AMTOR and its hand-shaking verification method of communications that sends three characters and gets a 'verification' back of their correct receipt. Where a dotted "i" and crossed "t" is essential, AMTOR is great. Where large quantities of messages need to be handled quickly, Packet is dependable and capable of moving hundreds of messages where phone would be able to handle only a few in the same period. RTTY has the ability to get through when voice cannot. It also provides hard copy and is hard to beat for written messages. Combine a computer (most will do), with some inexpensive software (some RTTY programs are in the public domain), a printer (can be had for less than \$50 if you are not fussy) and a terminal unit (TU) and you are in business for not only emergency traffic handling, but one heck of a lot of fun.

VHF/UHV RTTY repeaters in our area are found on: 146.70 (-) in the San Fernando Valley, 145.12 (+) Running Springs, and on 145.70 simplex. On 220 MHz: 224.72 (-) at Palos Verdes, 224.82 (-) on Mt. Otay (down for repairs). Simplex is on 223.72. Many of the RTTY repeaters link to other machines and bands. At 10000 daily there is a formal RTTY traffic net on 146.70, 145.12, and 224.72.

(To be continued.)

SOUTHERN CALIFORNIA ANTIQUE RADIO SWAP MEET

The next SCARS quarterly swap meet will be in the Lockheed Employees Recreation Club parking lot at 2814 Empire, Burbank, and is sponsored by the Lockheed ARC. It will be on August 17, a Saturday.

SCARS interests are collection, restoration, and preservation of early wireless and radio equipment. Most members collect battery sets of the 1920s and A.C. sets of the 30s. Others collect wireless, tubes, magazines, literature, test equipment, etc. The SCARS quarterly gazette carries articles on old time radio people and companies and equipment. Any PARC member can receive a copy by sending \$.40 to W6THU, 1545 Raymond, Glendale,

CA 91201. About 25% of the SCARS members are hams.

Thanks to Floyd Paul, W6THU, for the foregoing. His phone number is 213-242-8961. He is a PARC member, and does use W6NWG/R when in the area.

DOWN THE TOOBE

PLEASE NOTICE! THIS is the last issue of SCOPE you will receive unless you have renewed your membership in the PARC. Check your mailing label for the expiration date. NO AUGUST SCOPE for folks who don't reenlist before we put it in the hands of the postal inspectors. USE THE GREEN MEMBERSHIP APPLICATION/RENEWAL BLANK IN LAST MONTH'S SCOPE. PAY ATTENTION!

According to an item in the 220 Club Bulletin FCC Private Radio Bureau Chief Bob Foosaner said: "...when an association that has 10,000 members files, that is 10,000 individual users filing, and I think we have to be aware of that... When an individual user files, we read it, and we are just as concerned about it, but that is an individual versus 10,000 individuals....." This would appear to apply to the ARRL with its 125,000 members. It still doesn't make sense to not join the ARRL because you don't agree with some facet of their operation. You still vote (I hope) even though you don't necessarily agree with all our government does. If you don't like some of the things League is doing, join it and try to make your voice heard. You really don't accomplish much staying outside and griping about it!

Jack McCann, former KD6ZO, sent in his membership application blank from Joplin, MO. He's now KD0SV, but since he can't make the meetings, his application blank was blank.

Al Cassel, N0AL, rejoined from Marietta, GA, but says he'll have to be an Associate Member since he can't make the meetings. Not so, Al. If you're a member and have a ham license, you're a member, voting or not, Marietta or Henrietta. Associates are members who are not licensed.

Fred Olson, W6PNT, says he joined the Club because one good club member, name of Bob Hoover, KA6HZF, went to Fred's rescue at midnight or so, answering his call for help on the repeater. Bob finally went out and picked up Fred, who's car had broken down on I-15, and took him and his XYL all the way home to San Diego from near Vista.

The power of the press! Hod, W6UCN, in Marshall, TX, bought a radio from Floyd, W6JSP, in San Marcos, who shipped it to Maaantana where hod will soon be. The radio, of course, was advertised in SCOPE. See, it only takes one to buy it! I told ya.

Field Day will be over by the time you get this, but it's just two days away as this is written. Hope we see you all there! Good luck in the contest.

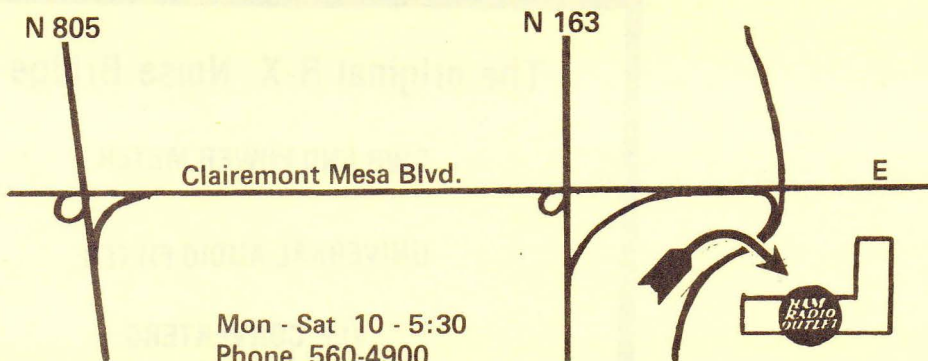
"That's all", she wrote.

RECEIVED TOO LATE TO CALCIFY

FORESAIL: Hy-Gain 4-elm, tri-band Explorer 14 EX-14 beam w/40M QX710 30M & 40M element and BN-86 balun, \$150/offer. Alliance HD-73 rotor w/control, \$50. Tri-Ex W-51 3-section tower, one year old, \$800/offer. All up and must be taken down by buyer. Heathkit SB-101 10-80M ssb xcvr w/deluxe pwr supply, Turner mike, TenTec keyer w/paddles, home-brew antennna tuner w/rotary inductor. Xlnt condx w/all manuals and extra tubes - a super first station. \$250. Call Herb, WA6IWK, at 581-0SEA and leave a message.



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ICOM IC-02AT, KENWOOD TR-2600A, YAESU FT-209RH	Newest generation of "State of the Art" HT's. See them here . . . Great prices!	
	Example: TR 2600A HRO price \$299.95	
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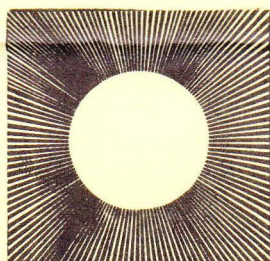
GLENN K6NA
TOM KM6K

While browsing . . . don't forget to see the CW/RTTY set-up using the Commodore 64 and the AEA interface. Let us demonstrate this fascinating mode for you.



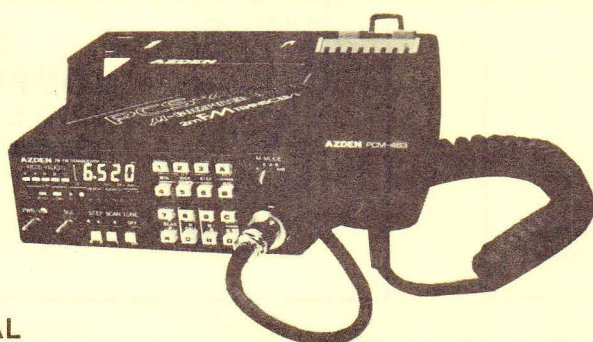
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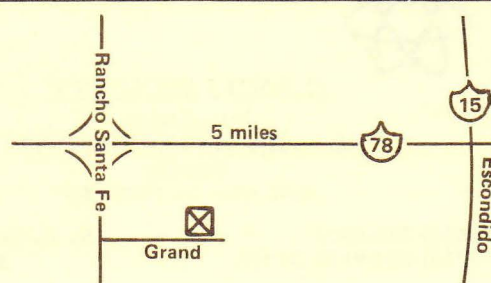
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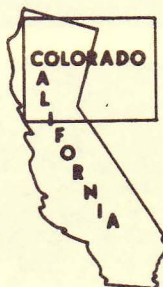
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ARRL FIELD DAY CONTEST, 1985

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NORTHERN SAN DIEGO COUNTY

W6NWX
Scope

VOL. XX, NO. 8



1936 - 1985

THE PALOMAR AMATEUR RADIO CLUB, INC.
POST OFFICE BOX 1603
VISTA, CALIFORNIA 92083-0530

AUGUST. 1985

PRESIDENT: Stan Rohrer, W9FQN, Valley Center
VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista
SECRETARY: Phil Leonelli, WF6L, Oceanside
TREASURER: John Tentor, W6OLQ, San Diego

---PRESIDENT'S MESSAGE---

Our 2M repeater was used to good advantage by the ARES and the Animal Rescue during the recent Gopher Canyon, Escondido, and De Luz fires. The Club has a written agreement with ARES and will be working towards one with the Animal Rescue group. Thanks to all club members for showing restraint in using the repeater during these operations. This is the first time for us to be used to pass California Department of Forestry fire traffic. In the De Luz fire it was interesting to note that the amateurs provided a service that the expensive fire radios could not. The fire fighters were quite impressed with our ability to provide point-to-point communications between fire control stations and throughout San Diego County. The Executive Committee is still looking at a Packet Radio repeater (145.055 MHz) for our site on Palomar Mountain. On July 13th, Paul, KB5MU, and W9FQN spent several hours at the repeater site running tests to look for intermod and desense. Bob, WA6QQQ, ran the desense tests from his home station and measured a 1 dB desensitization of our 2M repeater during packet transmissions; and a momentary 10 dB desense at the beginning of the transmission. The Packet station was running 10W and its temporary whip antenna was 30' in front of the 2M repeater antenna. The desense of the Packet station by W6NWX/R was observed but not measured. The Club has three spare cavities which we think could be used to cure the mutual desense problem. If the Packet group we are talking to does not request space at our site soon, we might consider "going it alone" since the cost could possibly be held below \$250 (a computer is not needed) and we have at least two expert Packeteers in the Club who can supervise the project. We have almost everything needed except for the Packet TNC (terminal node controller), which may be selling for \$190 by August.

The Executive Committee will bring forth to the membership its proposal on Packet as soon as an investigation of the operation is completed. Please contact me, or any Executive Committee member, if you have any comments or suggestions on the Packet project.

73 de Stan, W9FQN

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first member and \$9.00 for each subsequent family member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: PARC, P.O. Box 1603, Vista, CA 92083-0530.

SCOPE MATERIAL: News items and ads to Ralph Crossman, K6HAV, P.O. Box 73, Vista, CA 92083 by Wednesday two weeks before the club meeting.

TWO REPEATERS, both 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 the other is 444.425 MHz and the output is 449.425. The 450 MHz machine is often on tone squelch (PL 3A). They are both located on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Control operators: KB6AI, KB6DNR, W9FQN, K6HAV, WB6IQS, WA6KZN, K6ROR.

OFFICIAL CLUB BADGES: Available from the club Treasurer - for a price!

CLUB MEETINGS

WHEN AND WHERE? On the first Wednesday of the month at 7:30 p.m. in the Community Room of Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista. Visitors welcome.

AT THE AUGUST MEETING: Dennis Vernacchia, N6KI, of Chula Juana and Sandy Skidrow, will give us an illustrated talk on the Military Affiliated Radio System (MARS) at home and abroad. Dennis will tell us about some of his experiences in a MARS station in combat, and how they operated there. If you don't get combat fatigue and do need some combat time, come on out and hear Dennis' war stories. He'll also tell us about Barry Goldwater's MARS station.

SHOW AND TELL: Larry, KB6DNR, will tell us about RTTY on W6NWG/R, and Paul, KB5MU, will talk about Packet Radio. If you have something of note, bring it along and let us all see it.

SILENT AUCTION: Unfinished antenna tuner, 12VDC power supply, and the usual batch of hard-to-find goodies in the parts department at 4/\$1.

AT THE JULY CLUB MEETING: Carl and Leona Wallace, WD6B & WA6OHB, gave an illustrated talk on their recent visit to Pitcairn Island and their stay with some of the descendants of the Bounty mutineers. Their slides and movie gave us an excellent idea of what Pitcairn looks like.

Thanks to Vina de Montegre for the fine coffee and wonderful chocolate chip no-cal goodies. Tasties were also brought by Mac, WB6GXR. Thanks so much. They were deeelightful!

PICNIC! PICKNICK! PLOUENIQUE! PEEKNEEK! PEAKNEAK! PAIKNAIK! PICNIC!

The PARC's annual picnic will be held on Sunday, August 25, in San Dieguito Park on Lomas Santa Fe Drive east of I-5 in Lomas Santa Fe. The park opens at 0930 and lunch will be a pot-luck served at 1200. Those with last names beginning with A-L bring a salad; those with M-Z a casserole. Bring enough to feed about six. The site is area 1, that of last year. The prize drawings will be held after lunch. Prizes will include: ICom IC2A 2M HT, MFJ 300W antenna tuner, 2M 45W amplifier, 40M mobile antenna, 2M beam, domestic Call Book, ARRL Handbook, Yaesu lightweight headphones, hand key, and a self-igniting torch.

Tickets for the drawing be handed out by the Secretary at the August club meeting and at the picnic. Tickets will not be mailed unless you provide the Club with a S.A.S.E. Tickets may be picked up for you if the person doing so has a note from you. You do not have to be present at the picnic to win. Your ticket(s) may be put in the hopper by your agent. The Club will not act as your agent.

ARRL FIELD DAY CONTEST, 1985

(Wait'll next year!)

While the bands were a little "soft", our lack of mutual interference helped to make up for it. Except for 10M, we operated all bands from 160M to 2M, made 27 contacts on Packet Radio, 298 CW contacts (including Packet), 1,613 phone contacts, originated a Field Day message, handled ten pieces of message traffic, and operated a solar-powered station (75M phone). We used three generators and at least four batteries. Harry Field's 240' CCD antenna, the pneumatically erected tower for the 20M beam, WI6B's solar panels, and KB5MU's Packet station were all worthy of note. N6IE's all-band CW station brought out a lot of ops, who might otherwise not have made an appearance. Our final score was 4,418 plus 500 bonus points, compared to 1984's 4,464 plus 400 bonus points.

PARC members who came out and helped set up on Friday were: KS6S, WA6HYC, N6GSS, WA6KZN, KE6XF (the Pole Greaser), W9FQN (he and KA6FPS hosted the Club), KB6DNR (the pneumatic poler), WI6B (the Sunny Kid with his solar panels), N6IE (Mr. CW, and still going strong) and K6HAV. Former club members W6LKC (he brought his CCD antenna out) and WB6MSE helped set up and take down antennas. Other PARC members participating or visiting were: WA6ZKC & WA6ZKD (40M CHOPS), KZ6X (20M CHOP w/the PC logger), KB6GYG (his first taste of FD), K6CLU, WD6FWE (Mr. Fixit), WA6HQM (all bands, all modes), N4KRA (new PARC member and had a ball), KB5MU (a real Packet and filled in on other bands too!), WA6IWK, KA6GHE (a help on 40M), K6GJD and KA0RGQ, (VHF strikes again!), WB6R, W6YYV, K6RTD, W6SMP, KE6BH, KA6YJH, W6JSP, WA6BHE, N6CKQ, N6GNB, N6GWJ & WB6HMY (they helped us move our traffic). AD6Z, KS6S, and W6TFB (helped N6IE keep the atmosphere around the CCD antenna well ionized). W6BLL, WB6JVS, N6KI (he was our general purpose op), K6YGK (the duty photographer), and N6INN (breaking into roundtables and asking for a signal report and "By the way, could you give us a Field Day contact?") Member W6SMP brought KG6LB, a potential PARC recruit and former FCC engineer to visit. Hope we didn't leave anyone out. Thanks too, to those PARC members who worked W6NWG. Next year we'll have a designated 2M FM simplex channel so you can ALL work us - we're not making the 2M contacts we should be! W9FQN, KA6FPS, and their family did yeoman service in keeping the kids occupied, getting the chow out, and making the final cleanup sweep of the site for us so we'll be welcome again next year. N6INN bought the chow, and several others brought out the no-cal tasties for us. Vina deMontegre kept us in coffee - mercifully, as the contest dragged on

(and it do drag a little at age 65!). K6YGK's pics will appear in a forthcoming issue - in full gorgeous natural color - black and white on yellow paper to commemorate the SCOPE's journalistic style.

All things considered the Club did a really fine job! Our score was the equal of last year's in spite of band conditions. An excellent Field Day, with great participation. Sorry you missed it. "Wait'll next year!"

FORESAIL

(If you think that's a jib, you're not mizzen the punt!)

Hallicrafters S-38, S-38E, and S-120. Heathkit SB-100 HF xcvr, SB-610 monitorscope. A scanner, marine xcvs, Johnson 6 and 2 transmitter. Call Stan, W9FQN, at 749-0276. These are club items. Make an offer! (8)

Commodore 1525 printer w/dust cover. Works on Vic-20 and C-64, \$150. Call Earl, K6MXM, at 743-0860. (8)

Swan 1040-V w/75M add-on kit 10-75M trap vertical antenna, \$50. Call Earl, K6CLU, at 724-2827. (7)

Atari 1027 80 column letter quality printer w/one 200' roll of paper. Like new. Call Harold, W6UUJ, at 726-2616. (7)

Epson MX-80 printer w/RS-232C interface and Grafrax built in, new condx, \$295. Call Stan, K7BHI, at 728-2668. (7)

Kenwood 2500 HT w/MS-1 charger and SMC speaker mike, all for \$250; Call Allen, N7AMR, at 434-5656. (6)

Yaesu FT225RD 2M all mode base xcvr for 12VDC, 117 or 234VAC. 25W on SSB, FM, and CW. Vox, semi-break-in CW w/sidetone, noise blanker, discriminator meter and offset clarifier for tx/rx, digital and analog frequency readout, programmable tone burst. No kitchen sink. Never raced. Call Felix, N6IE, at 724-4772. (6)

Hallicrafters FPM-300 10-80M xcvr w/mic \$165; Bandmaster Deluxe 80-2M xmtr, \$40. Call Alan, KF6EU, at 728-4106. (6)

Swan 500CX SSB HF xcvr, modified in 1983, w/117CX pwr supply; Swan phone patch; TH-33 Jr. beam; CDE rotor; coax; 40' (4 10' sections) tower. Must sell. Considering donation to a deserving new ham. Call Harry Parker, W6ASQ, at 728-8236. (6)

Palomar Engineers Interface CI-103, Kantronics Hamsoft for Vic-20. Like new. Call Harrison, WB6NIG, at 724-4773. (6)

Dentron Junior Monitor antenna tuner, \$30; Micro-Craft Morse-A Word, \$35; Kenwood PC-1 fone patch, \$35; Hunter 2kw swr bridge model 25 w/pwr meter (remote) model 26 directional coupler, \$30. Yaesu FT 221 all mode 2M base station, \$250. Call Floyd, W6JSP, at 741-8391. (6)

Azden PCS-2000 2M FM xcvr w/PL. Call Bob, WA6GYG, at 941-2824. (8)

WANTED

(Start houted men!)

Folks to be responsible for bringing edible goodies the September and October club meetings. Pay attention and help out here! Call Vina de Montegre at 726-0353, or contact her at the meeting or picnic. DO IT!

The repeater building needs a coat of paint of the green or brown persuasion. It's about 10'x10'x8'. Also needed is a simple VOX unit to permit tape recorder monitoring of the repeater, and a maximum-minimum thermometer for the repeater building. Call Stan, W9FQN, at 749-0276.

Drake 2B rx. Must be mint condx and cheap, cheep, cheep! J-38 hand key in mint condx. Have money, will travel. Call Dan, WA6HYB, at 433-4445.

Kenwood TS-130SE. Call Allen, N7AMR, at 434-5656.

160M linear amplifier. ICom IC-22A in working condx and/or other xtal controlled solid state rig. Call Dennis, N6KI, at 271-6079.

FOR LOAN TO FORLORN CLUB MEMBERS

HF 50 ohm dummy loads: 400W, 50W, 1KW. Decade resistance box, 50 ohm HF pwr/swr meter, field strength meter to 2M, oscilloscope, C-R bridge and signal tracer, audio generator, electric engraving pencil, 110VAC monitor, 100W low-pass filter to 30 MHz. Call Stan, W9FQN, at 749-0276.

