

NORTHERN SAN DIEGO COUNTY



THE PALOMAR AMATEUR RADIO CLUB, INC.

 POST OFFICE BOX 1603
 VISTA, CALIFORNIA 92083-0530

W6NWG

Scope

VOL. XXI, 1

1936 - 1986

JANUARY, 1986

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
 VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista 726-0353
 SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
 TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe, 756-3133

NOTICE! NOTICE! NOTICE!

THE JANUARY CLUB MEETING WILL BE HELD ON WEDNESDAY, JANUARY 8TH, IN THE CHERRY ROOM OF THE MOUNT VERNON INN, 510 WEST MISSION JUST OFF OF CENTER CITY PARKWAY IN ESCONDIDO. PAY ATTENTION. SEE MAP, PAGE 8.

---PRESIDENT'S MESSAGE---

Our club membership is now 290 and climbing. Our meeting attendance in 1983 was 648, and in 1984 682. In 1985 we again increased our attendance to 804 for the whole year. At our last meeting we had 95 people sign in and several who did not. With increased membership we will be confronted with different problems than in the past, but we should also have additional opportunities. We are going to need more helpers this coming year, and I would appreciate it very much if you would let me know if you would be willing to help the Club in any way.

We also have increased the use of the 146.730 repeater during morning and evening mobile hours, so that we are going to have to use short transmissions and encourage those out there "lurking" to join those using the repeater. Duane, WB6R, has done an excellent job as "net control" during the mornings when he is available, and others of you have stepped in to do the job when Duane is away. Remember to leave "space" between transmissions. We hope that our new 450 repeater will help relieve the pressure on the 2M machine. We should also remember that the 220 Club of San Diego operates WD6HFR/R, an open, carrier-operated repeater on 224.900 MHz (-). It is co-located with W6NWG/R. The 220 Club has kindly extended the use of their machine to PARC members. The 220 and 450 repeaters are very quiet compared to our 2M machine so if you feel "crowded, you might want to give 220 and 450 a try or spend time on our digipeater on 145.050. All four repeaters have essentially the same coverage of the county.

Most of our members live in something called "San Diego" (22.3%), Vista (19.8%), Oceanside (9.9%), Escondido (6.2%), Fallbrook (5.5%), San Marcos (4%), El Cajon (3.3%), Carlsbad (2.9%), Encinitas (2.9%), and Santee (2.2%). The top ten contain 79% of our membership with the remaining 21% spread throughout San Diego and other counties and states.

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

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corner of East Vista Way and Anza in Vista. Visitors welcome.

THE JANUARY MEETING: WHICH WILL BE HELD ON JANUARY 8TH, will feature Packet Radio with guest speakers Bob Hoover, KA6HZF, and Paul Williamson, KB5MU. This program will give all of us who are just into, or want to get into, Packet Radio, a chance to ask some of those basic questions on getting started. You WILL be able to see what goes on this time, and a Packet station will be up and running for you.

SHOW AND TELL: Phil, WF6L, will have his X-Panda-5 antenna adapter for multi-band mobile operation on display.

COFFEE AND GOODIES: The usual great coffee by Vina, who says thanks to all who brought goodies to the December meeting and made it a fun and full filling get together. Goodies ARE NEEDED for the January meeting. Vina also needs folks to sign up to bring tasties for the meetings for the months to come.

AT THE DECEMBER CLUB MEETING: Dave Guimont, WB6LLO, gave us a most informative talk on amateur radio communications via satellites; Ron, WI6B, showed us a home-brew collapsible 2M Yagi; Stan, W9FQN, showed us the Double Ducky Direction Finder; and we voted into office the slate of officers listed in the masthead, above. John Tentor, W6OLQ, outgoing Treasurer, was thanked for the years of devoted service he has given the Club in that position. WB6HMY was the big winner of the evening when he took home a GI'NT soup bone for Chico, the four-legged piranha. (This may have been a plot by some of our tender-ankled club members to buy Chico off - although the lack of an odor of oregano tends to rule out WF6L and N6KI, two notoriously thin skinned, soft shinned members of Italian descent.) N6GZI was awarded the appropriately engraved straight key left to him by K6NS. All of us enjoyed the many tasty no-cal goodies baked or bought and brought by so many fine folks. Vina's coffee was great! It was a very festive evening, and we had 95 present!

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 personal ads to Ralph Crossman, K6HAV, P.O. Box 73, Vista, CA 92083-0030 by Monday of the week two weeks prior to the next club meeting. SUBSCRIPTIONS, MEMBERSHIPS, AND ALL OTHER CLUB CORRESPONDENCE to the P.O. Box 1603, Vista, CA 92083-0530 address.

THREE REPEATERS, all W6NWG/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and the output is 449.425. The 450 MHz machine is often on tone squelch (PL 3A). The third is a Packet Radio Digipeater on 145.050 MHz. They are 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 are: KB6AI, KB6DNR, W9FQN, K6HAV, WA6KZN, KB5MU.

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

REPEATER

We hope to soon replace the faithful Standard repeater we've been using for nearly 10 years. It's done very well by us - thanks to the efforts of

K6ROR and WB6IQS, but it's time for a change. Two used Motorola "MSY" repeaters were bought for \$350 each and are awaiting the channel elements to be crystallized up for 444.425 and 449.425 MHz. John, WB6IQS, reports both of the repeaters are in operating condition awaiting delivery of the channel elements about the first of the year. These machines will be capable of battery operation in an emergency - which means that all of our repeaters will have that capability.

The MSY repeater we do not install may be sold. We have a prospective buyer for it.

Thanks to K6ROR, WI6B, WB6IQS, WA6KZN, W9KEX, N6FMK, N6INN, and K6HAV, who contributed to the purchase and outfitting of the new 450 repeater. Club members and 450 repeater users who want to further help subsidize the new machine can get their checks to the Treasurer. Earmark them "450 repeater".

NEW SCOPE SIZE

(The new, compact cheap size)

At the instigation of our Fearless Leader, this month we're trying out Letter Size paper instead of Legal Size for the Club's notoriously, nasty, nattering newsletter. If you don't like the new size, say so and we'll do as we darn please, as usual.

NUDE AND REGNUED MEMBERS, NEW CALL SIGNS

NEWED MEMBERS are: Harry Bluestein, N6TE, La Jolla; Clint and Eleanore Call, W6OFT & WB6OJL, Carlsbad; Henry Kirschner, WB0YCQ, San Luis Rey; Ed Jankowski, W6KCB, Valley Center; Bob Bauersfield, KF6LP, Solana Beach; Jerry Balke, W6YLA, Vista; David Schoen, N2KK, San Diego; Doug Gordon, K6PUN, Los Angeles; Mike Hamann, WB6CSH, Del Mar; Carl Langjahr, W6DNX, Oceanside; Marcel Siemons, KB6VQ, Ocean Hills.

RENUDE MEMBERS: Bill Cunningham, N6GSS, from the depths of De Luz Canyon (outback of Fallback); Skip Skinner, K6BPT, also a Fallbrookian.

NEW CALL SIGN: Angel Sabino, N6MUA from KB6JWU.

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 January meeting will take place at the W9FQN QTH.

AT THE DECEMBER MEETING, which was held at the home of K6HAV: The Committee voted to set aside, until the January meeting, the decision on whether to sell or retain the second "MSY" 450 MHz repeater; and to continue the Packet Voice Net indefinitely. It was decided to try the Scope on 11" long paper versus 17" so that we'd only have to fold it once and so that it will fit W9FQN's file folders. Stan reported on the on-going effort (five years of on-going) to reduce the coverage area of the former WA6NUD/R, now K0JPK/R, to exclude San Diego County. Stan reviewed the correspondence sent to TASMA and other parties and entities; and the total lack of any written response thereto.

SICK CALL

Boots, W6HAW, is back home recuperating from a serious heart attack suffered the Friday before Thanksgiving. He reportedly had a nine-day stay in the CCU at Tri-City Medical Center.

Guy, KB6AI, has been under the weather but is back "in battery" now.

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FORESAIL

(The halyard you say)

AEA CP-1, Hamtext, Dr. DX, all for C-64. Call Paul, KZ6X, at 436-2537 (HP) or 753-0026 (WP). (1)

TAPR TNC-2, Revision 1, only two months old, completely assembled and on the air. First \$190 takes it. Call Albert, N6GNB, at 741-1840. (1)

Hammarlund HQ-170-Q, HX-50-A HF rx and tx. Call Hal, W6JPB, 745-8872. (1)

BC-610 WW II HF AM/CW tx. Call Don WD6FWE, 757-3241. (1)

Drake NB-7 noise blanker, new for TR-7 xcvr, \$65 ppd; also Aux 7 board for same with general coverage mod, \$75 ppd. Call/write Tony Musero, K3UKW, 1609 S. Iseminger St., Philadelphia, PA 19148, phone 215-271-8898. (1)

CW/RITTY 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)

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)

Drake WH-7 HF wattmeter, \$40. Call Earl, K6MXM, at 743-0860. (1)

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)

Palomar Engineers automatic keyer, \$75; Kenwood AT-230 antenna tuner, mint, \$110; Daiwa 4-position coax switch, \$35; Daiwa 2-position coax switch, \$20; Swan SWR/field strength meter, \$12.50; Hustler HF mobile antenna w/resonators for 40-10M. Call Allen, N7AMR, at 434-5656. (1)

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, 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.

Fred, W6OZF, 724-0868, still has much gear from the estate of W6AQP including an Atlas 210X and 350XL, and a Swan Mk II amplifier.

WANTED!

(Chloe!)

Drake MN 2700 or MN2000 ant tuner. Call Tony Musero, K3UKW, at 215-271-8898.

A maximum-minimum thermometer for the repeater building. Call W9FQN.

ICom IC-22A in working condx and/or other xtal controlled solid state rig. Crashed and injured KLM KT-34A or XA for parts. Call Dennis, N6KI, at 271-6079.

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in January: W6IRM. February: N0NE. March: W1LE.

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., a completed and signed (in ink) 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.

GLENDAL FED IS SURE NICE TO US. LET'S BE NICE TO GLENDAL FED.

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 Ron" 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.

OUR ADVERTISERS SUPPORT THE CLUB. LET'S PATRONIZE OUR ADVERTISERS.

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.

IF YOU CAN'T SELL IT, or don't want to haul it to TRW, the Club will be happy to take your surplus items and sell them to enrich the Club's equipment fund (to give us the means to refurbish repeaters, antennae, feedlines, etc. Contact any of the club officers to make arrangements to unload your surplus TS-940-S or KWM-380.