SURVIVORS' COMMITTEE

The Club tries to help the survivors of Silent Keys in the dismantling of the radio station and the disposal of the equipment. The Survivors' Committee is an ad hoc committee, formed of club members who are known to the survivors; and such others as are needed to disassemble the station and antennas, and price, advertise, and sell them to the best advantage and according to the wishes of the survivor. Contact Stan, W9FQN, if you have any questions or if assistance is needed.

NUDE AND REGNUED MEMBERS

NEWED MEMBERS are: Tom Merz, N4KRA; Ted Nida, N6LUQ, Vista; Gerry & Cindy Earl, N6LYX & KB6IXG, of Poway; Bud Lincoln of Leucadia with no call yet, but awaiting his Advanced Class license; Bob Steelman, W6AFZ, San Diego; Vina deMontegre of Vista, and Charles Littlefield. Welcome, we're happy to have you as club members. Also Harry Williams, W6TCI, Vista; Joan Samuels,

KM6S, San Diego; Ron Earl, W6TXK; all members a few years back. Glad to see you in the fold again.

REGNUED MEMBERS are: Stan Loye, K7BHI; Gayle Lee, AK6Z; Roy Maxson, W6DEY; Paul Brouillet, WD6BRX; Pete Mayes, WB6OBH; Russ Ames, KG6GW; Tom & Wilma Healy, N6DSX & N6DSU; Hal Janssen, W6DOL; Bob & Jane Rice, KS6S & AD6Z; Leona Wallace, WA6OHB; John Reber, N6BAD; Herb Patchell, Sr., KD6WX; Paul & Mary Dillinger, WF6K & KB6HWE; Bill & Sandy Williams, WA0ABX & WB0WGU; Harrison Breyer, WB6NIG; Mac McBride, WB6GXR; Gene Good, KB6GYG; Wilson Whipple, N6COU; Ray Miller, N6EQB; Jack Williams, W6BLL; Dee Crumpton, N6ELP; Emily & Stan Wolfe, WA6ZKC & WA6ZKD; Duane Stedman, WB6R; Marlin Enders; Buck & Mary Buckner, KA0RGQ & KB6HCH; Bob Coup, W6BXJ; Herb Wandschneider, WA6SVN; Ralph Dempsey, N6DVL; Marty Cornell, K6NS; Judy Rigger, KA6YJH; John & Alan Martin, W6SE & KX6BE.

NEW CALL SIGN: Alan Martin, KX6BE from WA6SGK.

CORRECTED CALL SIGN: W6BHF vice W6BHE for Ray Dobler.

SANDARC AMATEUR RADIO BOOTH AT THE DEL MAR FAIR

The PARC did its share, and mayhap a tad more, manning the SANDARC booth at the Fair on July 3-5. Club members participating were: WB6HMY, K6HAV, N6KWC, KA6FPS, N6CKQ, N4KRA, KB5MU, N6GZI, W6OLQ, KB6GYG, KB6DNR, WF6L, KA0RGQ, KB6HCH, N6GWJ, and N6GNB. Paul, KB5MU, had his Packet Radio set up and operating for all to see. Thanks to all of you who stepped forward and helped in this annual activity. A special thanks to Barbara, KA6FPS, and her daughter, Linda, who stepped forth and did the job on club meeting night. HRO deserves its share of the credit for the Kenwood TS-430S, with accessories, and TR-7950 they provided for the operating station. Let's hope we can avoid a future commitment on the first Wednesday of the month.

AMATEUR RADIO COMMUNICATIONS FOR THE FORESTRY DEPARTMENT

During the De Luz fire, north of Fallbrook and east of Camp Pendleton, amateurs provided communications from the fire camp at De Luz School back to the headquarters in Fallbrook when telephone lines burned out. Answering W6INI's call initially were Larry, KB6DNR, who drove through the fire to get to De Luz School; Gerry and Cindy, N6LYX & KB6IXG, at Fallbrook. Going out later were Joan, KM6S, and Buck, KA0RGQ. Those who helped initially relay traffic to and from De Luz were K6BPT and K6HAV. Art, W6INI, got the show on the road and kept it there, even after some thoughtless person left a transmitter on the air for several hours the next morning, timing the repeater out. KB6DNR provided us all with some thoughtful moments when he drove through the fire to De Luz with a nearly empty gas tank!

Other club members involved in the Humane Society Reserve effort were Dee, N6ELP, and Scott, KD6FY. If we've left any PARC members out, it's because we didn't hear them or didn't get their calls down when we did.

Communications on the repeater were generally handled in a thoughtful manner.

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday after the club meeting at various locations. Without fail, the meeting usually starts at 7:30 p.m. Club members are welcome to attend and observe - quietly and with a fitting sense of respect. The August meeting will take place at the home of WF6L.

AT THE JULY MEETING, which was held at the home of WF6L: The Committee listened to Art Smith, W6INI, ARRL Section Manager and Section Emergency Coordinator with his critique of the recent fires. The Committee also voted to urge club members to thank Glendale Fed for permitting us to use their Community Room for meetings and FCC testing by the VEs. The testing of a Packet Radio at the repeater site is to be conducted to ascertain mutual interference problems. Coffee and tasties were toothsome.

LATE STRAIGHT FROM THE FCC

Thanks to June Butler of the La Mesa Office

Advanced Class licensee James Brantley, K6KPS, of Los Angeles, has been issued a Notice of Apparent Liability to Monetary Forfeiture for \$2,000 as a result of FCC investigations into long-time complaints that Brantley was disrupting communications, recently on 20M.

Engineers from the FCC's Detroit Office, using mobile RDF equipment, conducted an enforcement campaign in the Detroit area against illegal jamming of a local amateur repeater. Five persons were apprehended, three of whom face criminal charges for operating without licenses and may receive up to a year's imprisonment and \$5,000 fine. Another faces possible revocation of his Advanced Class license or imposition of administrative forfeiture of up to \$5,000.

The FCC has proposed that VECs assume maintenance of Amateur operator examination question pools, a function formerly performed by the FCC.

The FCC has amended its rules on the rebroadcast of non-broadcast radio station messages by broadcast radio and TV stations. Amateur stations would be prohibited from being used as remote pickup or auxiliary link broadcast service facilities. Such uses of an Amateur station as forwarding weather or commuter traffic reports for use in any broadcast context will continue to be prohibited, but emergencies involving human safety or the immediate protection of property may warrant limited use of Amateur stations for news and information gathering purposes. A rule of reason will apply in such cases.

AMATEUR LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon and at the North County Blind Activity Center, 250 E. Grand Ave., Escondido, both on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination at any of the above locations must send a S.A.S.E. and a completed, signed, NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92041 ten days prior to the testing date. New 610s may be obtained from the FCC office in La Mesa, phone 293-5478. Applicants must bring their original license and code certificate (if any) with them on the day of the exam. NO "walk-in" examinees accepted.

ELECTRONICALLY ORIENTED FLEA MARTS ARE:

Ham radio-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd in Manhattan Beach on the last Saturday of the month from 0800 to 1100. Talk-in is on 145.320 MHz simplex.

SURPLUS GOODIES at HIGHWAY COMPANY, 305 W. Wisconsin Ave., Oceanside. See ad in this issue. Aluminum, brass, copper stock at Escondido Sales yard, 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, NiCads at Industrial Liquidators, 4887 Convoy St., San Diego; and at Gateway Electronics at 4633 Convoy St.

IF YOU CAN'T SELL IT, or don't want to drive to TRW, the Club will be happy to take your surplus and sell it to enrich the Club's coffers. Contact Stan, W9FQN, or any other Club officer to make arrangements to unload your excess KWM-380 or TS-940.

THE CLUB'S POLICY ON JAMMERS is to ignore them completely (even though some otherwise good club members do not) since recognition is what they are seeking. Recognition of any sort spurs them on to greater efforts so please ignore them and carry on your QSO or sign off, whichever suits you. Listen on the repeater input and attempt to hear the jammer and to locate the source of the interfering signal.

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 MHz -600 kHz at 2000 local to handle formal written traffic. Visitors are welcome.

ZUM is doing it to us. The North County Traffic Net needs more members to effect toll-free message delivery. Let's have some new net members from far away places with strange sounding names. If you haven't tried traffic handling, please step forward and give us a hand.

JOIN THE ARRL! Do it via the PARC and the Club will get \$2 which would otherwise go to Gnuington (CT 06111, that is). Won't cost you a silly sou more than if you had rashly gone off on your own, either. Just make your check payable to the Palomar Amateur Radio Club and get it to "Treasurer John" care of the P.O. Box 1603 address in the masthead, or hand it to him at the next club meeting. The Tab is \$25 per year, two years for \$47, or three for \$65.

If you're not an ARRL member, why not? Who else have you got lobbying for your hobby? The Club gets \$5 for each new ARRL member who signs up via the Club. Let's get with it NOW!

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in August: WB7OCR and K6ROR. September & October: NONE. If you want a reminder as to the expiration date of your amateur license, get it to us and we'll see that it is fed into the maw of the Gi'nt Computer. Form 610 is available to PARC members from the Club Secretary at club meetings or for a S.A.S.E. to the Club P.O. box. They are, of course, available from the FCC office in La Mesa, phone 293-5478.

LATEST CALL SIGNS ISSUED

As of June 1: WI6H, KG6UF, N6MBW, KB6JCW.

SICK CALL

Bill Watt, WA6HYC, reportedly has a very ill wife in the hospital.

Marty, K6NS, spent more than a week in Tri-City with Fleabitus (probably got too close to Chico). Marty will come out for a couple of weeks on July 16 and go back in for prostate surgery. Marty terrorized the air waves from his Tri-City Command Post. The hospital did send a technician to check out Marty's 25W 2M rig, but gave it a clean bill of health. Now if Marty can just get the same thing! Marty is now home but is to go back in for surgery in the near future.

RADIO TELETYPE - CONTINUED

By Dee Crumpton, N6ELP

Since RTTY is such an ideal mode for traffic handling, we should be skilled in its operation. Most health and welfare messages will be held until priority traffic has been sent, so it is best to have the H&W traffic stored on tape or disc, ready to be sent at full speed when the higher priority traffic is through. One way of becoming adept at handling emergency traffic is to become familiar with voice traffic procedures as they are very similar, with notable exception being one of verification. On RTTY a confirmation (CFM) line is sent following the signature. CFM should include last name of addressee, city, and phone number. ARRL abbreviated texts should be used where possible. Lists of these radiogram texts are available for a SASE from ARRL. Better yet, send \$.50 and request, additionally, the Public Service Communications Manual and Operating an Amateur Radio Station. These should be on the book shelf of all hams. ARRL message format, handling instructions, and all are covered therein.

Some RTTY procedures you should be aware of are: Pause and make sure the frequency is clear. Start ALL transmissions with 10 spaces or "diddles", followed by a carriage return and a line feed (usually the RETURN key on a computer). This allows all machines to "come on line" and begin printing on a new line. End all transmissions with a carriage return and a line feed. Line length should be 68-72 characters, including spaces. Longer lines pile up at the right edge of the paper and shorter lines waste paper. Many folks still are using the old mechanical monsters, so it helps if you do your part to conserve their paper. Do not use excess line feeds, and do not clear your screen using multiple RETURNS while on the air. Allow time for breakers between transmissions (10 seconds is good), and break with your callsign. Wait to be acknowledged before further transmitting. When in a round table, turn it to a specific station, eliminating confusion. When using mailboxes (message systems), close the system after using it. NNNN will close most of them. Four Ns are required. Your call and "monitoring" should be sent instead of CQ when using a repeater.

Before leaving the shack, make sure your transmitter is not keyed. One of RTTY's pleasures is unattended operation, but you MUST be in control when your station is on the air. Early teleprinters used the color green for their key covers, so if you are welcomed to the world of the "green keys", you'll know what they're talking about. Be friendly, helpful, and enjoy "MY WONDERFUL WORLD OF THE GREEN KEYS". de DEE, N6ELP.....

DOWN THE TOOBE

The June issue of the Western Area Army MARS newsletter had a nice article on Marv Smith, N6NA, being back in action after his illness this Spring. Also mentioned were Buck, KA0RGQ, and Bob, WA6GYG, new MARS members.

PLEASE NOTICE! If you didn't get this issue of SCOPE it's because your slow on the draw and didn't get your reenlistment check drawn and into the hands of ol' Fast Deposit John, our treasurer. If you got this SCOPE you're OK. If not, better luck next time. Pay attention! Stay alert! Remember: Once a lert always a lert.

All benefit when the repeater is not monopolized during commuting hours, when so many are on the road. It is also courteous not to "tail-end" on the repeater. Leave a wee pause for station identification (particularly for those with less power who otherwise are unable to break in).

Leona, WA6OHB, sends word that, while the callsign VR6IM is not in the Call Book, it is a valid call. It required to be used by any station on Pitcairn Island during the handling of traffic concerning medical matters.

Vendy & Genevieve Johnson, W6CWK & WA6KKQ send their regards from Oregon along with their SCOPE renewal. No rain for 40 days and 40 nights, they say. Their new radio club in Sweet Home has 7 new novices out of 9.

We sure appreciate the time and effort that George, K6YGK, has put into getting pictures for the Club of its activities, such as Field Day.

"That's all", she wrote.



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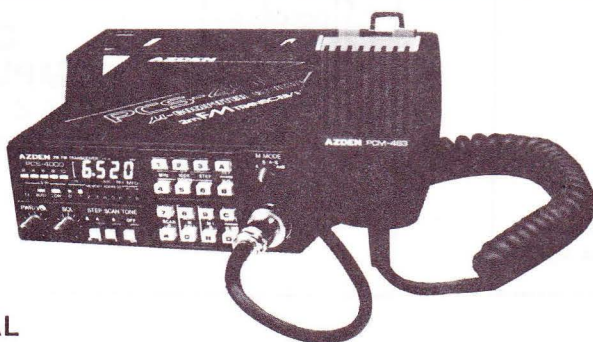


THESE PEOPLE SUPPORT THE "SCOPE" WITH THEIR ADS

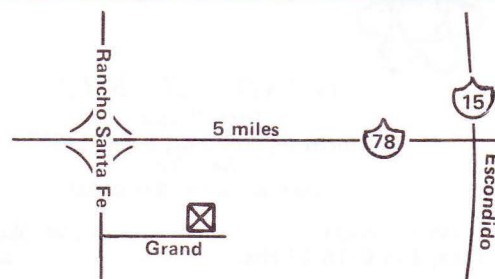


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W6NWWG

Scope

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PRESIDENT: Stan Rohrer, W9FQN, Valley Center
 VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista
 SECRETARY: Phil Leonelli, WF6L, Oceanside
 TREASURER: John Tentor, W6OLQ, San Diego

---PRESIDENT'S MESSAGE---

The Palomar Amateur Radio Club is an amalgamation of the experienced, inexperienced, young shave tails, Senior Citizens, CW operators, VHF ops, UHF ops, DXers, etc. It's hard for a club of our size to please everyone, but from the renewal blanks, it appears there are very few complaints about the Club and its operation. Granted, there are many things we could be doing better, and we are trying. We thank all of you for signing on with us for what will be our 50th anniversary year in 1986. We hope you will keep us informed as to the direction toward which you think the Club should be moving.

It seems that whenever the Club needs something, someone or some group steps forward to make it happen: work parties at the repeater site; Field Day; emergency stations; amateur testing program; insulation; cement; guy wires; painting; digging holes; tower climbing; message handling; net controls; programs; Del Mar Fair; field strength measurements; inviting people to meetings and to join the Club; writing and printing; bringing people to meetings; loaning equipment to new hams; helping travelers in need with information, gas, transportation, and calling 911; cookies; donations of money for the tower and the generator; and our good friends who stepped forward with the loan of the money to buy the repeater site so we will never again be faced with eviction. Without all of you making your services available when the Club needs help, we would not be as strong as we are today. If each member can contribute a little something from time to time, we will continue to grow to be a service to the community, to amateur radio, and to the amateurs in San Diego County. It feels good to be a Palomar Amateur Radio Club member!

In the future we, as a club, should be looking into possible areas of involvement: earthquakes, licensing classes, RTTY and Packet emergency stations, ARES emergency teams, community publicity, video tapes of our club and its operation, amateur radio bulletin boards, phone patches for emergency use, a club station, etc. If you find that something takes your fancy, contact me and we will see what we can get going.

Marty Cornell, K6NS (K6 No Smoking), has always been a strong club supporter, helping with the preparation for mailing of the newsletter and running the Club's operation of the SANDARC-VEC FCC amateur license testing program each month. Marty is now in the hospital in intensive care and needs our good wishes and prayers.

73 de Stan, W9FQN

CLUB MEETINGS

WHEN AND WHERE? On the first Wednesday of the month at 7:30 p.m. in the Community Room of Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista. Visitors welcome.

AT THE SEPTEMBER MEETING: Auction night and social gettogether. Everyone is invited to bring up to five items to be auctioned off (NO JUNK, PLEASE!). Bring things you think will sell. You set the minimum bid with the auctioneer, or put the items on the table with the minimum bid and your name and call sign. All items must have your name and call. Let's please stay in the realm of electronics with your items. Bidders MUST register and be assigned a bidder number. The Club will take 10% of the sales price of all items sold, including items sold later if the deal is made at the meeting. Come, socialize and take home a treasure.

SHOW AND TELL: Phil, WF6L, will show us his home-brew 2M Cubical Quad.

SILENT AUCTION: Antenna switch, mobile antenna mounts, 2M mobile antenna with trunk lip mount, and the usual batch of hard-to-find goodies in the parts department at 4/\$1.

AT THE AUGUST CLUB MEETING: Dennis Vernacchia, N6KI, of Corny Mesa, gave us a very interesting illustrated talk on the operation of a Military

Affiliated Radio System (MARS) station in combat, and how he managed to go from operating out of a storage container to the fur-lined, air conditioned fox hole he managed to have built.

Thanks to Vina de Montegre for the fine coffee; and Pat, N6INN, and Vina for the no-cal goodies.

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first member and \$9.00 for each subsequent family member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: PARC, P.O. Box 1603, Vista, CA 92083-0530.

SCOPE MATERIAL: News items and ads to Ralph Crossman, K6HAV, P.O. Box 73, Vista, CA 92083 by Wednesday two weeks before the club meeting.

TWO REPEATERS, both 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 the other is 444.425 MHz and the output is 449.425. The 450 MHz machine is often on tone squelch (PL 3A). They are both located on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Control operators: KB6AI, KB6DNR, W9FQN, K6HAV, WB6IQS, WA6KZN, K6ROR.

OFFICIAL CLUB BADGES: Available from the Club Treasurer - for a price!

PICNIC! PICKNICK! PLOUENIOUE! PEEKNEEK! PEAKNEAK! PAIKNAIK! PICNIC!

A great one, as usual, but this was at the printer's at picnic time.

ANTENNA REBUILD IMPROVES 2M REPEATER SENSITIVITY AND SIGNAL STRENGTH

On Sunday, July 28th, the two antennas in use on the 2M repeater were removed and replaced by two three-element beams, kindly donated by Merit Arnold, W6NLO, (WESTCOM). The two beams were stacked vertically using a phasing harness. The sensitivity of the repeater receiver immediately improved a whopping 10 decibels, while the transmitted signal dropped slightly in most areas. The receiver had been badly desensitized by a defective transmitting antenna, which WB6IQS says was presenting a 3:1 SWR to the duplexer (duplexers do not function properly at SWRs much higher than 1.5:1). The high SWR prevented the duplexer from doing its job of isolating the transmitter from the receiver. Thus the "numb" receiver. Thanks to Ed, N6GZI, who spent most of the day on the tower changing and repairing antennae (one of the leads in the phasing harness was broken!); and to John, WB6IQS, for designing and manufacturing the phasing harness; to Merit, W6NLO, for the antennas; to Bob, WA6QQQ, and Bob, W6NZX, for their measurements and assistance from their home QTHs.

At the same time, the repeater building got a nice new coat of paint (something which better blends in with the surroundings, rather than the DAY-GLO Orange we wanted). Thanks to Gerry, N6LYX, and his strapping son, Richard, for doing the bulk of the painting with the roller; and to Stan, W9FQN, and Ralph, K6HAV, for "cutting-in" with the brush and taking care of the "holidays".

Reports confirmed the measured 10 dB increase in receiver sensitivity and the slight drop in transmitted signal from the mountain. We could again hit the machine with the HT - on low power!

After a few days of operation on the temporary beams, we lost some of the receiver sensitivity which we had gained, and the tx power was down still further. Something had changed after we left the mountain top.

The faulty Stationmaster antenna was repaired after we discovered how to get into the fiberglass sheath without damaging it. A "rigid" solder joint had flexed and created an intermittent connection. The problem with the DB Products antenna was located (a swaged connection had come loose), and it too was repaired in time to go to the mountain on the 18th of August.

On that day, Mt. Palomar was again scaled, the temporarily installed beams removed, and the original antennas reinstalled. A quick SWR check showed that there was still a problem. It turned out to be water in the flex line to hard line coax connections. Both antennas now presented a 1.3:1 or lower swr to the duplexer. Once again Ed, N6GZI, spent the better part of the day on the tower, assisted this time by Andy, WA6QQW. It was a pleasure to watch these two go about their business at 70'. A couple of pros. Other work done at the site was the digging of holes for three guy anchors; and the installation of the anchors. This was accomplished by Lloyd, W6TFB; Bud, KG6VX, cheered on by his wife; Stan, W9FQN; and K6HAV who held the horses. John, WB6IQS, ran the business in the repeater

building, and before his long day was over, pulled the ailing 450 MHz repeater out of the cabinet and took it home - for repair.

It's interesting that, while there was no reported precipitation on Mt. Palomar between the two trips to the mountain, water in the coax connectors was sufficient to cause bad swr problems and reduce the power reaching the antennas to 2-4 watts instead of the expected 40+ watts. This explains the drastic power reduction noticeable several days after the two temporary beams were installed. It really points up the necessity for sealing those connections up on your tower.

FORESAIL

(If you think that's a flying jib, you're wrong!)

All Kenwood: AT-200 ant. tuner, \$125; SP-520 speaker, \$35; VFO-820 remote VFO, \$100; TS-820S HF xcvr, \$500; MC-50 microphone, \$25. KDK 2M xcvr MF-2015R, 160; Westcom RS7-A 5 amp 12 VDC CCS pwr supply, \$35; GSC 6PR 6A 12 VDC pwr supply, \$30; Marygold 2M1040 2M 10W in, 40W out amplifier, \$50; Henry AM6 2M FM 1-5W in, 30W out amplifier, \$55; Millen 906541 GDO, \$35; Millen Antenna Bridge 90672, \$35. Call Stan, W9FQN, at 749-0276.

IC-22A 2M xcvr w/xtals for 8 channels w/TT pad, \$75. KDK 2015R synthesized 2M xcvr, \$75. Drake TX-4B HF tx, RX-4B HF rx, pwr supply, all for \$300. Call Bill, W6VDA, at 466-4234.

TenTec 505 ORP (5w) 80-10M ssb/cw rig w/calibrator & manual, \$125. Call Doug at 267-3798 or 475-1575.

Telex-HyGain 2M 5-elm yagi, 75" boom 9dB gain, \$25. Telex-HyGain TH3JR-S tri-band 3-elm 8 dB gain beam, 600W p.e.p, 12' boom, \$175. Daiwa 2-position coax switch, \$15. Call Phil, WF6L, at 757-7008. (9)

From an estate, loads of test equipment and some older ham gear, including National NCX-5, Argonaut 509, ICom 2M rig, Tempo S-1, Kenwood TS-700. Call Al Goeppinger, W6FXL, at 745-4436.

Cushcraft 4-elm tri-bander w/approx. 100' RG-8 coax. Used only one year. Come and get it for \$50. Call Don, KD6PP, at 728-6098. (9)

Swan 500 SSB HF xcvr, factory modified w/6MJ6s for finals w/117X-AC pwr supply, spare driver tube and finals, all for \$150. Extra 117X-AC pwr supply, \$35. Call Russ, W6HZJ, at 728-8925. (9)

Hallicrafters S-38, S-38E, and S-120. Heathkit SB-100 HF xcvr, SB-610 monitorscope. A scanner, marine xcvs, Johnson 6 and 2 transmitter. Call Stan, W9FQN, at 749-0276. These are club items. Make an offer! (8)

Commodore 1525 printer w/dust cover. Works on Vic-20 and C-64, \$150. Call Earl, K6MXM, at 743-0860. (8)

Swan 1040-V w/75M add-on kit 10-75M trap vertical antenna, \$50. Call Earl, K6CLU, at 724-2827. (7)

Atari 1027 80 column letter quality printer w/one 200' roll of paper. Like new. Call Harold, W6UUJ, at 726-2616. (7)

Epson MX-80 printer w/RS-232C interface and Graftrax built in, new condx, \$295. Call Stan, K7BHI, at 728-2668. (7)

Kenwood 2500 HT w/MS-1 charger and SMC speaker mike, all for \$250; Call Allen, N7AMR, at 434-5656. (6)

Azden PCS-2000 2M FM xcvr w/PL. Call Bob, WA6GYG, at 941-2824. (8)

WANTED

(Start houted men!)

Folks to be responsible for bringing edible goodies to the October club meeting. Pay attention and help out here! Call Vina de Montegre at 726-0353, or contact her at the meeting or picnic. DO IT! In December, everyone plan to bring some sort of tasty for a festive evening.

A maximum-minimum thermometer for the repeater building. Call Stan, W9FQN, at 749-0276.

Drake 2B rx. Must be mint condx and cheap, cheep, cheep! J-38 hand key in mint condx. Have money, will travel. Call Dan, WA6HYB, at 433-4445.

ICom IC-22A in working condx and/or other xtal controlled solid state rig. Call Dennis, N6KI, at 271-6079.

FOR LOAN FORLORN CLUB MEMBERS

HF 50 ohm dummy loads: 400W, 50W, 1KW. Decade resistance box, 50 ohm HF pwr/swr meter, field strength meter to 2M, oscilloscope, C-R bridge and signal tracer, audio generator, electric engraving pencil, 110VAC monitor, 100W low-pass filter to 30 MHz. Call Stan, W9FQN, at 749-0276.

SURVIVORS' COMMITTEE

The Club tries to help the survivors of Silent Keys in the dismantling of the radio station and the disposal of the equipment. The Survivors' Committee is an ad-hoc committee, formed of club members who are known to the survivors; and such others as are needed to disassemble the station and antennas, and price, advertise, and sell them to the best advantage and according to the wishes of the survivor. Contact Stan, W9FQN, if you have any questions or if assistance is needed.

NUDE AND REGNUED MEMBERS

NEWED MEMBERS are: Joe Silveira, WAlCSO, Vista; Barbara Miller, Vista; Bob Dean, WD6BNX, Valley Center; Larry Randall, KF6GN, Poway; Marsh Parker, W6SAX, San Diego; Larry Larison, W7HKI, (new old member); Ed Falls, W6FTV, Fallbrook; Wesley Dey, W6YST, San Diego; Betty B. Bruin, KB6DSC, San Diego.

REGNUED MEMBERS are: John Horgan, WB6SML; Bill Salter, K6GJD; Bob Gates, WB6TBA; Lee Willis, N6KGK; Chuck Golden, WB6YVT; Bill Priest, W6WPO; Jim McManigle, KH6VO; Boots Olsen, W6HAW; Fred Young, W6UAP; Don Krusen, KD6PP; Dave Botieff, N6JTT; Ed Castagna, WA6ESG; Don McCoy, KG6FK; Gene Pottberg, W6THS; Wes Wilson, WA6UUG; Bob Rivera, WA6NNC.

NEW CALL SIGN: Bud Lincoln from no call to KG6VX in one giant bound. Congratulations, Bud.

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday after the club meeting at various locations. Without fail, the meeting usually starts at 7:30 p.m. Club members are welcome to attend and observe - quietly and with a fitting sense of respect. The September meeting will take place at the home of K6HAV.

AT THE AUGUST MEETING, which was held at the home of WF6L: The Committee voted to recommend to the Club that the Club install a Packet Radio repeater on Mount Palomar at a cost of not to exceed \$300. W9FQN and KB6DNR will attend the August 17th TASMA meeting in a continuing attempt to rid San Diego County of the interference caused by K0JPK. Coffee and tasties were toothsome.

THE PROBLEM OF THE INTRUSION OF K0JPK INTO SAN DIEGO COUNTY

The Club has been working with TASMA to try to limit the signal which is put into San Diego County by the K0JPK repeater in the Los Angeles basin on 146.730 MHz. On December 22, 1979, K0JPK (then licensed as WA6NUD) came up on 146.730 MHz with such a strong signal that it drove the Pomona 146.730 MHz repeater off of the frequency. This signal was, and still is, "loud and clear" in San Diego County on a daily basis. K0JPK is an uncoordinated repeater. W6NWG is coordinated. Many of us cannot squelch out K0JPK, and several can "work" K0JPK, using as little as 200 mW of power to an omni antenna.

We would like K0JPK to return to its original operating conditions (wherein we heard little or nothing off its signal except occasionally) or take whatever steps are necessary to exclude San Diego County in their coverage area. In order to monitor W6NWG, it is necessary for many of us to listen to K0JPK and its automatic CW ID which illegally IDs every 5 minutes, whether a signal is present on its input or not. Part 97 also requires that a repeater receiver squelch off within 5 seconds of drop of the incoming carrier. K0JPK has an 8-9 second hang time, possibly in an attempt to prevent ships off coast from using the other 146.730 MHz machines.

The Club has, over the past several years, attempted to solve the problem by working with the repeater coordinating organization, TASMA. If this fails, we have started working on three other courses of action to solve the problem. We do not want to put K0JPK off the air, just out of San Diego County!

STRAIGHT FROM THE ARRL LETTER

On August 8, the U.S. and Japan signed a reciprocal operating agreement, effective September 7, 1985. U.S. hams wishing to operate in Japan should obtain details from JARL, 1-14-2 Sugamo, Toshima, Tokyo 170 (tel: 03-947-8221).

The frequencies 902-928 MHz will be available to all U.S. amateurs above Novice Class effective 0001 UTC September 28, 1985.

FCC has removed the segment 420-430 MHz from the Amateur Radio Service north of a line extending from Aberdeen, WA to Duluth, MN, to Bangor, ME, to Searsport, ME. December 1984 QST Happenings had background information.

ARRL membership dues for Full Members have been reduced for ages 13-17 to \$12.50; and for 12 and younger to \$6.25. Prospective members meeting these qualifications must supply proof of age (statement from a parent or guardian will do) and provide a list of all licensed amateur family members (parents, spouse, siblings). Such memberships or renewals must be directly to Headquarters and not through affiliated clubs. Spread the word and encourage young amateurs to become League members.

ARRL is working on a Novice Enhancement plan to grant Novice licensees CW, data, and phone privileges on 28 MHz and on 220 MHz. See July, 1985 QST "It Seems to Us".

Latest call signs issued as of July 1: WJ6I, KG6VD, N6MGK, KB6JIK.

AMATEUR LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon and at the North County Blind Activity Center, 250 E. Grand Ave., Escondido, both on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination at any of the above locations must send a S.A.S.E. and a completed, signed, NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92041 ten days prior to the testing date. New 610s may be obtained from the FCC office in La Mesa, phone 293-5478. Applicants must bring their original license and code certificate (if any) with them on the day of the exam. NO "walk-in" examinees accepted.

ELECTRONICALLY ORIENTED FLEA MARTS ARE:

Ham radio-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd in Manhattan Beach on the last Saturday of the month from 0800 to 1100. Talk-in is on 145.320 MHz simplex.

SURPLUS GOODIES at HIGHWAY COMPANY, 305 W. Wisconsin Ave., Oceanside. See ad in this issue. Aluminum, brass, copper stock at Escondido Sales yard, 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, NiCads at Industrial Liquidators, 4887 Convoy St., San Diego; and at Gateway Electronics at 4633 Convoy St.

IF YOU CAN'T SELL IT, or don't want to drive to TRW, the Club will be happy to take your surplus and sell it to enrich the Club's coffers. Contact Stan, W9FQN, or any other Club officer to make arrangements to unload your excess KWM-380 or TS-940.

THE CLUB'S POLICY ON JAMMERS is to ignore them completely (even though some otherwise good club members do not) since recognition is what they are seeking. Recognition of any sort spurs them on to greater efforts so please ignore them and carry on your QSO or sign off, whichever suits you. Listen on the repeater input and attempt to hear the jammer and to locate the source of the interfering signal.

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 MHz -600 kHz at 2000 local to handle formal written traffic. Visitors are welcome. If you haven't tried traffic handling, please step forward and give us a hand.

JOIN THE ARRL! Do it via the PARC and the Club will get \$2 which would otherwise go to Gnuington (CT 06111, that is). Won't cost you a silly sou more than if you had rashly gone off on your own, either. Just make your check payable to the Palomar Amateur Radio Club and get it to "Treasurer John" care of the P.O. Box 1603 address in the masthead, or hand it to him at the next club meeting. The Tab is \$25 per year, two years for \$47, or three for \$65.

If you're not an ARRL member, why not? Who else have you got lobbying for your hobby? The Club gets \$5 for each new ARRL member who signs up via the Club. Let's get with it NOW!

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in September & October: NONE. November: W6DOL, WB6WQI, KS6S, W6VDA. December: WB6NPI, N6DSU, N6DSX.

If you want a reminder as to the expiration date of your amateur license, get it to us and we'll see that it is fed into the maw of the Gi'nt Computer. Get Form 610 from the Club Secretary at meetings or for a S.A.S.E. to the Club P.O. box; and from the FCC office in La Mesa, phone 293-5478.

SICK CALL

Billy McCord, WB6TBQ, was rushed to Tri-City by the para-medics on the 10th of August when he developed a blood clot in the aorta. The medics were reportedly successful in dissolving it. Billy recovered sufficiently to return home on August 21. Hope you're out and about soon, Bill.

Emily, WA6ZKC, had surgery at Scripps La Jolla on August 12. At last report she was back home and doing fine.

Chuck Saunders, KG6TD, went into Scripps on August 12 for cancer surgery. We haven't heard any news of his condition yet.

Marty, K6NS, who is suffering from emphysema, spent a very difficult weekend on 17-18 August. The medics put him back in Tri-City, in intensive care, on the 19th. He's on a breathing machine and not doing well. He

needs our good thoughts and prayers.

DOWN THE TOOBE

George, K6YGK, says he's in Baltimore and may not make it back for the picnic. Since he was supposed to take pictures for us, he's got his XYL and son lined up to do the job if he's not back in time. That's dedication!

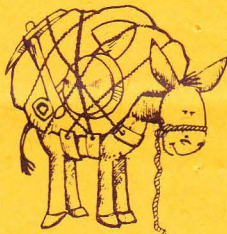
Communications General Corporation's (Bob Gonsett, WA6QQQ) Communicator reminds us that July QST had an article in it on RFI Sprays. They can provide up to 45 dB of attenuation at up to 100 MHz, and 60 dB at 1 GHz. May be just the thing for this old Heathkit H-11 computer.

The combination of our 70' tower and properly working repeaters, feedlines, and antennae have really improved our repeaters' coverage of San Diego County. It's very easy to have some component of a repeater system go "down hill" and not really notice the gradual deterioration, but it's very dramatic when everything is put right again. Thanks again to Bob, WA6QQQ, through whose efforts the tower was donated to us; and to Vern Baumgartner, W6HW, from whom came the nice copper-clad hard line and connectors. Thanks also to the crew who hung from the tower, repaired the antennas, painted the building, dug the guy anchor holes, etc, etc.

W9FQN wonders if there is anyone who can monitor 29.56 MHz (input) and 29.66 MHz (output) (10M FM) to see what activity there is. There is a listing for a repeater on Mt. Palomar on those frequencies.

We've noticed an increase in new membership applications. Thanks to those who have joined. You really do something for amateur radio when you join a club which is actively working to support it. Thanks also to those club members who have extended the hand of friendship to their fellow hams by offering membership in our fine club. Of course, as Stan, W9FQN, points out, those folks who have rejoined the Club have really done their part in supporting the Club and ham radio. Thanks to all.

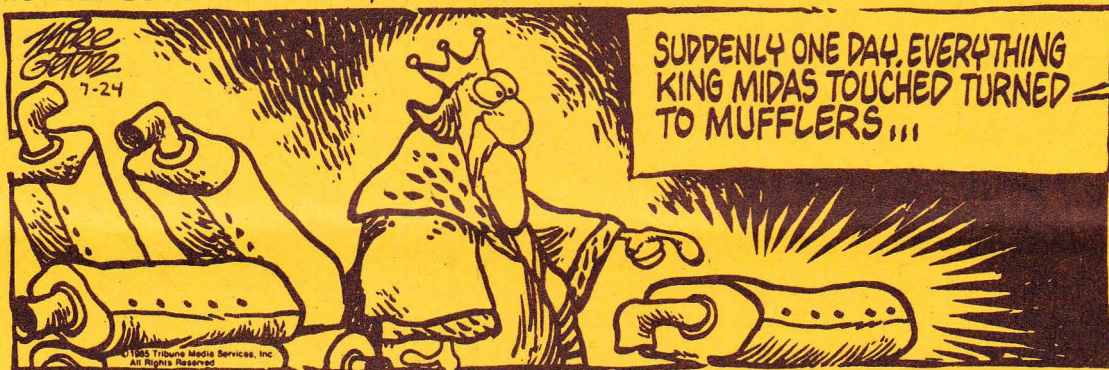
"That's all", she wrote.



Life is like being on a mule team - Unless you're the lead mule all the scenery looks about the same. FROM

SPAARG WOULD CALLING

MOTHER GOOSE & GRIMM By Mike Peters



2 METER HANDY-TALKIE ANTENNA TESTS

On August 4, 1985, Bob Gonsett (WA6QQQ) and Dee Crumpton (N6ELP) set up a homebrew antenna range and used professional test gear to determine the relative gains of various handy-talkie antennas. Simply put, they pooled their collection of HT antennas, chose one at random as a "standard" (a stock Icom IC-2A rubber duck) and tested each of the remaining antennas on two radios and in two environmental settings (antenna ranges "A" & "B"). The results of their tests are attached.

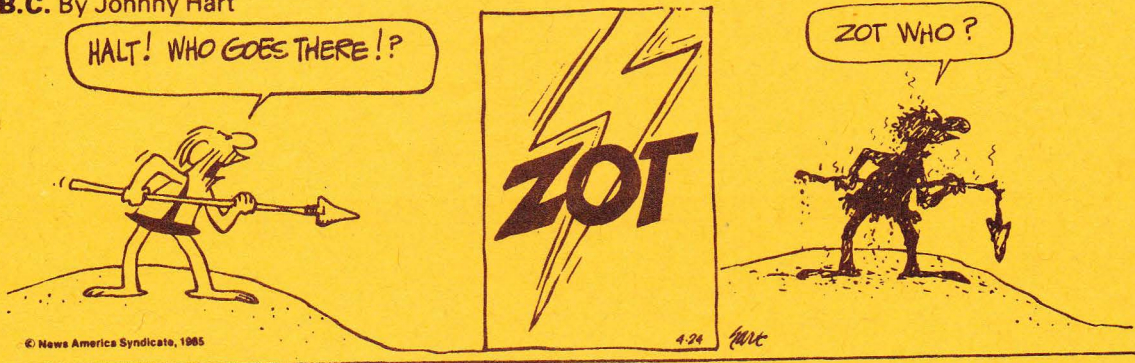
HT antenna gain measurements are difficult to make because of the variations in the ways the radios (and therefore the antennas) are held and the way individual radios tend to load into a given antenna. Indeed, the operator is part of the antenna system and imparts directional characteristics to the radiated pattern. Keeping this in mind, an attempt was made to "average out" any directional properties by having the HT operator (N6ELP) transmit continuously while walking around the perimeter of a 10-foot diameter circle. The receiving antenna (a 20' AGL quarter wave ground plane about 100 feet away) was thus exposed to all sides of the transmitted signal. Two HTs were used to test the idea of PA loading variations.