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VOLUNTEER EXAMINERS PROGRAM

de Pat Crossman, N6INN

We have been notified that SANDARC continues to receive unsolicited letters from hams who have tested with us, expressing their thanks for the comfortable way the program is run. Of course we: (1) encourage the applicants to keep the appointment, and (2) try to put them at ease. Beyond that, we can do little. They must take the tests for themselves, and they must be prepared. For those to desire to be (re)tested, please see details elsewhere in the Scope.

At the December 14th session, EVERYONE came away with something: Larry de Montegre, KB6DNR, and Walt Pennington, KB6DKR, (you sure have to watch those D_RS) earned EXTRA CLASS; Steve and Gaylee Rogers, KB6IGO & KB6IGP, upgraded to General Class; and Steve McKinney, KB6ISU, took home a certificate for 13 wpm. Two non-club members were also successful in up grading. Our sincere congratulations.

Volunteer examiners were: W6DEY conducting the CW exams; KG6VX on the front desk; W6YYV, N6KI, and K6HAV monitors and assisting me; and N6IE, AD6Z, and WI6B serving as examiners. It couldn't have been done without you. Special thanks to Max, W6DEY, who expended his own time and funds to construct devices to provide individual audio level controls for four sets of headphones (he provided the headphones too!) to make for better CW examinations. They work too. Ask KB6IGO and KB6IGP!

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 MHz at 2000 local to handle formal written traffic. Visitors are welcome. Here's your chance to try your hand at traffic handling in a friendly atmosphere. Give it a shot.

THE SAN DIEGO COUNTY PACKET RADIO VOICE NET meets on 146.730 at 2100 local on Tuesday. All, beginners as well as old hands, are welcome to join in and learn about Packet Radio.

+++++

WADE MOORE, KE6XF, SILENT KEY

We are saddened to report the passing on November 19 of Wade, KE6XF. Wade's cheery greetings, his helping hand and smiling presence will be missed.

+++++

DOWN THE TOOBE

REMEMBER, THE JANUARY CLUB MEETING, ONLY, WILL BE HELD ON WEDNESDAY THE 8TH IN THE CHERRY ROOM, MOUNT VERNON INN, Escondido. See first item, page one.

The Club thanks Bill, W6VDA, for his donation of a Heathkit 2M FM xcvr; and John, WB6IQS, for repairing it. Likewise, thanks to Lorene Cornell for the donation of a TV set; to Buck, KA0RGQ, for transporting it; and to Paul, KZ6X, for donating the parts and doing the the repair on it. It sure is a good feeling to belong to a club which has so many talented and giving members. Good people just seem to step forward and do what they can without urging. Thanks to you all.

We're certainly glad to welcome charter PARC member Clint Call, W6OFT, back into the Club, particularly in our 50th Anniversary Year. Clint's been keeping a sked with former member Bill Jago, K7MO, in Oregon; and past President Bill Driml, W6NAT, in Fort Dick, CA.

Speaking of W6NAT, K6CLU says that Bill started out for the ham

convention in Long Beach this past summer, but lost a front wheel near Willits and only the guard rail saved him from going over the side. He rented a car and drove on down but didn't have time to come down to Vista.

Dennis, N6KI, was awarded a belated guy line for his tower at the December Club meeting. Seems as though he lost the tower and the beam back in one of the capricious early winter storms in November. A SCOPE put a new tower up for him, and he is now getting ready to put some antennae on it.

Not to be out done, John, WB6MEI, got racked up by the early December storm which put the 163 Freeway out of commission during the evening rush hours. John's description of the storm's action made it sound like a gi'nt vacuum cleaner had lifted the tower up and then slammed it back down. He too is going to have to put up a whole new system.

N6GSS, W9FQN, K6GJD, KG6VX, and K6HAV gave George, W5OI, an assist in getting his mast up. Next, the antenna and George will be on the air from his QTH in Fallbrook.

Thanks to N6GZI and N6KI for getting an antenna up for Hal, W6DOL. Hal is now full quieting into W6NWG/R now.

With all the interest in Packet Radio, wouldn't it be nice if we could talk KB5MU, into giving us a short Digital Communications column in the Scope? Beginners like me, as well as the whiz kids, could profit from it. How about it, Paul?

A letter Bob Gonsett, WA6QQQ, received states that the long-standing QST policy of not printing antenna gain information has kept his article on the test of HT antennas (SCOPE, 9/85) from appearing in that magazine. Too bad, since it was certainly info many might have been glad to see prior to spending their \$\$\$ for expensive dummy loads.

Don't forget to sign the Sign In Sheet at club meetings, Field Days, picnics or other Club-sponsored affairs. Each sign in will get you one ticket for the drawings at the club picnic.

HAPPY NEW YEAR!

"That's all", she wrote.



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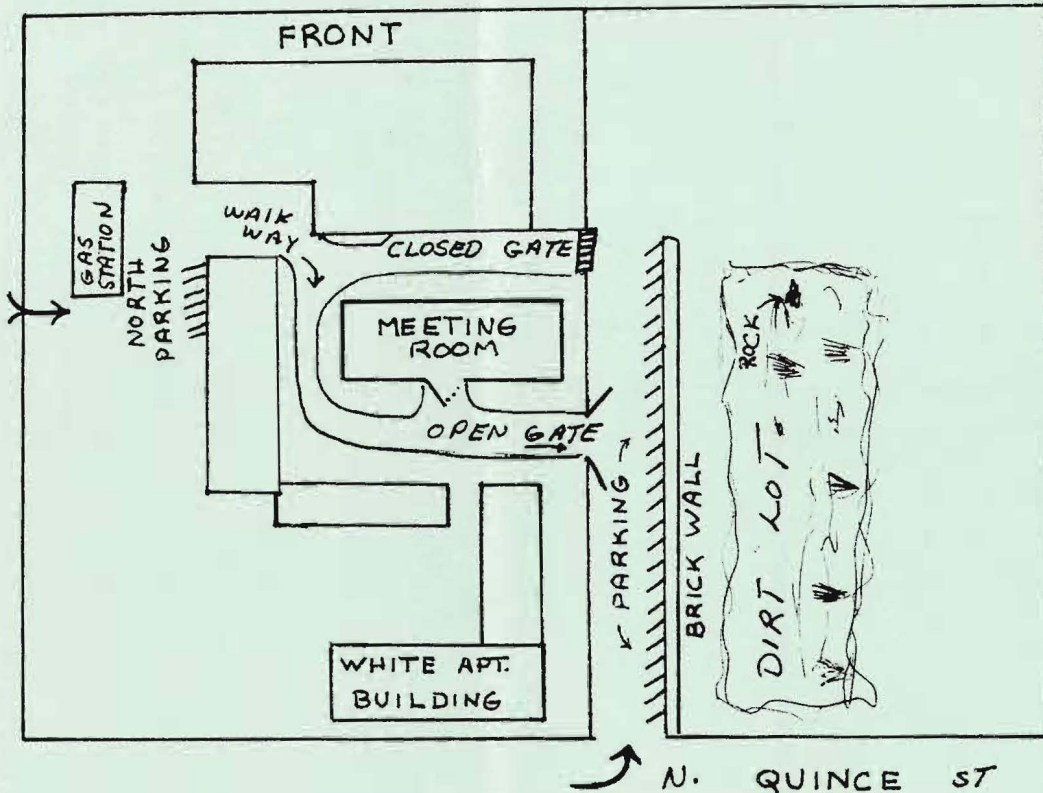
KB6DNR

MAP TO JANUARY CLUB MEETING.

← CENTER CITY PKWY →

JACK IN
THE BOX

MISSION AVE.



WASHINGTON ST.

N. QUINCE ST

K-MART

501 W. MISSION AVE, CITY OF ESCONDIDO

- BEST TO COME IN FROM THE BACK SIDE
- COME IN OFF OF N. QUINCE ST.
- ONLY ONE GATE IS UNLOCKED.
- IF YOU WANT TO PARK IN THE NORTH LOT COME IN BY GAS STATION.
- CALL IF YOU GET LOST. 745-6100



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from the gang at HRO —

Glenn K6NA, Mgr.
Gary K6CAQ
Art N6MLH
Brent KB1UK

— and sincere thanks to the Palomar Amateur
Radio Club members for your past and future
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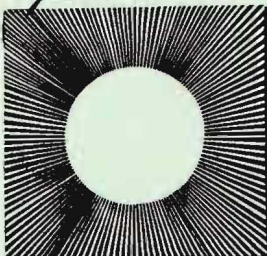
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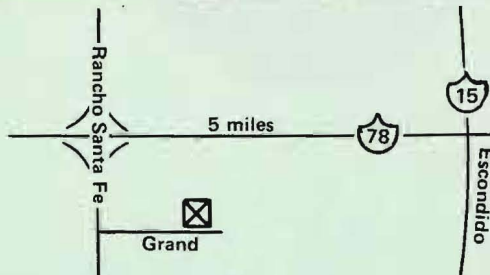
FOR A VERY HAPPY HOLIDAY SEASON

AND A PROSPEROUS NEW YEAR

FROM — **MERIT W6NLO**

FLOYD W6JSP

BOB KA6HZF



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Sat: 10-2

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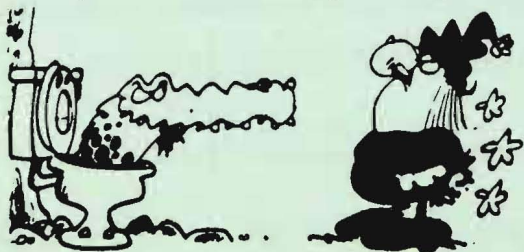
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W6NWG

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ADS & MATERIAL FOR SCOPE to P.O. Box 73, Vista, CA 92083-0030. Deadline is normally Monday of the week two weeks before the club meeting.

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OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. 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).

THREE REPEATERS, all W6NWG/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and output is 449.425 MHz. The 450 machine is often on tone squelch (PL 3). The third is a Packet Radio Digipeater on 145.050 MHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Repeater control ops: KB6AI, KB6DNR, W9FQN, K6HAV, WA6KZN, KB5MU, 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. Apply to Joe, WB6HMY.

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

* * *

* * * COME OUT AND HELP US CELEBRATE OUR FIFTIETH ANNIVERSARY * * *

* * * * *

Feb 86

---FROM THE PRESIDENT---

"The early 1930s America was still deep into the terrible depression. Herbert C. Hoover was President, and Franklin D. Roosevelt was about to be elected to the presidency of our great country. We were a nation of 48 states."