The ground plane receiving antenna was connected to half inch diameter hardline coax and terminated in a Potomac Instruments Type FIM-71 field strength meter which in turn was connected to an Esterline Angus Model MS401BB servo driven strip chart recorder. WA6QQQ supervised the measuring program and analyzed the data in order to determine the median strength of each antenna tested. The gain of the reference IC-2A antenna was measured at the beginning, middle and end of each series of measurements and the median of these values was defined as 0 dB gain (against which the other antennas were compared). This procedure also permitted the HT's output powers to be checked for stability (no significant variations were found).

Finally, two supplemental tests were run. First, when the reference ICOM IC-2A antenna was used, the apparent antenna gain dropped by 11 to 27 dB when the HTs were belt mounted. (Don't belt mount your HT and expect to be able to transmit any distance!) However, when the antenna was clipped to a metal headband and connected to a belt mounted HT with a short length of coax (this assembly made by a company in Dayton, Ohio), near normal antenna gain was restored. In both cases, however, increased multipath was noted on the strip chart recorder.

Enjoy the results of the measurements. While they're not elaborate, they will help you separate fact from fiction in a field where rumors abound.




B.C. By Johnny Hart



HANDY-TALKIE ANTENNA GAIN MEASUREMENTS, XMIT MODE (LOW POWER), 146.55 MHz
AUGUST 4, 1985 - WAGQQQ & NGELP

AUGUST 4, 1985 - WAGQQQ & NGELP

dB GAIN RELATIVE TO STOCK IC-2A ANTENNA

	ANT #	— ANTENNA TESTED —	LENGTH	WEIGHT (oz.)	PERFORMANCE ON IC-2A		PERFORMANCE ON TR-2600A		INTERPOLATED MEDIAN OF ALL RUNS
					RANGE A	RANGE B	RANGE A	RANGE B	
RUBBER DUCKS	1	STUBBY DUCK, TUNED ANT. CO. 	4"	1.1	-0.4	+0.4	0.0	-2.9	-0.2
	2	STUBBY DUCK, TUNED ANT. CO. (LOOKED LIKE AN OLDER MODEL)	4"	1.1	-0.4	+1.0	-2.1	-3.1	-1.6
	3	LARSEN SHORT CUT 	10 1/2"	1.8	-0.4	-0.8	-0.4	-1.0	-0.6
	4	LARSEN KDL DUCKIE 	7 1/2"	1.4	-2.9	-3.3	-1.7	-2.5	-2.7
	5	STOCK ANT. FOR KENWOOD TR-2600A	7"	0.8	-2.9	-2.9	-4.6	-3.7	-3.3

TELESCOPING ANTENNAS

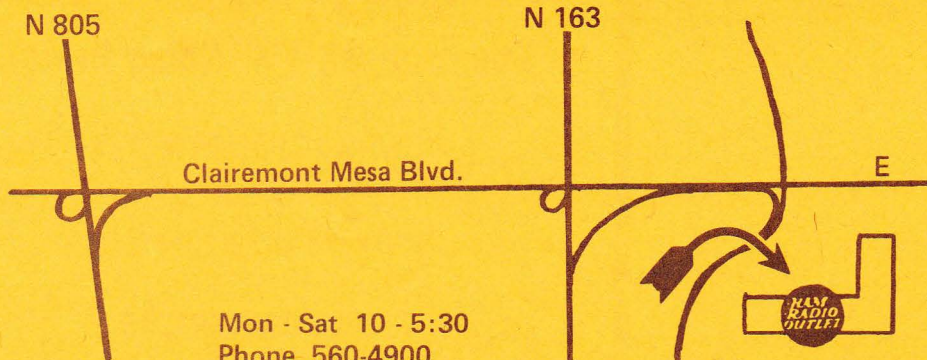
		FULLY EXTENDED										
TELESCOPING ANTENNAS	FULLY EXTENDED	6E	MODUBLOX SP-146 SKY PROBE	43"	3.3	+3.3	+3.7	+10.8	+10.8	+12.1		
		7E	AEA HOT ROD (RED SHRINK TUBING ON COIL) MODEL HE-1	40 1/2"	1.8	+3.7	+3.3	+10.0	+10.0	+11.7		
		8E	SUPER-STICK II (1/8-WAVE), TUNED ANT. CO.	55"	4.0	+7.9	+7.5	+7.9	+7.5	+7.7		
		9E	SUPER STICK II WITH MODIFIED COIL: SHRINK TUBING REPLACED WITH #33 SCOTCH ELECTRICAL TAPE	54"	4.0	+6.4	+7.5	+7.9	+6.6	+7.1		
		6C	MODUBLOX SP-146 SKY PROBE	8 1/2"	3.3	-1.7	-2.9	-9.1	-7.5	-5.2		
	FULLY COLLAPSED	7C	AEA HOT ROD (RED SHRINK TUBING ON COIL) MODEL HE-1	8 1/2"	1.8	-5.0	-3.7	-1.7	-1.7	-2.7		
		8C	SUPER-STICK II (1/8-WAVE), TUNED ANT. CO.	10"	4.0	-4.6	-4.6	-3.7	-3.3	-4.2		
		9C	SUPER STICK II WITH MODIFIED COIL: SHRINK TUBING REPLACED WITH #33 SCOTCH ELECTRICAL TAPE	10"	4.0	-4.2	-5.0	-1.7	-4.2	-4.2		

OUT-OF-BAND ANTENNAS

OUT-OF-BAND ANTENNAS	10E	SUPER STICK III (1/8 WAVE FOR 220 MHz), TUNED ANT. CO.	34 1/2"	3.4	+4.6	+4.2	+6.2	+5.8	+5.2			
	10C	SAME AS ABOVE, BUT COLLAPSED	9"	3.4	-7.9	-7.9	-4.6	-5.8	-6.9			
	11	BEARCAT 101 SCANNER ANTENNA	6 1/2"	1.5	-8.3	-9.5	-4.6	-7.9	-8.1			
	12	ICOM 3AT (220 MHz) STOCK DUCK	7"	1.1	-12.5	-12.0	-9.5	-10.0	-11.0			

MOTHER GOOSE & GRIMM By Mike Peters





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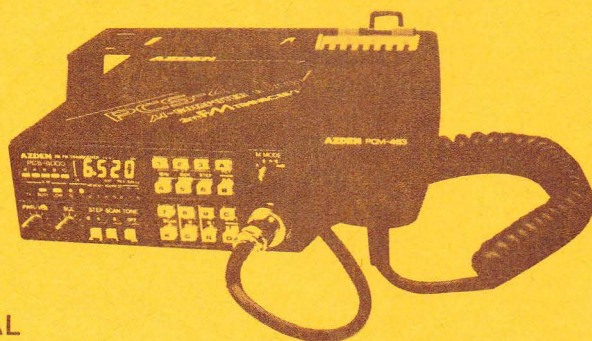


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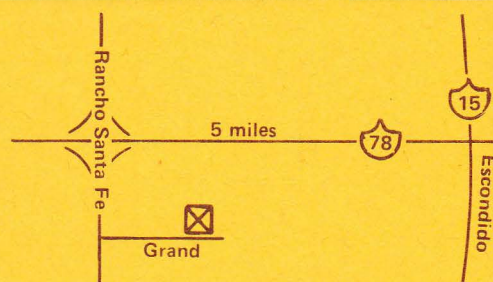


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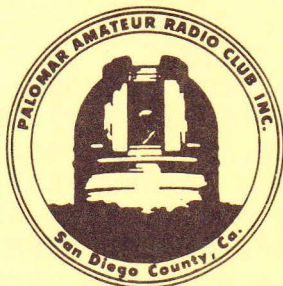
Micky Jenkins
Store Manager

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SCOPE SEPTEMBER '85



W6NWG

Scope

VOL. XX, NO. 10

1936 - 1985

OCTOBER, 1985

PRESIDENT: Stan Rohrer, W9FQN, Valley Center
VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista
SECRETARY: Phil Leonelli, WF6L, Oceanside
TREASURER: John Tentor, W6OLQ, San Diego

---PRESIDENT'S MESSAGE---

Marty Cornell, Jr., K6NS, was a personal friend and a strong supporter of the Palomar Amateur Radio Club. Marty devoted his last days to helping run our Volunteer Examiners' Program each month. At his last PARC meeting, Marty sensed the end was near and told me, as I kneeled next to him, that he was attending his last PARC meeting; and that he soon would not need all those air tanks and hoses that he had to drag around with him. In the hospital Marty could not talk because of all the breathing tubes, but he was able to communicate to the end using his beloved Morse Code.

I am saddened to see K6 No Smoking removed from our traffic net roll calls because I keep hoping that at some time he will answer.

73 de Stan, W9FQN

CLUB MEETINGS

WHEN AND WHERE? On the first Wednesday of the month at 7:30 p.m. in the Community Room of Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista. Visitors welcome.

AT THE OCTOBER MEETING: Dick West, W6IUG, will show us a 20 minute film on the F-16 fighter aircraft and another short film on up-to-date tanks and subs. Dick will also tell us about the test equipment used.

SHOW AND TELL: If you have bought or built something new or different, bring it in and let us see it.

AT THE SEPTEMBER CLUB MEETING: WB6IQS reported on the improvements and repairs made to the repeater antenna system, and said that the 450 MHz repeater was off the mountain for repairs. N6INN reported on the status of the VE Program. KB5MU reported that the Executive Committee recommended the Club put into operation, in the Club's building on Mt. Palomar, a Packet Radio digi-peater on 145.050 MHz for not more than \$300. A motion was made to do so and carried unanimously. WF6L showed us his home-brew 4-element Quad for 2M. We had a dandy auction, which netted the Club a tidy amount (10%) and which let me dispose of two out of the three items I took to the auction. I think we should try it again (as soon as I clear out enough junk to get to the good stuff).

Thanks to Vina de Montegre for the fine coffee; Vanessa, WB6BHE; Charlie, KE6QV; Steve Gaylan; and Vina for the no-cal goodies.

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first member and \$9.00 for each subsequent family member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: PARC, P.O. Box 1603, Vista, CA 92083-0530.

SCOPE MATERIAL: News items and ads to Ralph Crossman, K6HAV, P.O. Box 73, Vista, CA 92083 by Wednesday two weeks before the club meeting.

TWO REPEATERS, both 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 the other is 444.425 MHz and the output is 449.425. The 450 MHz machine is often on tone squelch (PL 3A). They are both located on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Control operators: KB6AI, KB6DNR, W9FQN, K6HAV, WB6IQS, WA6KZN, K6ROR.

OFFICIAL CLUB BADGES: Available from the Club Treasurer - for a price!

PICNIC

A great one, as usual, with a fine turnout, some great cooking, but the prizes were terrible (since we didn't win any). Nice prizes, however, were won by: WD6FWE, IC-2A HT; WI6B, MFJ antenna tuner; K6YGK, 2M amplifier; W2FWV, self-igniting torch; KA6FPS, phone patch; KA6GRG, Call Book; W6HCD, ARRL Handbook & a code practice oscillator; WA6KZN, earphones; WA6ZKC, 2M beam; W6HZJ, 80M Hustler resonator; WB6HMY, 40M Hustler resonator.

Ken, WA6BCC, and his Blue Grass group provided us with some very easy-to-listen-to music. Our cooks turned out their best efforts, which were matched by the efforts of some of our gourmards! Thanks to Emily, WA6ZKC, for organizing such a great picnic. Getting things done in the pot luck department were Pat, N6INN, assisted by Judy, KA6GHE; Barbara, KA6FPS; and Emily, WA6ZKC. We were "salad" this time some we didn't get a chance to bring the chili this year. Sorry 'bout that!

Duane, WB6R, did a great job on the prizes. Our thanks go to HRO and Westcom for their assistance in the prize department. George, K6YGK, was there - with cameras, and took a flock of pictures for us. We hope to have the best of them, and those from Field Day, in the Scope one day soon.

FORESAIL

(If you think that's a flying jib, you're wrong!)

All Kenwood: AT-200 ant. tuner, \$100; SP-520 speaker, \$25; VFO-820 remote VFO, \$85. GSC 6PR 6A 12 VDC pwr supply, \$25; Henry AM6 2M FM 1-5W in, 30W out amplifier, \$55; Millen Antenna Bridge 90672, \$30. Call Stan, W9FQN, at 749-0276. This is all from the estate of K6RY, and has been donated to the PARC, EARS, and PARS. The proceeds will be divided among the three clubs.

Collins KWM-2 HF xcvr w/Collins 312-B-4 station control, Hallicrafters PS-500C pwr supply, 414A mobile mike, Shure 444D mike, \$565. Vic-20 w/ Ramax (28,159 free bytes), Hamtext, 40-80 column board, Touch Typing Tutor, and 6 tapes including Personal finance, Loan/mortgage calculator, Vic Typewriter, word processor, Home Inventory, and Expense Calculator, plus publications, \$125. Call Bob, WA6KZN, 729-4504. (10)

Drake TX-4B HF tx, RX-4B HF rx, pwr supply, all for \$300. Call Bill, W6VDA, at 466-4234. (9)

From the estate of the late W6ZYT. TS-930AT, \$880; SP-930, \$45; MC-60A, \$35. No manuals for foregoing gear. For the package: \$915. Tri-Ex W-51 tower, KT-34A, Ham IV rotator, 10' of 2" OD galvanized mast, 3 coax stand-offs, Hustler 67-144 2M coaxial vertical, Hustler 75-10M vertical, Morgain 80-40M dipole. Buyer to take down. No manuals available. Package price: \$995. All of above less than 3 years old. Call Herb, W6FET, at 728-8615. (10)

TenTec 505 QRP (5w) 80-10M ssb/cw rig w/calibrator & manual, \$125. Call Doug at 267-3798 or 475-1575. (9)

Telex-HyGain 2M 5-elm yagi, 75" boom 9dB gain, \$25. Telex-HyGain TH3JR-S tri-band 3-elm 8 dB gain beam, 600W p.e.p, 12' boom, \$175. Daiwa 2-position coax switch, \$15. Call Phil, WF6L, at 757-7008. (9)

From an estate, loads of test equipment and some older ham gear, including National NCX-5, Argonaut 509, ICom 2M rig, Tempo S-1, Kenwood TS-700. Call Al Goepfinger, W6FXL, at 745-4436.

Swan 500 SSB HF xcvr, factory modified w/6MJ6s for finals w/117X-AC pwr supply, spare driver tube and finals, all for \$150. Extra 117X-AC pwr supply, \$35. Call Russ, W6HZJ, at 728-8925. (9)

Hallicrafters S-38, S-38E, and S-120. Heathkit SB-100 HF xcvr, SB-610 monitorscope. A scanner, marine xcvs, Johnson 6 and 2 transmitter. Call Stan, W9FQN, at 749-0276. These are club items. Make an offer! (8)

Azden PCS-2000 2M FM xcvr w/PL. Call Bob, WA6GYG, at 941-2824. (8)

WANTED

(Start houted men!)

Everybody to bring Christmas tasties to the December club meeting for a festive evening. Pay attention and help out here! DO IT!

A maximum-minimum thermometer for the repeater building. Call Stan, W9FQN, at 749-0276.

Kenwood Grid Dip Meter M-81; and Yaesu Transverter FTV-707. Call Allan, N7AMR, after 10/10/85 at 434-5656.

ICom IC-22A in working condx and/or other xtal controlled solid state rig. Call Dennis, N6KI, at 271-6079.

NUDE AND REGNUED MEMBERS

NEWED MEMBERS are: Noel Janko, WB6VSG, La Mesa; Howard Gates, W4NYU, Santee; Ross McCollum, KB6IQA, San Diego; Bob Merritt, N6ETH, Lemon Grove; Will Nielsen, W6MFT, San Diego; Gayle & Steve Rogers, KB6IGP & KB6IGO, San Diego; Wayne Dewey, WD6AHX, Oceanside; Steve Lang, WA6BSD, Escondido. Welcome. We're very happy to have you with us.

REGNUED MEMBERS are: Earl, K6MXM; Frank, N6FGE; Ed, WB6WQI; Claude, W6DWE; Paul, KZ6X; Andy, WA6QQW; Don, WD6FWE. Belatedly reported: Paul, WD6BRX; John, WB6HSZ; Stan, K7BHI; Pete, WB6OBH; Max, W6DEY; and Art and Edith, W6EVL & K6AYJ.

New SCOPE subscribers are: Wayne Stack, KB6HCU, of Santa Ana; and Jack Honts, WD0DLW, of Kansas City, (MO, that is). Say what?

REBUILT ANTENNAS REALLY DO THE JOB FOR THE REPEATER

The rebuilt dB Products antenna has revitalized the 2M machine. We now have KD6RY regularly checking in on our NCTN on two watts - from Cucamonga! All reports indicate that the receiver and transmitter are very nearly reciprocal i.e.: If you can hear it, you can hit it.

The 450 MHz repeater has been repaired and is back on the mountain with a receiver sensitivity of .2 uV (without the GASFET preamp it's 2 uV!). All reports indicate that it's coverage very closely parallels that of the 2M machine. Thanks to John, WB6IQS, for the quick fix; and for foregoing the picnic to put it back on the mountain. We now have quite a few folks who are 450 users, and they appreciate the greatly improved repeater.

The Packet Radio TNC has been shipped and should be on display at the club meeting - or in operation on the mountain on the Club's digi-peater.

The insulation of the repeater building is well along, thanks to Ron, WI6B, and Lloyd, W6TFB. Thanks also to George, K6YGK, and to Dennis, N6KI, for the insulation. The next working party will finish the job and cement the three guy anchors for the tower.

AMATEUR LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon and at the North County Blind Activity Center, 250 E. Grand Ave., Escondido, both on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination must send a S.A.S.E. and a completed, signed, NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92041 ten days prior to the testing date. New 610s may be obtained from the FCC office in La Mesa, phone 293-5478. Applicants must bring original license and code certificate (if any) on the day of the exam. NO "walk-in" examinees accepted.

ELECTRONICALLY ORIENTED FLEA MARTS ARE:

Ham radio-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month.

The TRW ARC flea mart at Compton and Aviation Blvd, Manhattan Beach the last Saturday of the month 0800 to 1100. Talk-in on 145.320 MHz simplex.

JOIN THE ARRL! Do it via the PARC and the Club will get \$2 which would otherwise go to Gnuington (CT 06111, that is). Won't cost you a silly sou more than if you had rashly gone off on your own, either. Just make your check payable to the Palomar Amateur Radio Club and get it to "Treasurer John" care of the P.O. Box 1603 address in the masthead, or hand it to him at the next club meeting. The Tab is \$25 per year, two years for \$47, or three for \$65. If you're not an ARRL member, why not? Who else have you got lobbying for your hobby? The Club gets \$5 for each new ARRL member who signs up via the Club.

JIM FAUGHN, WD6ENK, SILENT KEY

This had gone to press when it was learned that Jim Faughn, WD6ENK, had passed away on the evening of 9/18.

Jim was a quiet, genteel man with a heart of gold. Because of his unassuming manner, he did not stand out in a crowd. Jim Faughn was: "THE FRIENDS OF THE PALOMAR AMATEUR RADIO CLUB", the lien holder on our repeater site. Upon learning of the availability of the repeater site, he knew that if the Club could not buy it, we would forever lose it. Jim provided the funds to purchase the land, with two requirements: 1. The money was to be loaned at a very low rate of interest; and 2. The source of the funds would remain anonymous.

Each time the repeater is used, one might reflect that such use is possible because of Jim Faughn's generosity. We respected his wishes and kept his secret. Jim will never be forgotten.

PRB-1 APPROVED. LOCAL ANTENNA ORDINANCES FEDERALLY PREEMPTED.

After this had gone to press, ARRL Bulletin 78 indicated that on 9/16, the FCC declared a limited preemption over state and local antenna regulations, stating that such regulations which preclude amateur radio communications are in direct conflict with federal objectives and must be preempted.