So begins the history of the Palomar Amateur Radio Club by the Club's Historical Committee: W6BLL, K6HAV, and WA6KZN. The Palomar Amateur Radio Club was founded on February 13, 1936, by Fred Elser, W6GVU, and for the first several months was known as "The Northern San Diego County Radio Club."

We hope to have some of our founding fathers present for our February club meeting so PLEASE COME AND JOIN US IN OUR CLUB'S GOLDEN JUBILEE BIRTHDAY CELEBRATION.

73 de Stan, W9FQN

FEBRUARY CLUB MEETING

THE PROGRAM for the evening will be an illustrated presentation on Earthquake Preparedness by beautiful Nancy Kendall of Southern California Edison Company (NO, not SDG&E, SCE). A fine group of facts by a lady who knows she's talking to a seasoned old group of amateur radio disaster experts. Nancy's coming all the way from beautiful downtown Rosemead to talk to you, so y'all come.

SHOW AND TELL will feature a portable non-electrical soldering iron (a real HOT tip so don't try and pocket it); an operating packet station in place before and after the meeting for hands-on experience; Fred Brown, W6HPH, will show us his homebrew universal oscillator with schematics available to those who want them.

COFFEE AND ANNIVERSARY CAKE in keeping with celebration of the evening.

* * *

* * * * * COME OUT AND HELP US CELEBRATE OUR 50TH * * * * *
* * * * *

JANUARY CLUB MEETING

At the January meeting, which was held at the Mount Vernon Inn in Escondido, Bob Hoover, KA6HZF, told us about Packet Radio; and that it is the wave of the future for amateur radio digital communications. Bob, Paul, KB5MU, and Gerry, N6LYX, had working packet stations for our information and inspection. W9FQN announced that the February meeting would be the 50th Anniversary Meeting for the Palomar Amateur Radio Club. KB6DNR was awarded a certificate commemorating the day last Fall when Larry's 2M rig, locked on the air by tiny hands, kept W6NWG/R timed out for several hours. It cost the Club \$50 to rent the hall, but it was spacious enough for our large turnout, although the acoustics were poor. (But KB6DNR's sound system let us hear anyone who was at the mike - it really works!)

* * CONGRATULATIONS TO ALL ON THE FIFTIETH ANNIVERSARY OF THE PARC * *

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the p.m. Club members are welcome to attend and observe.

At the January meeting, which was held at the home of W9FQN, much was discussed and reported, including the increased cost of publishing the Scope on letter-size paper; the repeaters (see following item); the con-

complaints from members of the K0JPK signal into San Diego County; and the disposition of some Club-owned equipment. A nice, sociable evening.

REPEATER

After crystallizing, refurbishing, manufacturing of decoder cards, and tweaking up on 444.425 and 449.425 MHz we hope to soon have the "new" Motorola "MSY" machine on the mountain to replace the old Standard we've used so long.

John, WB6IQS, has done all of the preliminary work to get the MSY repeaters ready for the mountain. The channel elements have arrived from International Crystals, and the tuning up of the repeaters has been done. Perhaps, by the time you read this, we will have a "new" 450 MHz repeater on the mountain. - if all goes well.

WB6IQS has installed a device that beeps every three seconds when the 2M repeater is on battery power. This sounds much like the "courtesy beep" found on some machines to indicate that the time out timer has reset. When this tone is heard on W6NWG/R we must be aware that our use of the repeater should be curtailed to preserve the battery in the case of a lengthy power outage.

We are reminded that we should watch our base to base QSOs during the heavy hours of mobile use: 0630-0830 and 1630-1830. If jamming is observed on the repeater, be sure and see if you can hear the offending signal on the repeater input (146.130 MHz). If you can, announce the fact and your location. If you have a directional antenna, try and determine the direction to the source, of course!

EXPIRING FCC LICENSES

Licenses expiring in February: NOONE. In March: W1LE. In April: KD6WX, WB6JVS. In May: WB6UON, N6EQB, N6GZI, WA7AMS.

If you want to be reminded about your license expiration date, be sure we have it in the Gi'nt Computer. 610 forms are available from the FCC or from the club secretary. Be sure the 610 you use is dated June 1984 or later. No earlier issue is acceptable.

FROM THE ARRL LETTER

Latest call signs issued as of 12/17/85: WN6O, KG6ZR, N6MUM, KB6KKW.

FORESAIL

(All the world luffs a luffer)

Kenwood TS-830A HF xcvr w/ MC-50 mike, mint condx, \$545. Call Art, WA6IPD, 728-6834. (2)

Tri-Ex W-51 51' crankup tower, delivery negotiable, \$300. Call Buck, KA0RGQ, 941-0867. (2)

Heath HA-202A 2M FM 10W in 40W out amplifier in Klystronic condx, \$25. Call Dan, WA6HYB, 433-4445. (2)

Motorola 120W 136-150.8 MHz base station in rack cabinet. All solid state except tripler, driver, and final. Has GLB frequency synthesizer for tx/rx frequency control. W/spare tubes and all documentation. With typical Motorola metering of tx & rx. An excellent base station or would make a fine repeater. Call Phil, K6ROR, 724-0098 and make an offer. Some ridiculous offers considered. It's Club property so give Pheel a call. If the Gi'nt Computer answers, don't hang up, it may make more sense than he does.