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday after the club meeting at various locations. Without fail, the meeting usually starts at 7:30 p.m. Club members are welcome to attend and observe - quietly and with a fitting sense of respect. The October meeting will take place at K6HAV.

AT THE SEPTEMBER MEETING, which was held at the home of K6HAV: The Committee voted to recommend to the Club that a Packet Radio information voice net be operated on the 2M repeater once a week on a trial basis; and to reject the request of KA6UAI to put his 2M repeater into our building since that repeater's coverage would duplicate that of W6NWG/R. The persistent intrusion of K0JPK/R's 146.730 MHz signal into San Diego County was discussed. We will continue to press for a reduction of the strength of K0JPK/R's signal in W6NWG/R's coverage area. It was voted to buy a crystal for the digi-peater.

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in October: N0NE. November: W6DOL, WB6WQI, KS6S, W6VDA. December: WB6NPI, N6DSU, N6DSX.

If you want a reminder as to the expiration date of your amateur license, get it to us and we'll have it fed into the Computer.

MARTY CORNELL, K6NS, BECOMES A SILENT KEY

Marty, K6NS, left us September 9, in the evening about 7:30 due to renal failure. Marty, who had battled emphysema for a long time, spent his last weeks in Tri-City Medical Center. He was a very dedicated and active Club member and was the Club's Volunteer Examiner Team Leader. It was under his guidance that the first VE-administered FCC license exams were given in north county. K6 NO SMOKING was also a regular in helping get the Scope out; and in encouraging young hams to upgrade. Marty had been licensed since 1931. A good person, a good ham, and a good friend. Marty will be missed by all of us who knew him.

SICK CALL

Bill McCord, WB6TBQ, is back home and recovering from his serious heart attack and blood clot problem, and has been feeling good enough to check in on the NCTN.

Chuck Saunders, KG6TD, went into Scripps on August 12 for cancer surgery. He spent a couple of weeks in the hospital, but is back home now and trying to build his strength back up. We've talked to him on the air a time or two and he says he's getting good reports from his doctors.

Jane Rice, AD6Z, spent several days in the hospital with respiratory problems, but, at this writing, was back home and recuperating.

DOWN THE TOOBE

Mac, WB6GXR, sure did a friend, and the Club, a favor when he gave Bob Merritt, N6ETH, a membership for his birthday. Mac says that Bob is a blind ham who will make a good club member. Thanks, Mac, and welcome, Bob.

Congratulations to Pat Crossman, N6INN, who has been appointed to fill the slot of Team Leader for the Club's VE team, left vacant by the passing of Marty Cornell, K6NS. Pat's first act was to dragoon two new VEs in Dennis, N6KI; and Phil, K6ROR.

At the first exams administered by the VEs since the passing of K6NS, 11 applicants were examined (our largest group yet), and 7 of the 11 came out smiling. Marty would have been proud. Aubra Tilley, of Pauma Valley, and a former W5, came in with no license, started off with the 20 wpm code test and then worked his way from Novice through Extra Class in the written tests. Aubra walked out with a Certificate of Completion for an Extra Class license! Lloyd, W6TFB; Larry, KB6DNR; and Mary, KB6HWE, (XYL of Paul, WF6K) upgraded to Extra Class, Advanced Class and Technician, respectively. Will Nielsen II, son of Will, W6MFT, earned a Technician's license. Congratulations to all.

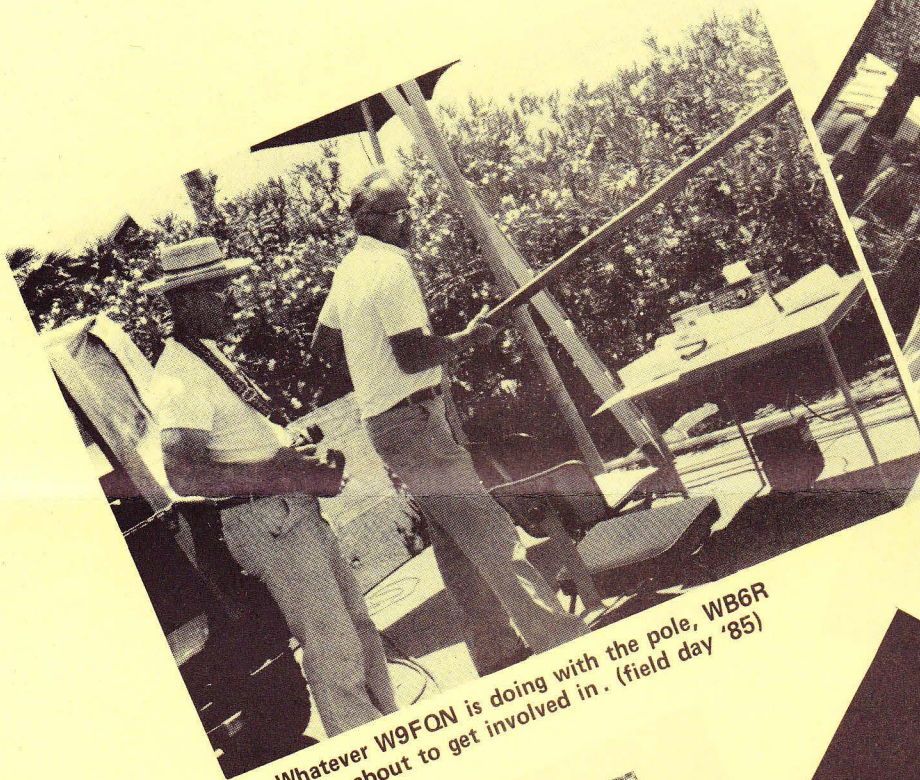
Cindy, former KB6IXG, is sporting a new call sign now, N6MOI. I'm no student of French, but I seem to recall that "moi" means "me" in that language.

We've been very fortunate to have some fine new club members join us. We're glad to have you. Membership in a club which works to support amateur radio is one way YOU support your hobby. We're also appreciative of the efforts of club members to let folks know about membership in the PARC.

"That's all", she wrote.

PICTURES:

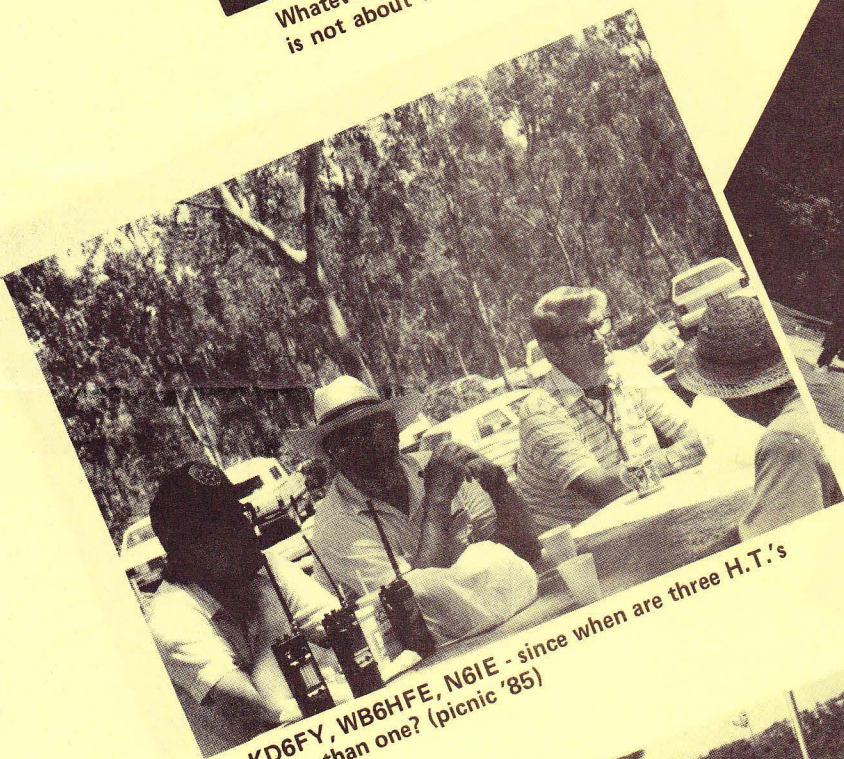
PICNIC / TOWER / FIELD DAY



Whatever W9FQN is doing with the pole, WB6R is not about to get involved in. (field day '85)



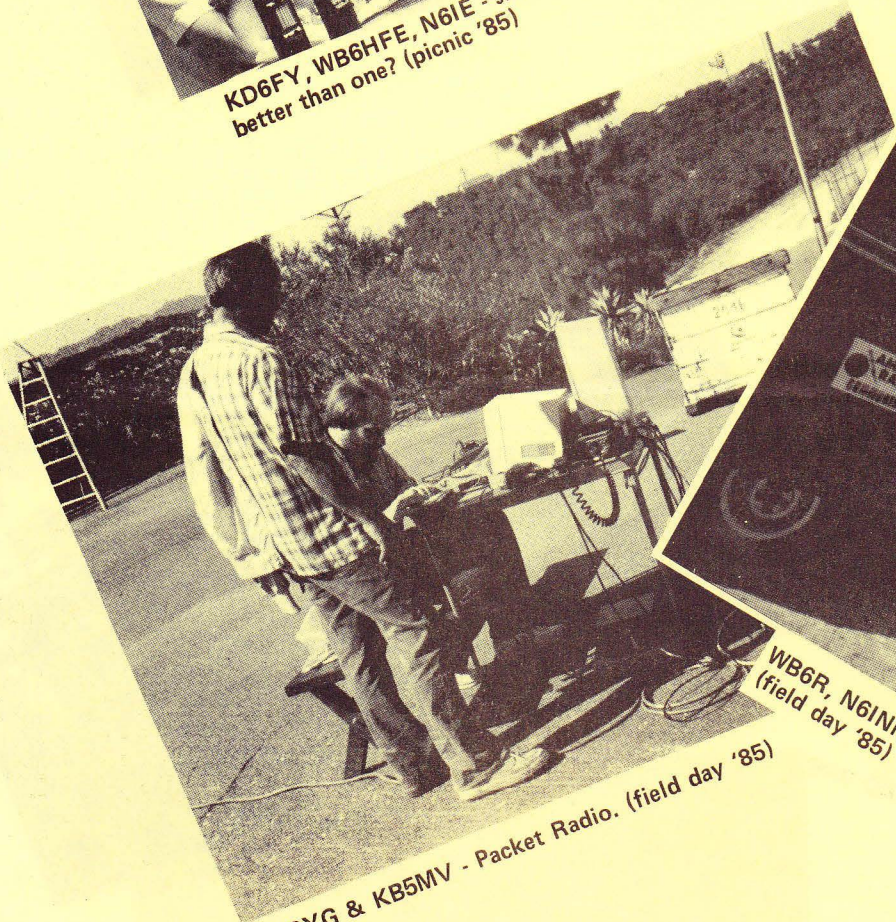
KG6VX & WB6IQS use a rope instead of Stan's pole. (repeater site)



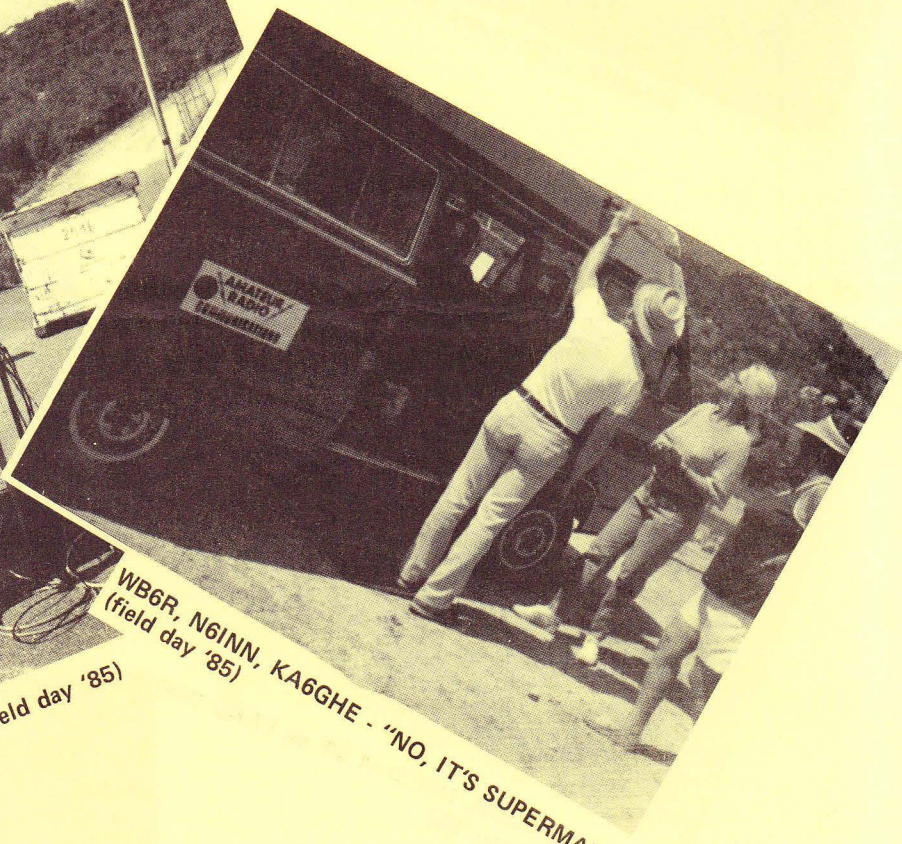
KD6FY, WB6HFE, N6IE - since when are three H.T.'s better than one? (picnic '85)



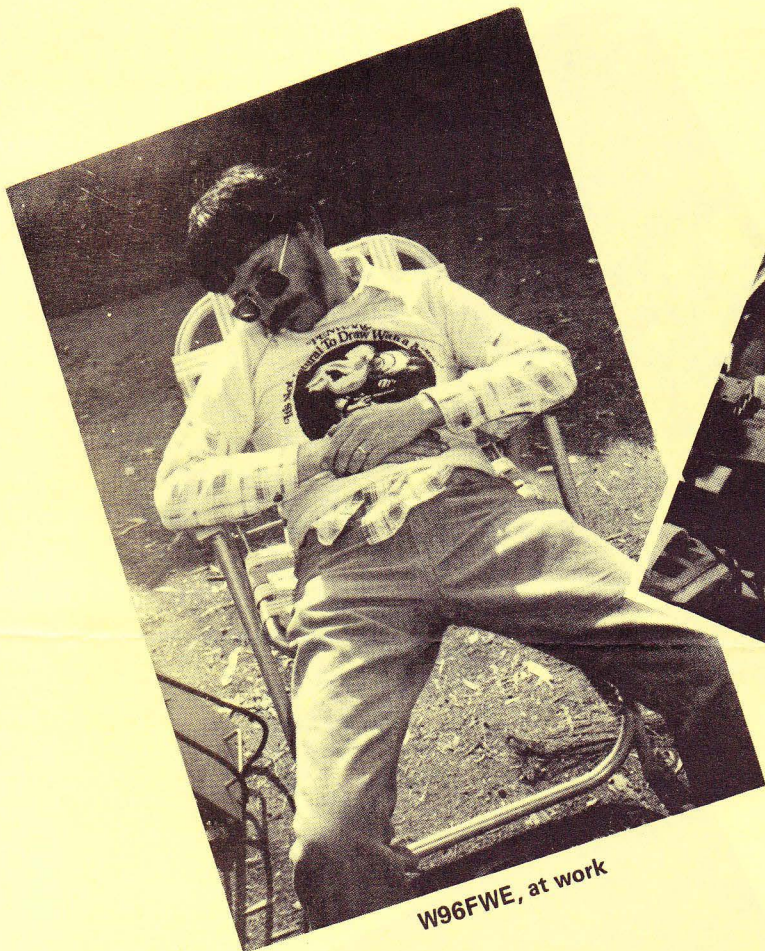
KG6VX & XYL Caroline, WB6IQS, N6GZI, W6TFB, W9FQN, WA6QQW. (at repeater site '85)



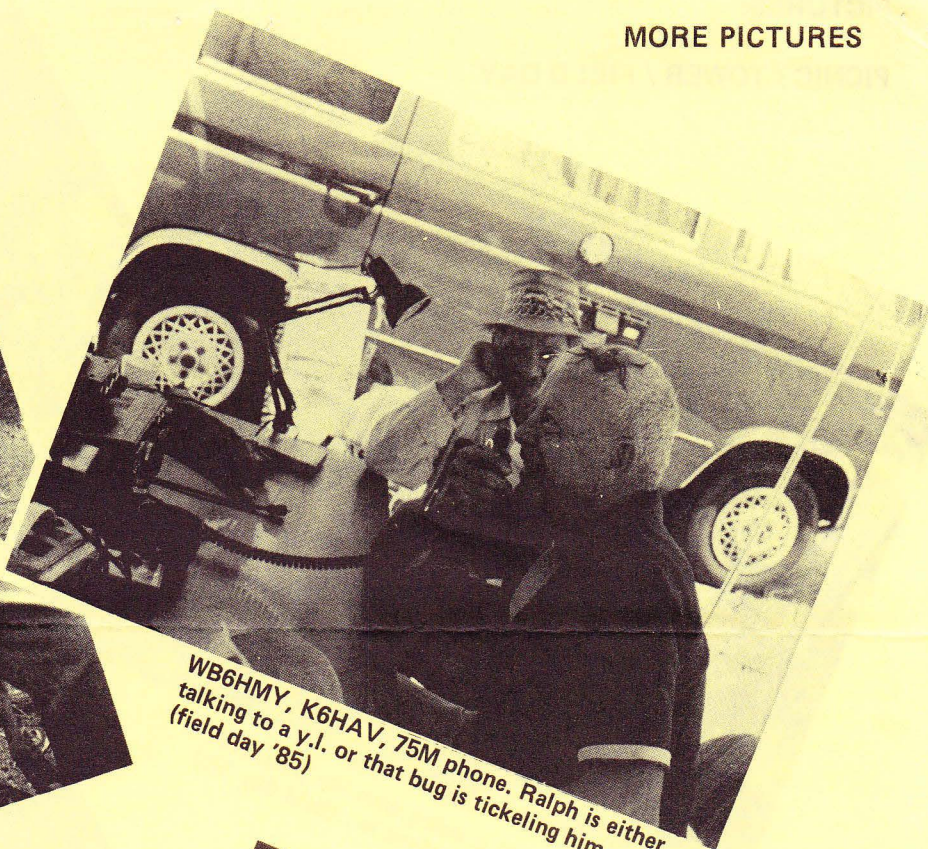
KB6GYG & KB5MV - Packet Radio. (field day '85)



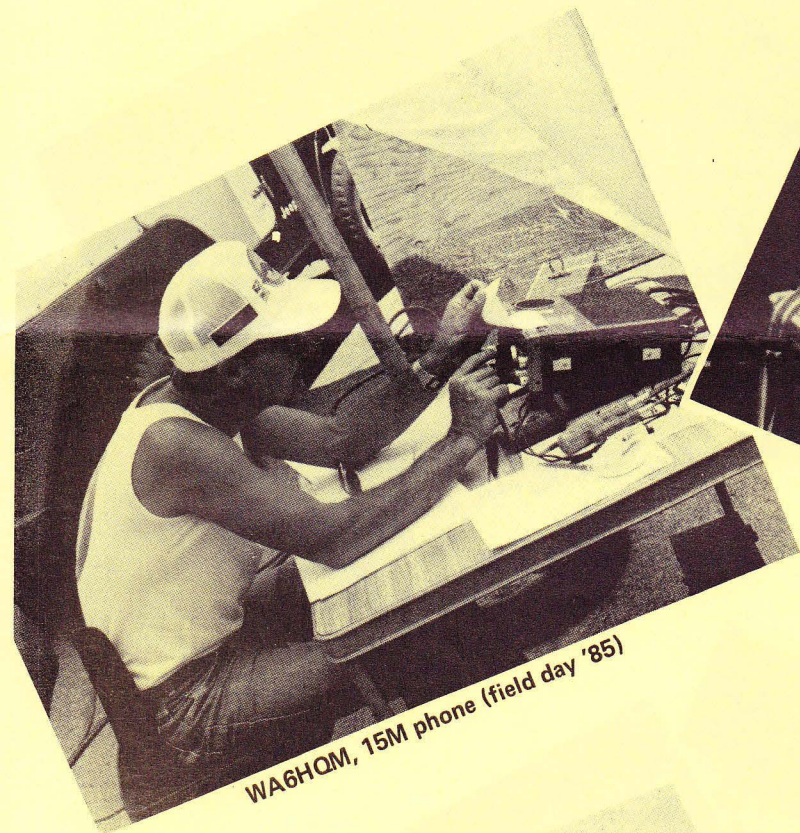
WB6R, N6INN, KA6GHE - "NO, IT'S SUPERMAN". (field day '85)



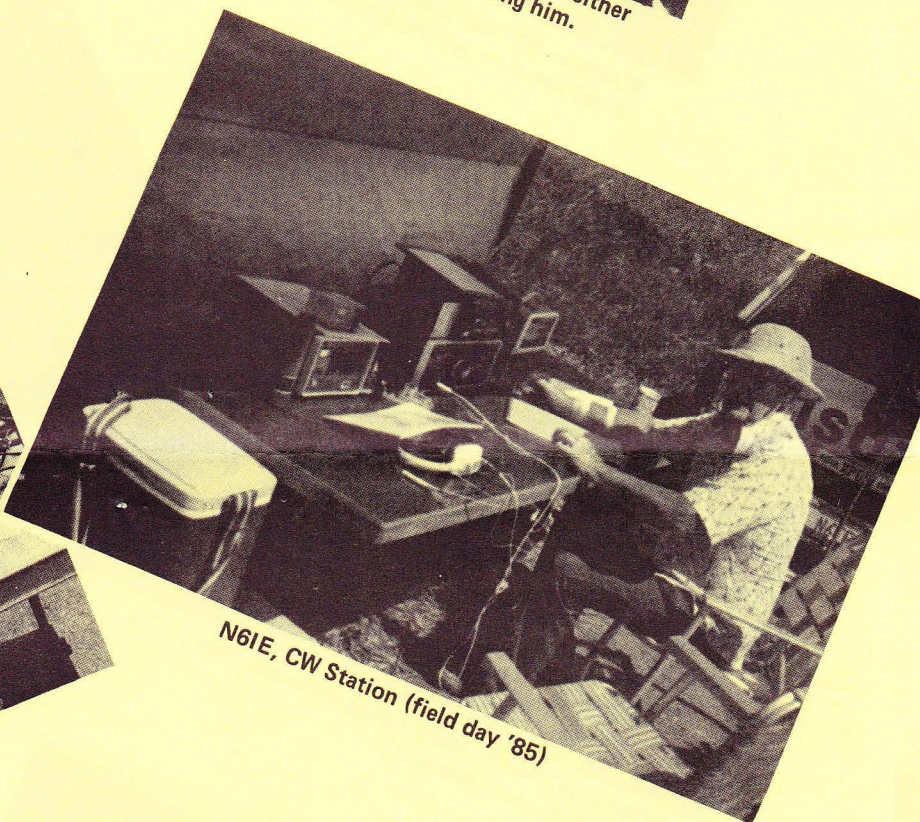
W96FWE, at work



WB6HMY, K6HAV, 75M phone. Ralph is either talking to a y.l. or that bug is tickeling him. (field day '85)



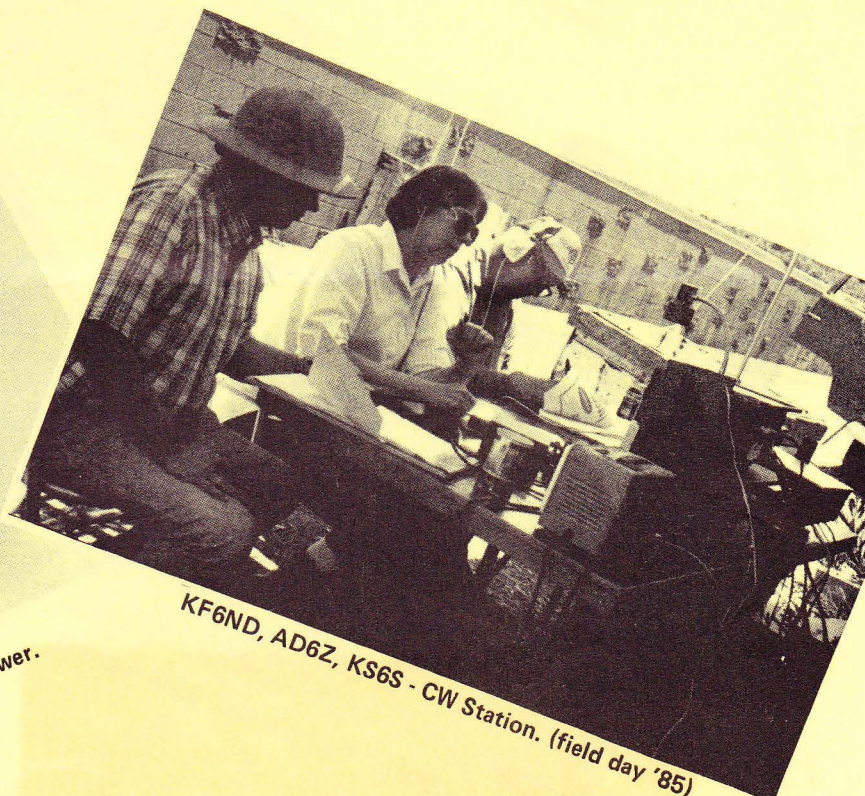
WA6HQM, 15M phone (field day '85)



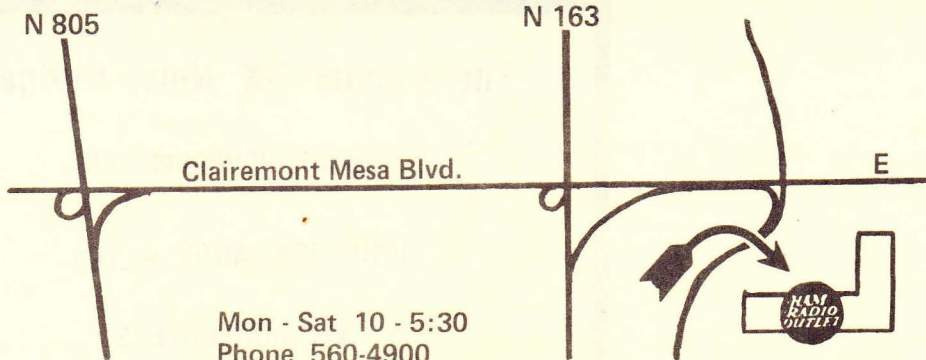
N6IE, CW Station (field day '85)



WA6QQW, N6GZI at 60' on PARC tower. (repeater '85)



KF6ND, AD6Z, KS6S - CW Station. (field day '85)



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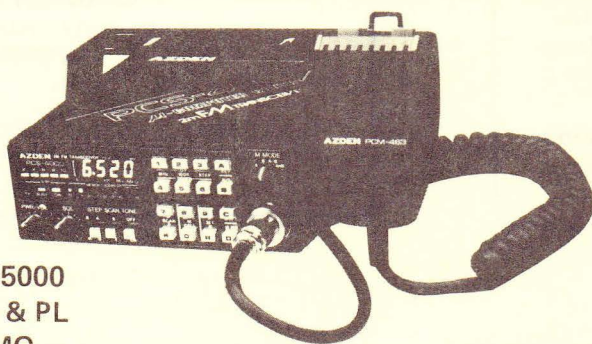


THESE PEOPLE SUPPORT THE "SCOPE" WITH THEIR ADS

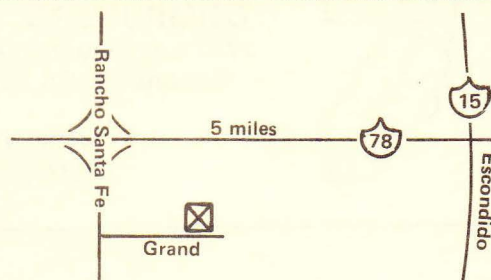


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KB6DNR

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SCOPE - OCTOBER '85

070-447
SAN DIEGO COUNTY'S OLDEST



W6NWG

Scope

VOL. XX, NO. 11

1936 - 1985

NOVEMBER, 1985

PRESIDENT: Stan Rohrer, W9FQN, Valley Center
 VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista
 SECRETARY: Phil Leonelli, WF6L, Oceanside
 TREASURER: John Tentor, W6OLQ, San Diego

---PRESIDENT'S MESSAGE---

The Mexican earthquake again pointed out the need for reliable local and long distance communications. Our thanks to Larry, KB6DNR, and Dennis, N6KI, for the many hours spent handling traffic into and out of Mexico City (Larry's phone bill was just under \$150). Other Club members known to have handled disaster traffic were Charlie, WB6ZJZ; Paul, WA6IPF; Pat, N6INN; and Joe, WB6HMY.

Our 2M repeater can operate less than 24 hours on emergency battery power. The Packet machine can operate about 48 hours, and the 450 machine will not operate on battery. The 220 Club's repeater in our building will probably last about 24 hours. We have the Club's 3.5 KW generator which would have to be taken to the repeater site during long power outages. We are looking into increasing our battery reserve and limiting repeater use during AC outages.

Ralph Crossman's station, K6HAV, has been designated as the Club's emergency station and will receive full support from the Club in emergencies. Other stations will be designated as needed. The Club plans on entering the Sweepstakes competition, using K6HAV, so that Club members will become familiar with the site and with the equipment. This station will have the responsibility for handling long-haul traffic into and out of the area.

Gerry, N6LYX, has consented to be the Club's portable emergency operations officer, and will be working with others to set up emergency teams for field communications in disasters such as fires, earthquakes, etc; and fixed-portable communications at hospitals, evacuation centers, etc.

We had hoped that we could set up our organization in conjunction with A.R.E.S., but until that time comes, we will "go it alone" and hope to make our resources available to A.R.E.S. when an emergency comes along.

We hope that our younger members will be available for field operations; and that some of our "young at heart" will be available at K6HAV and at fixed-portable locations.

THE EARTHQUAKE IS COMING, AND MANY THINK THAT THE "BIG ONE" WILL HAPPEN IN CALIFORNIA WITHIN THE NEXT 10 YEARS. WE MUST BE PREPARED FOR IT AND FOR SUCH OTHER DISASTERS WHICH COME OUR WAY.

73 de Stan, W9FQN

CLUB MEETINGS

WHEN AND WHERE? On the first Wednesday of the month at 7:30 p.m. in the Community Room of Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista. Visitors welcome.

AT THE NOVEMBER MEETING: Will be a presentation on EARTHQUAKE PREPAREDNESS by the County Department of Disaster Preparedness. This is one to which we can all stand to pay attention!!

SHOW AND TELL: Gerry, N6LYX, will demonstrate AEA's "Morse University". If you have bought or built something new or different, bring it in and let us see it.

SILENT AUCTION: 2M mobile antenna and other goodies too humorous to mention. Also the usual fine "stuff" at four for a dollar.

AT THE OCTOBER CLUB MEETING: The Club voted to instruct its SANDARC delegates to vote favorably regarding the publication of a County Call Book; and to permit operation of a Packet Radio Voice Net on the 2M repeater each Tuesday evening at 2100, the NCS to be a Club member. Dick West, W6IUG, showed us some very interesting films on the F-16 and the Air Force precision flying team, the Thunderbirds.

Thanks to Vina for the fine coffee; and to Gaylee, KB6IPG; Mac, WB6GXR; Mary, KB6HCH, (three trays!); and Vina for all of the tasty low-cal goodies.

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OFFICIAL CLUB BADGES: Available from the Club Treasurer - for a price!

REPEATER

About the 11th of October the 2M repeater began to experience repeated interference in the form of a 2000 Hz tone being heard for a few seconds or so. Finally, realizing that the interference was probably a spur rather than deliberate, we set to tracking it down. Bob, W6NZX, and Bob, WA6QQQ, recognized the tone as that of a telephone "idle" tone. Work was started to track down what was obviously a spurious emission from a station in telephone service. Betty, KB6DGR, in Chula Vista was able to hear the tone on the repeater input; and was able to ascertain that it was drifting across 146.130 MHz twice during each occurrence. It could not be heard in north county. WA6QQQ enlisted the aid of some of the south county T-hunters via the 220 Club repeater, who were able to copy the signal and tie it in with a previous occurrence on the Lyons Peak repeater. It was coming from a Mexican base station in mobile telephone service. The frequency of the offending transmitter was 143.475 MHz. It could be heard in north county, and WA6QQQ determined that the 2001.2 Hz tone was identical to that heard on W6NWG/R. The interference on our repeater coincided with the times when the Mexican transmitter was on.

Alex, XE2IO, in Tijuana reportedly had been helpful in solving the previous interference from the same transmitter. A day was spent in locating and contacting Alex. The engineers at the Channel 6 TV transmitter were also contacted. They advised they would contact the Mexican equivalent of the FCC on our behalf. W9FQN prepared a letter to the Engineer-in-Charge at the La Mesa FCC office in the event this too became necessary. It did not! The Mexican contacts did the job! Late Thursday afternoon or early that evening, prior to the traffic net, the interference ceased. Apparently the offending 143.475 MHz transmitter had been re-tuned and the spurious emission eliminated (or at least moved from 146.130 MHz?).

Thanks to all who assisted in the solution. While the Club will have a big long distance phone bill for all of the calls to Mexico and San Diego, W9FQN's persistence in getting to the right party solved this problem. Special thanks to KB6DGR, W6VDA, and others who looked at the input for the interference; to W6NZX and WA6QQQ for identifying the source of the problem, and for calling out the DFers who then located and identified the source of the offending signal. Well done!

The Packet repeater should be at our site and working by the time you receive this issue of SCOPE. Remember, the Packet Phone Net is on 146.730 MHz each Tuesday evening at 9:00. All Club members are invited to listen in and to participate. This is an excellent time to find out what's going on in the world of Packet Radio.

Thanks again to Ron, WI6B; and to Lloyd, W6TFB, for putting the insulation in the repeater building. There is a bit more to be done on the ends of the roof and the floor. Thanks to Art, K6LNJ, for giving us enough insulation to finish the job.

Work yet to be done is the insulation of the floor and installation of the tower guys. The 18-ton base was engineered to meet all weather conditions and the addition of the guys should result in a 100% safety factor. WE NEED THE TOWER, and want it to be there in an emergency.

We are looking for ways to update the 450 repeater into something more state-of-the-art and capable of 12VDC operation.

FORESAIL

(If you think that's a flying jib, you're wrong!)

Kenwood TS-820S HF xcvr, \$425; Millen bridge 90672, \$30. Call Stan, W9FQN, at 749-0276. From the estate of K6RY.

Drake NB-5 noise blander for TR-5 xcvr only, \$20. Call Dennis, N6KI, at 271-6079. (11)

Kenwood 2500 2M HT w/spkr mike, in A-1 condx, \$175; Drake WH-7 HF wattmeter, \$40. Call Earl, K6MXM, at 743-0860. (11)

Kenwood TS-520S HF xcvr, never raced; Regency 10-50 10 channel 5-band programmable scanner, like new, \$100 OBO; Cobra 148 TTL 120 channel SSB/AM CB rig w/pwr supply, \$175 OBO. Call John Long at 744-7647. (10)

Collins KWM-2 HF xcvr w/Collins 312-B-4 station control, Hallicrafters PS-500C pwr supply, 414A mobile mike, Shure 444D mike. Vic-20 w/ Ramax (28,159 free bytes), Hamtext, 40-80 column board, Touch Typing Tutor, and 6 tapes including Personal finance, Loan/mortgage calculator, Vic Typewriter, word processor, Home Inventory, and Expense Calculator, plus publications. \$500 takes everything, Collins and computer. Call Bob, WA6KZN, 729-4504. (11)

Hustler HF mobile antenna w/resonators for 40-10M. Collins SM-3 mike, \$60. Call Allen, N7AMR, at 434-6560. (11)

Drake TX-4B HF tx, RX-4B HF rx, pwr supply, all for \$300. Call Bill, W6VDA, at 466-4234. (9)

From the estate of the late W6ZYT. Tri-Ex W-51 tower, KT-34A, Ham IV rotator, 10' of 2" OD galvanized mast, 3 coax stand-offs, Hustler 67-144 2M coaxial vertical, Hustler 75-10M vertical, Morgain 80-40M dipole. Buyer to take down. No manuals available. Package price: \$995. All of above less than 3 years old. Call Herb, W6FET, at 728-8615. (11)

Swan 500 HF xcvr, factory modified w/6MJ6s for finals w/117X-AC pwr supply, spare driver tube and finals, all for \$150. Extra 117X-AC pwr supply, \$35. Call Russ, W6HZJ, at 728-8925. (9)

Hallicrafters S-38, S-38E, and S-120 rxs. Heathkit SB-100 HF xcvr, Atlas 210 HF xcvr w/AC pwr supply and mobile mount, Heathkit HW-101 HF xcvr w/AC supply, spare 6146s, turner mike, all documentation, and swr bridge; Heathkit SB-610 monitorscope. A scanner, marine xcvs, Johnson 6 and 2 transmitter. These are club items. Make an offer! The Club also has 8' copper clad, commercial grade ground rods w/clamps @ \$10 each. Call Stan, W9FQN, at 749-0276.

Azden PCS-2000 2M FM xcvr w/PL. Owner desperate. Reasonable offers OK. Will trade - or anything. Call Trader Bob, WA6GYG, at 941-2824. (11)

Fred Schnell, W6OZF, has the estate of W6AQP for sale. It includes the Swan 600T/600R combo and other items. Phone 724-0868. (11)

WANTED

(Start houted men!)

Everybody to bring Christmas tasties to the December club meeting for a festive evening. Pay attention and help out here! DO IT!

A maximum-minimum thermometer for the repeater building. Call Stan, W9FQN, at 749-0276.

Specs on Thordarson filament xformer T-20C-61. Call Nash, W6HCD, at 728-3574. (Nash, who had three winning picnic tickets, says he's never had a winning ticket before! Goes to prove: "It only takes one!")

Yaesu Transverter FTV-707. Call Allan, N7AMR, at 434-5656.

ICom IC-22A in working condx and/or other xtal controlled solid state rig. Call Dennis, N6KI, at 271-6079.

NUDE AND REGNUED MEMBERS, NEW CALL SIGNS

NEWED MEMBERS are: Bob & Judy Traynor, WA7GRW & KA7PII, San Diego; Mike Fisher, N6MMP, Ramona; Chuck Haynes, WB6AZQ, Pauma Valley; Aubra Tilley, WM6T, Pauma Valley; Paul Stack, WA6IPF, Vista; Dave Mocabee, WA6JPM, Fallbrook; Jerry Jadovitz, K6LBC, El Cajon; Bob Smith, WB6ODR, El Cajon; Bill Blackmore, KB6JWM, San Marcos; Carl Callender, N6KGI, San Diego; Wally Cook, N6JZB, Carlsbad; Del Partridge, KB6IID, San Diego; Bill Blair, K6QXW, Solana Beach; George, W6OI, & Loretta Henderson; Will Nielsen II, awaiting license, Vista; Walt Pennington, KB6DKR, Oceanside. Welcome, we're glad to have you with us!

REGNUED MEMBERS are: Charley Gibbs, WB6ZJZ; Eugene de Plomb, NZ6G.

NEW CALL SIGN: Aubra Tilley, no call at all to WM6T!

STRAIGHT FROM THE FCC

(Thanks to June Butler of the La Mesa Office)

The Club has on hand a copy of Report No. PR-9 of September 18 which is the FCC's ruling on PRB-1 (the ARRL's request for a declaratory federal preemption of state and local laws restricting operation in the Amateur Radio Service through restrictive antenna laws and ordinances). It is very interesting reading, and does point out that the ruling ".....does not reach restrictive covenants in private contractual agreements. Such agreements are voluntarily entered into by the buyer or tenant when the agreement is executed and do not usually concern this Commission." Caveat emptor. If you're intereste, this report will be at the meeting.