Drake R-4C HF rx w/MS-4 spkr, \$225; Drake TR-4C HF xcvr w/MS-4 spkr and

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AC-4 pwr supply, \$275. All cables and manuals included. Call Steve, WA6BSD, 746-9034.

Travel Electronics Travelphone, commercial 6-channel VHF, high power 5W, low power 1W, presently on Gemcon freqs w/acc. Call Doug 676-7321. (2)

Heathkit SB-201 HF linear amp w/572-Bs and 10M band, \$200. Call Tom, W6EBV, 753-4104. (2)

Swan SS-200A solid state HF xcvr w/Turner 444 mike, \$150; w/matching PS-20 pwr supply, \$210. Johnson 1 KW Matchbox w/swr meter, \$150. Call Ralph, K6HAV, 727-5866. (2)

AEA CP-1, Hamtext, Dr. DX, all for C-64. Call Paul, KZ6X, 436-2537 (WP), 753-0026 (HP). (1)

Hammarlund HQ-170Q, HX-50A HF rx, tx. Call Hal, W6JPB, 745-8872. (1)

BC-610 WW II HF AM/CW tx/boat anchor. Call Don, WD6FWE, 757-3241 (1)

Drake NB-7 noise blanker for TR-7, new, \$65 ppd; also Aux 7 board for same w/general coverage mod., \$75 ppd. Call/write Tony Musero, K3UKW, 1609 S. Iseminger St., Philadelphia, PA 19148; (215) 271-8898. (1)

CW/RTTY package: TRS-80 Color Computer, AEA CP-1 interface and Kantronics Hamsoft for TRS-80C. Call Lloyd, W6TFB, 757-9374. (12)

Tempo VHF-1 10W 2M FM xcvr w/manual, matching pwr supply-spkr, all for \$200. Mirage 2W in, 30W out or 10W in, 80W out 2M amplifier, \$175. Call Al, N6GNB, or Mickey, N6GWJ, 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 HTw/rubber duck & 5/8 wave AEA ants., \$200; Heathkit 5010 memory keyer, \$50; Apple Silent Printer, make offer. Call Dick, K6PZE, 286-7103. (12)

Rohn HDBX48 tower (5 8' sections) w/ant. rotator and TH6DXX tri-band beam, all for \$250. Call Ralph, WD6ENP, 579-4879 (WP). (12)

Swantenna Model 45 mobile 75M-10M antenna w/slider for band and frequency adjustment. Call Warren, W6EYP, 744-5097. (12)

Yaesu 480R all mode 10W 2M xcvr w/TTP mike, PL encoder, plus standard mike, \$200; Yaesu FT-708 450 MHz FM HT w/wall charger and cig. ltr plug in, has TTP and PL encoder built in. After 1700, call Nate, N6DCK, 448-8438. (12)

Drake TR4-C HF xcvr w/AC supply and outboard VFO, never raced, \$300. Heath SB-301 HF rx w/spkr, \$75. De-TVied Johnson Viking I w/spare 4D32 and VFO. Call Hal, W6DOL, 271-5939. (12)

Drake NB-5 noise blanker for TR-5 xcvr only, \$20. Call Dennis, N6KI, 271-6079. (11)

Drake WH-7 HF wattmeter, \$40. Call Earl, K6MXM, 743-0860 (1)

Collins KWM-2 HF xcvr w/Collins 312B-4 station control, Hallicrafters PS-500C pwr supply, 414A mobile mike, Shure 444D mike. Vic-20 computer w/Ramax (28,159 free bytes), Hamtext, 40-80 column board, Touch Typing Tutor, and 6 tapes including Personal Finance, Loan/mortgage Calculator, plus publications. \$500 takes Collins and Vic and accessories. Call Bob, WA6KZN, 729-4504. (11)

Palomar Engineers automatic keyer, \$75; Swan swr/field strength meter, \$12.50; Hustler mobile ant. resonators for 40-10M. Call Allen, N7AMR, 434-5656. (1)

Drake TX-4B HF tx, RX-4B HF rx, pwr supply, all for \$275. Call Bill, W6VDA, 466-4234. (2)

Heathkit SB-100 & HW-101 HF xcvs w/AC supplies, mikes, documentation. Hallicrafters S-38, S-38E, and S-120 rxs. Heath SB-610 Monitorscope. A scanner, marine xcvs, Johnson 2 and 6 AM transmitter. These are Club items. Make an offer. Also 8' copper clad, commercial grade ground rods

w/clamps, \$10 each. Call Stan, W9FQN, 749-0276.

Fred, W6OZF, 724-0868, still has gear for sale from the estate of W6AQP.

WANTED

(Start houted men!)

Dentron MT-3000A antenna tuner. Call Bill, N6COU, 758-7163.

Drake MN 2700 or MN 2000 ant. tuner. Call Tony Musero, K3UKW, (215) 271-8898.

A maximum/minimum thermometer for the repeater building. Call W9FQN.

ICOM IC-22A in working condx and/or other xtal contl solid state rig.

Crashed/injured KLM KT-34A or XA for parts. Call Dennis, N6KI, 271-6079.

TRANSMITTER HUNT

The Escondido Amateur Radio Society plans a hunt on the second Saturday of every month. Meet at the parking lot behind Aunt Emma's (near Sears on East Vally Parkway in Escondido at 0930. One dollar entry fee. Sack lunch recommended. Talk in on 146.88 (-).