The Commission has amended the Amateur Rules to eliminate the 30-day wait before an applicant for an amateur examination can retake the same or higher examination element which the applicant failed. (Editor's note: SANDARC-VEC, our VEC, has established a 26-day waiting period between exams.)

Ultrasonic Pest Control devices, advertised to chase away pests by generation of noise that cannot be heard by people, have been found to generate RFI to TV and other types of equipment. The FCC Laboratory has found that a minor technical change substantially reduces its radiated emissions and hence, its interference potential. Bob, WA6QQQ, says: "Remember the Pestilator?"

In PR Docket 84-774, adopted September 19, the FCC Review Board ordered "...that the license of James W. Smith for Station W6VCE in the Amateur Radio Service IS REVOKED, and his Amateur Advanced Class operator license IS SUSPENDED for the remainder of the license term."

AMATEUR LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon and at the North County Blind Activity Center, 250 E. Grand Ave., Escondido, both on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination must send a S.A.S.E. and a completed, signed, NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92041 ten days prior to the testing date. New 610s may be obtained from the FCC office in La Mesa, phone 293-5478, or from the Club Secretary. Applicants must bring original license and code certificate (if any) on the day of the exam. NO "walk-in" examinees accepted. ELECTRONICALLY ORIENTED FLEA MARKETS ARE:

Ham radio-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month.

The TRW ARC flea mart at Compton and Aviation Blvd, Manhattan Beach the last Saturday of the month 0800 to 1130. NO ONE is allowed into the sellers' lot until it opens at 0700. Talk-in on 145.320 MHz simplex

JOIN THE ARRL! Do it via the PARC and the Club will get \$2 which would otherwise go to Gnuington (CT 06111, that is). Won't cost you a silly sou more than if you had rashly gone off on your own, either. Just make your check payable to the Palomar Amateur Radio Club and get it to "Treasurer John" care of the P.O. Box 1603 address in the masthead, or hand it to him at the next club meeting. The Tab is \$25 per year, two years for \$47, or three for \$65. If you're not an ARRL member, why not? Who else have you got lobbying for your hobby? The Club gets \$5 for each new ARRL member who signs up via the Club.

IF YOU CAN'T SELL IT, or don't want to drive to TRW, the Club will be ha to take your surplus and sell it to enrich the Club's coffers. Contact Stan, W9FQN, or any other Club officer to make arrangements to unload your excess KWM-380 or TS-940.

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 MHz -600 kHz at 2000 local to handle formal written traffic. Visitors are welcome. If you haven't tried traffic handling, please step forward and give us a hand.

SURPLUS GOODIES at HIGHWAY COMPANY, 305 W. Wisconsin Ave., Oceanside. See ad this issue. Aluminum, brass, copper stock at Escondido Sales yard, 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, NiCads at Industrial Liquidators, 4887 Convoy St., San Diego; and at Gateway Electronics at 4633 Convoy St.

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday after the club meeting at various locations. Without fail, the meeting usually starts at 7:30 p.m. Club members are welcome to attend and observe - quietly and with a fitting sense of respect. The November meeting will take place at the K6HAV QTH.

AT THE OCTOBER MEETING, which was held at the home of K6HAV: The Committee voted to: Initiate an Equipment Fund to set aside money for maintaining and up-grading the repeaters; and to look into festivities for our 50th Anniversary year.

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in November: W6DOL, WB6WQI, KS6S, W6VDA. December: WB6NPI, N6DSU, N6DSX. January: W1LE.

VOLUNTEER EXAMINERS PROGRAM

Prior to the death of Marty, K6NS, on September 9th, many of our Club members tested and upgraded, and numerous successful non-Club members then joined the PARC. Commencing with the testing for September, and hence forth, we shall inform you of all Club members who are successful, and of successful examinees who then join the Club.

On September 14: Larry de Montegre, KB6DNR, to Advanced; Mary Dillinger, KB6HWE, to Technician; Lloyd Hunt, W6TFB, to Extra; Will Nielsen II, no license to Technician; and Aubra Tilley, WM6T, no license to Extra.

On October 12: Ralph Crossman, K6HAV, to Extra; Marsh Parker, W6SAX, to Extra; Walt Pennington, KB6DKR, to General; Dan Pugh, WA6HYB, to Advanced.

Congratulations to all of you, and for those of you who desire to be (re)tested, please see details elsewhere in the Scope.

The VEs had good success in October. Six of eight examinees were successful to some degree or other. Volunteer Examiners were: N6KI, WF6L, and K6RF. W6DEY conducted the CW exams, W6YYV manned the front desk and assisted the other VEs. Thanks to all and to Vina for picking up the keys and opening the hall.

de Pat, N6INN

CONDOLENCES

Our condolences to Bill Watt, WA6HYC, a long-time PARC member who lost his beloved wife, Maxine, on October 6 after a long illness. Our thoughts are with you, Bill.

Likewise to Stan Rohrer, W9FQN, who lost his father on October 10 in Indiana. Stan's dad had been ill for some time.

Ray Hodges, W6AQP, a former PARC member, passed away on September 20. He had suffered a disabling stroke a year or so back. Ray was the partner of Fred, W6OZF. The two were antenna builders and worked for Swan.

SICK CALL

Lee, N6KGK spent some time in the Naval Hospital, but is now back home. Jack, W6BLL, was back in the VA Hospital for some more kidney surgery.

YOUR MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB SUPPORTS HAM RADIO

The PARC actively supports amateur radio in many ways. You and your fellow club members support your hobby by belonging to a club like the Palomar Amateur Radio Club, one that is working to support that hobby.

By my count, 28 new members have joined the PARC in the past two months. Stan says our membership is higher than it has ever been for this time of the year (remember our membership year starts on August 1st). This can be attributed to many things. Among them are the caliber of the Club and its members, the good operating habits on, and the quality of, the repeaters, the interesting meetings, the no-cal goodies, and the overall good vibes of a "going" club.

Some folks step forward and ask for membership information. Others, being shy, need to be asked. Many of us spot likely members, and observing them as the type of ham we want in the Club, offer to provide them with membership information. WB6HMY, KA0RGQ, N6LYX, and KB6GYG are all doing an excellent job of this. N6INN is responsible for several of our new members via the VE program and her follow-up notes and cards. We hope you, too, will do your part to let your friends know about the Club, and let the Membership Committee Chairman, Barbara Rohrer, KA6FPS, know, so she can send them a copy of our fabulous newsletter (if you think it won't do any harm) and a membership packet. Do it. It will help you, the Club, the hobby, and your friends.

DOWN THE TOOBE

We hear that Dora, KE7DR, is to become net manager for the 2M Radiogram Net of the Apache Junction ARC.

New member Walt Pennington, KB6DKR, went from Technician to General Class by passing the 20 wpm CW exam in October. He took it as a "warm up" for the 13 wpm test! He's going to come back and try for Advanced Class in December, he says.

Aubra Tilley, WM6T, also a new member, and a W5 until the late '40s, must know some one to get that call which coincides so well with that last name.

"That's all", she wrote.

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B.C. By Johnny Hart





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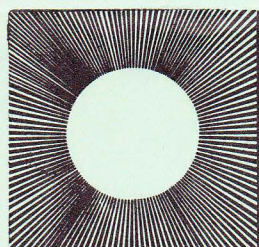
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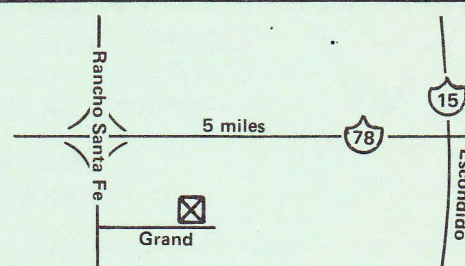


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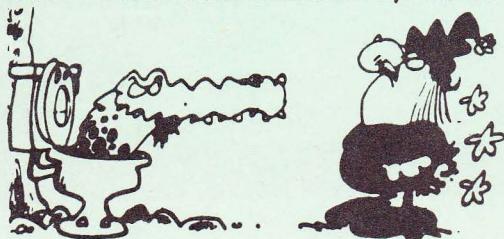
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W6NWWG

Scope

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1936 - 1985

DECEMBER, 1985

PRESIDENT: Stan Rohrer, W9FQN, Valley Center
VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista
SECRETARY: Phil Leonelli, WF6L, Oceanside
TREASURER: John Tentor, W6OLQ, San Diego

---PRESIDENT'S MESSAGE---

The Palomar Amateur Radio Club 2M repeater has experienced interference from time to time. Some is accidental and some is intentional. When you hear interference, immediately check the input to the repeater (146.130 MHz) and note the date, time, signal strength, flutter (mobile), background noise, type of modulation and direction of the signal. Beams are great for determining direction, but it can be done with an HT by holding it at varying distances from your ombligo (navel in Spanish) and rotating your body so that it acts to shield you from the offending station. The depth of the null obtained is determined by how closely to your body the HT is held.

We have been fortunate over the past years to have had very few cases of interference, but for some reason, the interference seems to come in cycles. The Club needs to develop "direction finding" teams to hunt down these sources of interference quickly. Several months ago someone with a Touch Tone modulated signal shut down the repeater while fire traffic was being passed in and out of De Luz Canyon, forcing the use of other frequencies. If our emergency planning is to be effective, we are going to have to have the capability to locate interfering signals quickly.

The Escondido Amateur Radio Society has had an active RDF group for years, and they have helped us on several occasions. We must reactivate our RDF groups so that they will be available as needed. A small DF antenna for use on a receiver having an S-meter can be built for under \$9 using all new parts. An article in July '81 QST describes the Double Ducky Direction Finder, which works with any HT and needs no S-meter. Circuit Board Specialists carries this project in kit form for \$25.44 postpaid with all new parts. Their address is P.O. Box 968, Pueblo, CO 81002. I will try to have samples of these two units available for you to see at the December club meeting.

Club membership has been steadily climbing and we expect to top the 300-member mark some time in January, which is the beginning of our 50th year as a club. Our club meetings are drawing large crowds with 90 in attendance for our November meeting. If you have suggestions for programs, please see Larry, KB6DNR, who has been doing a great job as Program Chairman. Remember, meetings are for your information and enjoyment, and they are an excellent opportunity for you to meet your fellow hams to discuss your interests and your problems.

73 de Stan, W9FQN

CLUB MEETINGS

WHEN AND WHERE? On the first Wednesday of the month at 7:30 p.m. in the Community Room of Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista. Visitors welcome.

AT THE DECEMBER MEETING: We will have election of club officers for 1986. The program will be by Dave Guimont, WB6LLO, on the subject of communications through the use of amateur radio satellites. Dave is an avid satellite communicator and will have a lot of interesting things to share.

SHOW AND TELL: Will feature RDF antennas and equipment. There will also be a reverse (name to call sign) call book available for the evening.

AND A LITTLE HO, HO, HO FROM VINA DE MONTEGRE: 'Tis the Season. Please help me make our Christmas Meeting/Party very special. Everyone please bring a few special treats and have a very nice time.

We also need people to volunteer for refreshments for the January meeting, and all of the other 1986 meetings. Thank you for your support. Season's greetings to all. de Vina

AT THE NOVEMBER CLUB MEETING: The Nominating Committee submitted in nomination its slate of officers for 1986. Nominations are: President, Stan Rohrer, W9FQN; Vice President, Larry de Montegre, KB6DNR; Secretary,

Phil Leonilli, WF6L; and Treasurer, Ron Wilhelmy, WI6B. There were no nominations from the floor. Nominations were closed. WF6L read a letter from Jerry, N6LYX, and Cindy, N6MOI, making a donation of \$100 to the Club's Equipment Fund in thanks for the presence of W6NWG and the quick response of Club members when Cindy was forced off the road and overturned.

Steve Danon, of the San Diego County Office of Disaster Preparedness, gave a most interesting and informative illustrated talk on earthquake preparedness. Thanks to Vina for the fine coffee; and to Gayle, KB6IPG; Mac, WB6GXR; Pat, N6INN and Vina for all of the tasty low-cal goodies.

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first member and \$9.00 for each subsequent family member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: PARC, P.O. Box 1603, Vista, CA 92083-0530.

TWO REPEATERS, both 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 the other is 444.425 MHz and the output is 449.425. The 450 MHz machine is often on tone squelch (PL 3A). They are both located on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users.

REPEATER

We all need the occasional reminder that we must not "tail end" too closely when using the repeater. It's also a nice thing to remember that during the heavy mobile traffic hours we should restrict our use of the machine so that the mobiles have a chance to get in, but this is not intended to mean that the mobiles should monopolize the repeater.

The Packet Radio Digipeater is in operation on Mt. Palomar on 145.050 MHz. The Packet Voice Net is on 146.730 MHz each Tuesday night at 2100.

Thanks to Bill, K6GJD, for his donation of 140' of guy wire for the tower.

PARC PLACES FIRST IN COUNTY IN CLASS 4A IN ARRL FIELD DAY CONTEST, 1985

The November QST report of the ARRL's annual 1985 Field Day Contest showed that the PARC has; placed first in San Diego County, second in the state, and 33rd nationally in its class (4A - 4 transmitters on emergency power). The Club had 1,911 contacts and 5,218 points. The Club and its 44 participants are to be congratulated for this fine showing. Every year we do it a little better! Wait'll next year!

NUDE AND REGNUED MEMBERS, NEW CALL SIGNS

NEWED MEMBERS are: Vern and Mary Paschke, N0CPS & N0EVV, Santee; Jay Carr, W6FAY, Escondido; Joe Drey KF6UB, Chula Vista; Tom Tennyson, WB6RSG, Santee; Gordon Wenz, N6GW, San Diego; Gary Bann, WB6UON, San Diego; J Jim Harper, KH6CN, San Diego; John Barber, K6QCW, Ramona; Mike Brock, WB6HHV, San Diego; Boyd Brulon, K6PBE, La Mesa; Bob Jones, N6MMS, San Marcos; Larry Friend, N7TA, Ranchita; Bob Bell, N6YX; Joe Craig, W6HLB, Oceanside; Joe Ferdyn, WA6TXJ, Pauma Valley. Welcome. We're glad to have you with us.

NEW CALL SIGN: Will Nielsen II, no call sign to N6MQV; Del Partridge, KB6IID to N6MSC.

STRAIGHT FROM THE FCC

(Thanks to June Butler of the La Mesa Office)

Effective January 1, 1986, only the June, 1984 and later editions of FCC Form 610 may be used to obtain an Amateur license. Applications on earlier editions will be returned without action, requiring refiling on a current form.

FCC enforcement action in the San Diego area has brought down citations and fines on several amateurs and unlicensed persons for their operation on certain UHF repeaters. Citations and/or fines were levied for failure to identify, broadcasting, unlicensed transmissions and other transgressions on several UHF repeaters in the San Diego area.

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday after the club meeting at various locations. Without fail, the meeting usually starts at 7:30 p.m. Club members are welcome to attend and observe - quietly and with fitting ham decorum. The December meeting will take place at the K6HAV QTH.

AT THE NOVEMBER MEETING, which was held at the home of K6HAV:

The Committee voted to Buy a new 450 MHz repeater; and to sell the

existing 450 mHz repeater to help defray the cost. The old repeater is already being advertised to possible buyers.

Interference problems and the continued encroachment of K0JPK were discussed.

A Club Roster to be published in the December Scope. Paul, KB5MU, was announced as an additional repeater control operator. Club objectives for publicizing the coming 50th Anniversary Year were discussed.

The Committee reaffirmed the long-standing Club policy that our repeaters are for Club members, occasional, and transient users - the general idea being that if you use it frequently, you should help support the Club sponsoring the repeater.

FORESAIL

(That's no jib, son, it's a marconi, you can tell by the olive)

CW/RTTY package: TRS-80 Color Computer, AEA CP-1 interface and Kantronics Hamsoft for TRS-80C, \$200. Call Lloyd, W6TFB, at 757-9374. (12)

Heath SB-201, mint (less than 20 hours use), w/stainless steel cover and manual, \$325; Commodore 64 w/orig box and accessories, \$100. Call Bill, N6COU, at 758-7163. (12)

Hitachi Model D-1428 oscilloscope. Call Bill, WB6TBQ, at 724-3837. (12)

ICom IC-245 2M SSB/AM/FM mobile/base xcvr, w/2 manuals, bracket, mike, Drake Touch Tone mike, encoder, 9VDC adapter all wired in and working, 7A pwr supply for base use, extras almost new, \$325 takes all. Tempo VHF-1 25W 2M FM xcvr w/ manual, matching pwr supply-spkr, all for \$200. Call Al, N6GNB, or Mickey, N6GWJ, at 741-1840. (12)

Drake TR-4, \$200; MIDLAND 13-509 220 mHz FM xcvr w/509 synthacoder & pwr supply, \$150; Sears 40 channel Roadtalker CB, 10M AM/SSB w/amplifier, \$150; Yaesu FT 208R 2M FM HT w/ rubber duck and 5/8 wave AEA ants, \$200; Heathkit 5010 Memory Keyer, \$50; Apple Silent Printer, make offer. Call Dick, K6PZE, at 286-7103. (12)

Kenwood TS-820S HF xcvr, \$425; Millen bridge 90672, \$30. Call Stan, W9FQN, at 749-0276. From the estate of K6RY.

Rohn HDBX48 tower (five 8' sections) w/antenna rotator and TH6DXX tri-band beam, all for \$250. Call Ralph, WD6ENP, at 579-4879 (work phone). (12)

Swantenna Model 45 mobile 75M-10M antenna w/slider adjustment for band and frequency adjustment. Call Warren, W6EYP, at 744-5097. (12)

Yaesu 480R all mode 10W 2M xcvr w/TT Pad mike, PL encoder plus regular mike, \$200; Yaesu FT708 450 mHz HT w/wall charger and cig. ltr. plug-in, has TT Pad and PL encoder built in. After 1700, call Nate, N6DCK, at 448-8438. (12)

Drake TR4-C HF xcvr w/AC supply and outboard VFO, new, never raced, \$300. Heath SB-301 HF rx w/spkr, \$75. HRO-60 HF rx w/spkr, near mint. Johnson Viking I de-TVied w/VFO, spare 4D32. Call Hal, W6DOL, at 271-5939. (12)

Drake NB-5 noise blanker for TR-5 xcvr only, \$20. Call Dennis, N6KI, at 271-6079. (11)

Kenwood 2500 2M HT w/spkr mike, in A-1 condx, \$175; Drake WH-7 HF wattmeter, \$40. Call Earl, K6MXM, at 743-0860. (11)

Kenwood TS-520S HF xcvr, never raced; Regency 10-50 10 channel 5-band programmable scanner, like new, \$100 OBO; Cobra 148 TTL 120 channel SSB/AM CB rig w/pwr supply, \$175 OBO. Call John Long at 744-7647. (10)

Collins KWM-2 HF xcvr w/Collins 312-B-4 station control, Hallicrafters PS-500C pwr supply, 414A mobile mike, Shure 444D mike. Vic-20 w/ Ramax (28,159 free bytes), Hamtext, 40-80 column board, Touch Typing Tutor, and 6 tapes including Personal finance, Loan/mortgage calculator, Vic Typewriter, word processor, Home Inventory, and Expense Calculator, plus publications. \$500 takes everything, Collins and computer. Call Bob, WA6KZN, 729-4504. (11)

Hustler HF mobile antenna w/resonators for 40-10M. Collins SM-3 mike, \$60. Call Allen, N7AMR, at 434-5656. (11)

Drake TX-4B HF tx, RX-4B HF rx, pwr supply, all for \$300. Call Bill, W6VDA, at 466-4234. (9)

Hallicrafters S-38, S-38E, and S-120 rxs. Heathkit SB-100 HF xcvr, Atlas 210 HF xcvr w/AC pwr supply and mobile mount, Heathkit HW-101 HF xcvr w/AC supply, spare 6146s, turner mike, all documentation, and swr bridge; Heathkit SB-610 monitorscope. A scanner, marine xcvs, Johnson 6 and 2 transmitter. These are club items. Make an offer! The Club also has 8' copper clad, commercial grade ground rods w/clamps @ \$10 each. Call Stan, W9FQN, at 749-0276.

Azden PCS-2000 2M FM xcvr w/PL. Owner desperate. Reasonable offers OK. Will trade - or anything. Call Trader Bob, WA6GYG, at 941-2824. (11)

Fred Schnell, W6OZF, has the estate of W6AQP for sale. It includes the Swan 600T/600R combo Atlas 210, and other items. Phone 724-0868. (11)

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in December: WB6NPI, N6DSU, N6DSX. January: N6KGI, W6IRM. February: N0NE. March: WLE.

VOLUNTEER EXAMINERS PROGRAM

I know I speak for the entire north county VE Team when I express our exuberance and pride in being a part of this amateur radio-related public service. I only wish each of you could see the responses of the applicants

when they are informed they have been successful in upgrading, or in becoming licensed.

We continue to iron out the wrinkles in the VE testing. It is a program of change, growth, and settling in. For those who desire to be (re)tested, please see details elsewhere in the Scope. Your Form 610 must be completed in pen, not pencil.

At the November 9th session, two of our club members upgraded: Benton Caldwell, KB6JAN, to Technician; and Carl Callender, N6KGI, to Extra Class.

We offer Benton and Carl our sincere and hearty congratulations. Volunteer Examiners were: W6DEY conducting the CW exams; K6ROR manning the front desk; KS6S helping me; and W6YYV, K6TQ, and W6HAW serving as Examiners.

Thanks to all and to Vina de Montegre, who is so faithful in picking up the key and opening the hall. Since the inception of the VE Program, our team has tested 87 applicants. Many of them have been tested more than once, and of the 87, 67 have achieved success.

de Pat, N6INN

AMATEUR LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon and at the North County Blind Activity Center, 250 E. Grand Ave., Escondido, both on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination must send a S.A.S.E. and a completed, signed, Form 610 (dated 6/84 or later) and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92041 ten days prior to the testing date. 610s may be obtained from the FCC office in La Mesa, phone 293-5478, or from the Club Secretary (members only). Applicants must bring original license and code certificate (if any) on the day of the exam. NO "walk-in" examinees accepted.

JOIN THE ARRL! Do it via the PARC and the Club will get \$2 which would otherwise go to Gnuington (CT 06111, that is). Won't cost you a silly sou more than if you had rashly gone off on your own, either. Just make your check payable to the Palomar Amateur Radio Club and get it to "Treasurer John" care of the P.O. Box 1603 address in the masthead, or hand it to him at the next club meeting. The Tab is \$25 per year, two years for \$47, or three for \$65. If you're not an ARRL member, why not? Who else have you got lobbying for your hobby? The Club gets \$5 for each new ARRL member who signs up via the Club.

SURPLUS GOODIES at HIGHWAY COMPANY, 305 W. Wisconsin Ave., Oceanside. See ad this issue. Aluminum, brass, copper stock at Escondido Sales yard, 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, NiCads at Industrial Liquidators, 4887 Convoy St., San Diego; and at Gateway Electronics at 4633 Convoy St.

DOWN THE TOOBE

Congratulations to Del Partridge, N6MSC, on up-grading to General Class; and for his new call sign. Del, by now, has gone out and bought a complete new station.

Mike, N6MMP; and Tom, N4KRA, stepped in and did a fine job the first time out as NCS on the NCTN. Well done.

Jay, W6FAY, reports a new (to us, anyway) source of surplus goodies. Jay says he found gel-cell batteries at very reasonable prices at Anchor Sales on 7th Street just below Market in San Diego.

Packet Radio is certainly taking off! Pakratt, the AEA PK-64 Packet, RTTY, AMTOR, CW, unit, has hit the the market and is going like hotcakes. We're hearing noises that N6GNB, N6GWJ, N6LYX, N6IE, N6YX, W6TFB, K6BPT, W6JSP, KA6HZF, KA0RGQ, and others too humorous to mention are off and running. Better get it and get with it.

W9FQN, W6TFB, and KA0RGQ, acting as the Club's Survivors' Committee, dismantled the station of silent key Jim Faughn, WD6ENK. Thanks.

Henry Kirschner, WB0YCQ, of 266 Carissa Dr, San Luis Rey would like to start a 6M FM rag chew net on 52.660 MHz. No phone number given.

"That's all", she wrote.

WAOABX Williams, Bill	Escondido CA	W2FWV Levesque, Will	Carlsbad CA
W6AFZ Steelman, Robert	San Diego CA	W6FXL Goepfinger, Albert	Escondido CA
WD6AHX Dewey, Wayne	Oceanside CA	KD6FY Belfield, Scott	San Diego CA
KB6AI Rowlett, Guy	Oceanside CA	N6FYI Rice, Leroy	Vista CA
KB6AIW Miller, Yvonne	Escondido CA	NZ6G De Plomb, Eugene	Rancho Santa Fe CA
NOAL Cassel, Alan	Marietta GA	KA6GHE Patchel, Judith	San Diego CA
N7AMR Willett, Allen	Carlsbad CA	K6GJD Salter, Bill	Vista CA
WA7AMS Specht, Ernie	Vista CA	N6GJW Folsom, Russ	Ramona CA
N6AT Cassen, Frank	Fallbrook CA	KF6GN Randall, Larry	Poway CA
W2AUO Shaut, Stanley	San Diego CA	N6GNB Fahnestock, Albert	Escondido CA
K6AYJ Nichols, Edith	Fallbrook CA	W9GNI Witting, Martin J.	Oceanside CA
WB6AZQ Haynes, Charles	Pauma Valley CA	K6GRS Esterly Jr, Harold D.	San Diego CA
WI6B Wilhelm, Ron	Rancho Santa Fe CA	N6GRB Myers, Jeff	El Cajon CA
N6BAD Reber, John	San Diego CA	KA6GRG Calvert, Chuck	Vista CA
KX6BE Martin, Alan	Encinitas CA	WA7GRW Traynor, Bob	San Diego CA
WD6BEZ Gonsett, Judy	Encinitas CA	K66GW Ames, Russ	San Diego CA
KE6BH Countryman, Bill	Oceanside CA	N6GW Wenz, Gordon	San Diego CA
WB6RHE Harvey, Vanessa	San Marcos CA	N6GWJ Fahnestock, Mickey	Escondido CA
W6BHF Dobler, Ray	Poway CA	WB6GXR McBride, Willert 'Mac'	Lakeside CA
K7BHI Lowe, Stan	Fallbrook CA	KB6GYG Good, Gene	Vista CA
KB6BIL Shifflet, Wm. C.	San Diego CA	WA6GYG Craik, Robert B.	Vista CA
W6BLI Williams, Jack	Carlsbad CA	N6GZI Ross, Ed	San Diego CA
WD6BNX Dean, Robert K.	Valley Center CA	K6HAV Crossman, Ralph	Vista CA
WD6BRX Brouillet, Paul	Escondido CA	W6HAW Olsen, Irving 'Boots'	Vista CA
WA6BSD Lang, Steven	Escondido CA	W6HC Hodgson, Charles I.	San Diego CA
W6BXJ Coup, Bob	Vista CA	W6HCD Williams, Nash	Bonsall CA
N6CKQ Broadbent, Louis	Solana Beach CA	KB6HCH Buckner, Mary	Vista CA
K6CLU Leak, Earl	Vista CA	K6HE Sandberg, Sandy	Escondido CA
KH6CN Harper, Jim	San Diego CA	WB6HHV Brock, Michael	San Diego CA
N6COU Whipple, Bill	Oceanside CA	KE6HI Bourhenne, Alma	Cardiff CA
NOCP5 Paschke, Vern	Santee CA	KB6HIA Reed, Geneen	El Cajon CA
WA1CSO Silveira, Joseph	Vista CA	W7HKI Larison, Larry	Oceanside CA
KB6DEM Ross, Judy	San Diego CA	WB6HMY LaPointe, Joe	Oceanside CA
W6DEY Maxson, Roy	San Marcos CA	K7HOE Mattson, Clarke	Vista CA
KB6DGR Mahoney, Betty	Chula Vista CA	WA6HQM Copley, Dave	Encinitas CA
KB6DKR Pennington, Walter	Oceanside CA	WB6HSZ Campbell, John	Vista CA
KB6DNR De Montegre, Larry	Vista CA	W6HW Baumsartner, Vern	Oxnard CA
W6DOL Janssen, Hal	San Diego CA	KB6HWE Dillinger, Mary	Escondido CA
KE7DR Tuttle, Dora	Mesa AZ	WA6HYB Push, D. C.	Oceanside CA
KB6DSC Bruin, Betty B.	San Diego CA	WA6HYC Watt, Bill	Oceanside CA
N6DSU Healey, Wilma	La Jolla CA	W6HZJ Krebs, Russ	Fallbrook CA
N6DSX Healey, Thomas	La Jolla CA	WA6IBB Matthews, Auldrie J.	Aguanga CA
N6DVL Dempsey, Ralph	San Diego CA	N6IE Ferranto, Felix	Vista CA
W6DWE Kirkpatrick, Claude L.	San Diego CA	KB6IGO Rogers, Stephen	San Diego CA
KA6DWU Burton, Doc	San Marcos CA	KB6IGP Rogers, Gayle	San Diego CA
WA6DYV Swader, John B.	Fallbrook CA	W6INI Smith, Art	San Diego CA
N6ELP Crumpton, Dee	Encinitas CA	N6INN Crossman, Pat	Vista CA
N6ENI Poole, Barry	Vista CA	WA6IPD Rideout, Art	Fallbrook CA
N6EQB Miller, Raymond	Fallbrook CA	WA6IPF Stack, Paul J.	Vista CA
WA6ESG Castagna, Ed	Vista CA	W6IPQ Chase, Herbert E.	Chula Vista CA
N6ETH Merritt, Robert	Lemon Grove CA	KB6IWA McCollum, Ross	San Diego CA
W6EVL Nichols, Art	Fallbrook CA	WB6IRS Kuivinen, John	Vista CA
NOEVV Paschke, Mary	Santee CA	W6IRM Inskeep, Chuck	Oceanside CA
W6EYP Lincoln, Warren	San Marcos CA	KB6ISU McKinney, Stephen B.	Rancho Santa Fe CA
WA6EYX Way, Ed	Escondido CA	W6IUG West, Richard O.	San Diego CA
W6FAY Carr, Jay	Escondido CA	WA6IWK Patchel, Herbert	San Diego CA
W6FET Stovall, Herb	Fallbrook CA	NC6J Chambers, Bob	San Diego CA
N6FGE Stiggall, Frank	El Cajon CA	KB6JAN Caldwell, Benton	Carlsbad CA
KG6FK McCoy, Donald C.	La Jolla CA	WA6JCG Browne, Bob	San Diego CA
KB6FMJ Nida, Ted H.	Vista CA	W6JLW Rustin, Charles	El Cajon CA
N6FMK Bowen, Bill	Vista CA	WA6JPM Mocabee, Dave	Fallbrook CA
KA6FPS Rohrer, Barbara	Valley Center CA	W6JSF Harvey, Floyd	San Marcos CA
W9FQN Rohrer, Stan	Valley Center CA	N6JTT Botieff, Dave	Vista CA
W6FQV Dussault, Don	Fallbrook CA	WB6JVS Rouse, Harry A.	Oceanside CA
W6FTV Falls, Edward L.	Fallbrook CA	KB6JWM Blackmore, F. Bill	San Marcos CA
WD6FWE Johnson, Don	Oceanside CA	KB6JWU Sabino, Angel	San Ysidro CA
K3FWT Divecchio, Mark	San Diego CA	N6JZB Cook, Wally	Carlsbad CA

WF6K	Dillinger, Paul	Escondido CA	KE6QV	Fay, Charlie	Oceanside CA
W9KEX	Watson, Jerry	San Marcos CA	K6QXW	Blair, Bill	Solana Beach CA
N6KGI	Callender, Carl	San Diego CA	WB6R	Stedman, Duane	Cardiff CA
N6K GK	Willis, Lee	Oceanside CA	K6RF	Cullian, Ted	Oceanside CA
N6KHF	Gatlin, Tom	Vista CA	KAORGO	Buckner, Bill	Vista CA
N6KI	Vernacchia, Dennis	San Diego CA	K6RDR	Schutze, Phil	Vista CA
N4KRA	Merz, Tom	San Diego CA	WB6RSG	Tennyson, Thomas	Santee CA
N6KVY	Wong, Dennis	San Diego CA	K6RTD	Maynard, George	Vista CA
N6KWC	Pakus, Paul J.	Ramona CA	K2RTQ	Hassell, Nathaniel W.	San Diego CA
WA6KZN	Heitger, Bob	Carlsbad CA	KM6S	Samuels, Joan M.	San Diego CA
WF6L	Leonelli, Phil	Oceanside CA	KS6S	Rice, Bob	Oceanside CA
K6LBC	Jadovitz, Jerry	El Cajon CA	W6SAX	Parker, Marsh	San Diego CA
W1LE	Hay, Dick	San Diego CA	W6SE	Martin, John	Encinitas CA
WB6LEH	Riseley, Jim	San Marcos CA	K6SLA	Church, Jim	Vista CA
N6LEZ	Litchman, Tom	Vista CA	WB6SML	Horsan, John	San Diego CA
N6LGP	Hutchins, Frank	Oceanside CA	W6SMP	White, Jack	Palm Desert CA
K6LNJ	Pearce, Art	Oceanside CA	WA6SVN	Wandschneider, Herb	Oceanside CA
WA6LUX	Garner, Ray	San Diego CA	WM6T	Tilley, Aubra	Pauma Valley CA
N6LVN	Reed, Rod	El Cajon CA	WB6TBA	Gates, Bob	Carlsbad CA
N6LYX	Earl, Gerald R.	Poway CA	WB6TBR	McCord, Billy	Vista CA
WB6MEI	Hammond, John	San Diego CA	W6TCI	Williams, Harry	Vista CA
W6MFT	Nielsen, Will O.	San Diego CA	KG6TD	Saunders, Chuck	San Diego CA
KB6MI	Smith, George	National City CA	W6TET/WB6OIXSD	Mtn Res Team,	San Diego CA
N6MMP	Fisher, Mike	Ramona CA	W6TFB	Hunt, Lloyd	Oceanside CA
N6MMS	Jones, Robert W.	San Marcos CA	W6THS	Pottberg, Gene	Escondido CA
N6MOI	Earl, Cindy	Poway CA	W6THU	Paul, Floyd	Glendale CA
N6MOU	Littlefield, Charles	Vista CA	K6TQ	Taylor, Wm. H.	Vista CA
N6MQV	Nielsen II, Will O.	Vista CA	WB6TRF	Halyburton, Alex	San Diego CA
N6MSC	Partridge, Delmar E.	San Diego CA	W6TXK	Earl, Ronald C.	San Diego CA
KB5MU	Williamson, Paul T.	San Diego CA	W6TZV	Crispell, Hal	San Diego CA
K6MXM	Chico, Earl	Escondido CA	W6UAF	Young, Fred	San Marcos CA
WA6MXM	Hammond, Brian	San Diego CA	KF6UB	Drey, Joseph	Chula Vista CA
N6NA	Smith, Marvin	Vista CA	WA6UBG	Wilson, Wesley	Vista CA
W6NFG	Mandy, Bill	San Diego CA	W6UUJ	Bartels, Harold	Vista CA
WB6NIG	Breyer, H. D.	Oceanside CA	W6VDA	Vlymen, Bill	La Mesa CA
WB6NIJ	McLaren, David	Vista CA	KH6VO	McManis, Jim	Santee CA
WA6NNC	Rivera, Bob	Vista CA	WB6WON	Bann, Gary	San Diego CA
WB6NPI	Alu, Leonard	Vista CA	WB6VSG	Janko, Noel R.	San Diego CA
W4NYU	Gates, Howard	Santee CA	KG6VX	Lincoln, Chester "Bud"	Leucadia CA
WA6OAR	Hammond, Randy	San Diego CA	WB6VYC	Chambless Jr., Burr	San Luis Rey CA
WB6OBH	Mayer, Pete	San Marcos CA	WA6VYD	Chambless, Burr	San Luis Rey CA
WB7OCR	Evans, Lee	Valley Center CA	WB6WGT	Harker, Harland "Hark"	Vista CA
WB6ODR	Smith, Robert R.	El Cajon CA	WB6WGU	Williams, Sandy	Escondido CA
WA6OHB	Wallace, Leona	La Jolla CA	K7WLX	Felton, Bob	Carlsbad CA
W5OI	Henderson, George	Fallbrook CA	W6WPD	Priest, Bill	Vista CA
W6OKG	Glaser, Peter	Laguna Beach CA	WB6WRI	Null, Ed	Vista CA
W6OLQ	Tentor, John	San Diego CA	KD6WX	Patchel Sr, Herbert	San Diego CA
W6OML	Powell, Richard	Vista CA	KZ6X	Buscema, Paul	Encinitas CA
KA8OUD	Zusack, Mike	Vista CA	KE6XF	SILENT KEY	San Diego CA
W6OVP	Lien, David A.	El Cajon CA	K6Y GK	Uminski, George	Del Mar CA
K6PBE	Brolon Jr, Boyd	La Mesa CA	KA6YJH	Rissen, Judith	San Diego CA
W6PEU	Garlow, Britt	Fallbrook CA	W6YST	SILENT KEY	San Diego CA
KA7PII	Traynor, Judy	San Diego CA	WB6YVT	Golden, Chuck	Oceanside CA
W6PNT	Olsen, Fred	San Diego CA	W6YYV	Burdette, Sam	Oceanside CA
K6PP	Horrall, Gene	El Cajon CA	AD6Z	Rice, Jane	Oceanside CA
KD6PP	Krusen, Don	Santee CA	AK6Z	Lee, Gayle	Vista CA
KA6PPD	Heisman, Paul	Vista CA	NG6Z	Denton, William H.	Lakeside CA
KA6PSH	Miller, Raul	Escondido CA	KD6ZA	Kimball, Chuck	Chicago IL
K6PZE	Gird, Dick	San Diego CA	WB6ZJZ	Gibbs, Charley	Oceanside CA
WA6QBO	Williams, Richard	San Luis Rey CA	WA6ZKC	Wolfe, Emily	Solana Beach CA
K6QCW	Barber, John	Ramona CA	WA6ZKD	Wolfe, Stan	Solana Beach CA
KB6QF	Horrall, Maurice	Vista CA	ASSOC.	De Montedre, Vina	Vista CA
KA6QFF	McCormick, Matt	Vista CA	ASSOC.	Enders, Marlin	San Diego CA
K2QGT	Guthrie, Tom	San Diego CA	ASSOC.	Henderson, Loretta	Fallbrook CA
W6QF	Forbes, Jack	Vista CA	ASSOC.	Kavan, Mrs. Edith	Encinitas CA
WA6QQQ	Gonsett, Bob	Encinitas CA	ASSOC.	Lord, John K.	Vista CA
WA6QQW	Lenci, Andrew	Ramona CA	ASSOC.	Miller, Barbara	Vista CA
N7TA	Friend, Larry	Ranchita CA	N6YX	Bell, Bob	Escondido CA
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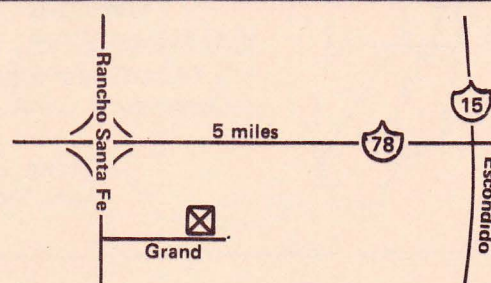


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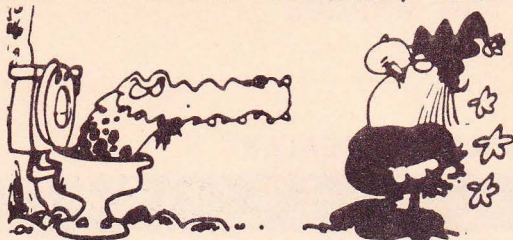
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