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

GNU CLUB MEMBERS: Ted Pakaski, KA6FWM; Capt. Francis Jordan, W6OMM, Rancho Santa Fe; Dave Karr, WA6KWM, El Cajon; Bob Smith, KB6KBI, Chula Vista; Gary Grant, N7AS, Lake San Marcos; Dr. Jim Brown, WB6RWF, Oceanside; Joey Contogenis, NU6L, San Diego; Ralph Neiger, KB6KUM, Escondido; Becky & Roy Matros, N6KAL & N6KEU, Ramona.

RENUDE MEMBERS: Very early (effective 8/31) renewal for Carl Wallace, WD6B, of La Jolla and the Malaga.

NEW SUBSCRIBER: Tony Musero, K3UKW, Philadelphia, PA.

CHANGE OF CALL SIGN: Carl Callender, WN6V from N6KGI; Benton Caldwell, N6MVZ from KB6JAN.

FCC LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan at East Vist Way and Anza in Vista on the second Saturday of the month from 10:00 a.m. to 4:00 p.m.

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

Applicants for examination must send a S.A.S.E., 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 to the examination. NO "walk-in" examinees will be accepted.

ELECTRICALLY ORIENTED FLEA MARKETS ARE: the ham-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 on 145.320 MHz simplex.

DONATE IT TO THE CLUB if you can't sell it or aren't up to hauling it to the flea markets. The Club will sell it and put the money in the Equipment Fund to buy that new repeater, antenna, feedline or generator. Contact any club officer and he will gladly rid you of your surplus TS-940S or KWM-380.

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- SUPPORT OUR ADVERTISERS -

SURPLUS GOODIES of the electronic persuasion at HIGHWAY COMPANY in the plain, unmarked white building at 305 W. Wisconsin Ave., Oceanside. See their ad in this issue. Aluminum, brass, copper, stainless steel, etc. at Escondido Sales at 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, nicads at Industrial Liquidators, 4887 Convoy St., San Diego, and at Gateway Electronics, 4633 Convoy St.

VOLUNTEER EXAMINERS PROGRAM

At the January 11th session of the north county VE-conducted FCC exams, Bill Buckner, KA0RGQ, upgraded to General Class. The North County VE Team offers its sincere congratulations to Buck. Volunteer examiners were: N6IE and W6DEY conducting the CW exams; KG6VX manning the front desk; W6SAX, W6YYV, and W6TFB serving as examiners; and KB5MU and K6HAV assisting me. Thanks to all, and to Vina de Montegre, who is so faithful in picking up the key and opening the hall.

de Pat, N6INN

DOWN THE TOOBE

Be sure to let Glendale Fed know that we appreciate the use of their hall for our meetings and the VE Program.

Welcome back to Francis, W6OMM, who has returned to the area and Club.

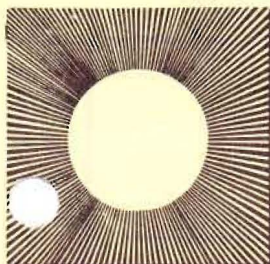
Last month we received, and promptly misplaced, a nice note and pictures from Leona, WA6OHB, telling us that their boat Malaga had missed being damaged in the Mexico City quake. Both she and OM Carl are accredited examiners under SANDARC-VEC, and have been giving exams in Mexico to hams upgrading or to prospective hams. Leona sent along PARC dues for Carl. A little early, Leona, but better than too late. For everyone's info, all memberships expire on July 31, so we all need to regnu prior to that.

Bob, WA6QQQ, reports the FCC has approved unattended operation of digital repeaters above 50 MHz, but reminds that if third party traffic is handled, the repeater must be attended by a control op.

Congratulations to Buck, KA0RGQ, and to Betty, KB6DGR, both of whom have up-graded to General Class.

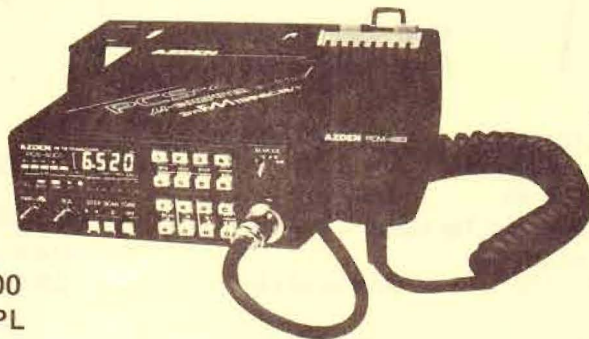
You'll notice, this month, that we're finishing off the Scope with a digital communications column, Bytes 'n Pieces, by Paul Williamson, KB5MU. Paul put our packet digipeater on the mountain and is professionally employed in a computer-related line of work. His column was, appropriately, sent to the Scope via packet radio - letter perfect, in a matter of seconds. Thanks Paul, and we're looking forward to more of the same (maybe you'll answer all of my questions and I won't HAVE to read the book when all else fails!).

To the newly initiated, packet radio certainly appears to be booming. It's amazing to watch the activity on the packet channels that Paul talks about in his column. The ease and accuracy of communications makes it fascinating to operate, and the flexibility and options available to the operator (or listener) gives one many choices of operating parameters. I've started out just as Paul indicates, with a C-64 and a PK-64 TNC and I'm having a ball! It DOES help to be able to type, though as the computers talk to each other SO quickly that you're soon looking for more to say. Once the framework is in place for formal message traffic, it will certainly improve the amateur message handling capability - particularly where high volume emergency traffic needs to be moved. I highly recommend

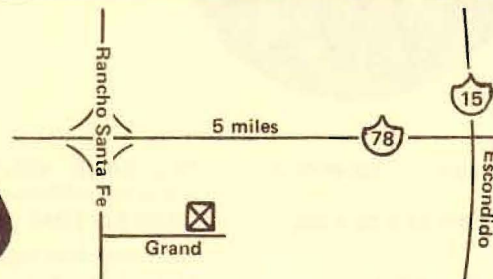


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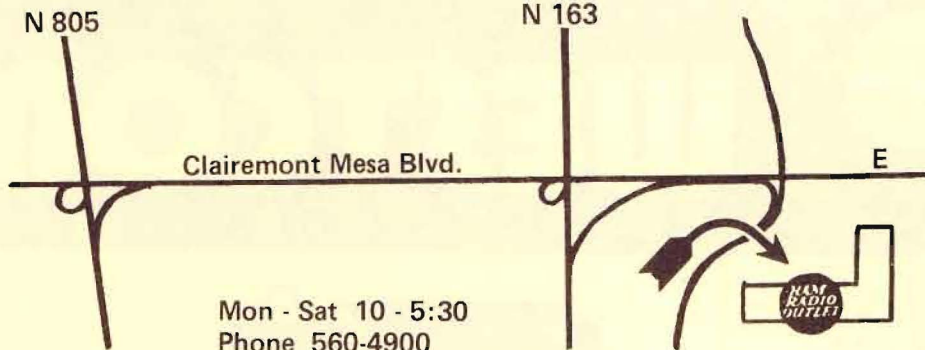
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ART N6MLH

*While browsing... don't forget to see the
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and the AEA interface. Let us demonstrate
this fascinating mode for you.*

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- KENWOOD TS-430S LIMITED TIME SPECIAL \$699.95
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- ICOM IC-37A 220 MHZ MOBILE *Price Slashed!* . \$319.95
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it as more than just a passing fancy. You should consider it as a valuable and very interesting communications mode to add to your station.

And speaking of packet radio, Phil, K6ROR, is about add that mode to his station. Phil was very active in RTTY. Several of us operated on a 450 mHz RTTY repeater which was located on the same end of Palomar that our present site is on. We were part of SANDRATS (San Diego Radio Teletype Society).

We're sure glad to hear Jack, W6BLL, back up on the air again on HF. He says his XYL made him do it! That's OK, we're glad to hear you back on. Hope you make it to the club meeting. Fifty years is a long time and you've been there since the beginning.

Vina tells us that there will be a cake to be cut for the 50th. With that and her good no-caf coffee and good friends it ought to be a fine night to celebrate the 50th anniversary of a great old club.

"That's all," she wrote.

* * * * *

* * WE HOPE YOU WILL ALL COME OUT AND HELP US CELEBRATE THE FIFTIETH! * *

* * * * *

Feb 86

BYTES 'N PIECES

By Paul Williamson, KB5MU

Packet radio is amateur radio's fastest growing operating mode. Harold, NK6K, estimates that at the end of October, there were 8,750 TNCs out there. That means we have spent nearly two million dollars on them! The number is expected to grow to perhaps 14,000 by March. The Club has installed a digipeater (digital repeater) at our site on Palomar Mountain, and many of the Club's new packeteers are regular users. It provides good coverage of the county, despite its low transmitter power (2 watts).

What do I need to get started in packet radio? The easiest way, and the most popular lately, has been to get an AEA Pakratt (PK-64) and a Commodore 64 computer. If you have another brand of computer, other TNCs are available that hook up to any computer via an RS-232 interface. Both types of setup have been demonstrated several times at club meetings. Suppliers include Heathkit, Kantronics, GLB, AEA, and Pac-comm. The last four offering "clones" of the TAPR TNC-2. You also need a 2M FM radio, just like the one you use to work the repeater, with its antenna and power supply.

Packet radio is primarily used on 2M, but there is also quite a bit of activity on HF, particularly 20, 40, and 80 meters. A band of 2M frequencies have been set aside by TASMA for packet radio: 145.01, 03, 05, 07, and 09. 145.01 and .05 are heavily used for long-haul linking (to Sacramento and Las Vegas on .01, to Fresno on .05). 144.76 and 145.36 are used primarily for local work. High-speed linking on 220.95 is just starting to become a reality, and will relieve the current overloading of the long-haul channels on 2M.

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MAR 86

NORTHERN SAN DIEGO COUNTY



THE PALOMAR AMATEUR RADIO CLUB, INC.

POST OFFICE BOX 1603
VISTA, CALIFORNIA 92083-0530

W6NWX

Scope

VOL. XXI, NO., 3

1936 - 1986

MARCH, 1986

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista 726-0353
SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

---FROM THE PRESIDENT---

The ads in the SCOPE are almost paying for its printing and we certainly do appreciate our advertisers for their support. We hope you support them too! If you have a business, we will allow some non-ham type ads (insurance, construction, legal, repair, etc.) that meet our advertising standards. These ads are probably tax deductible for your business and are only \$5.00 per issue for a business card ad, and \$25 per half page. It's a good way to help out the Club and amateur radio.

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, and \$9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530.

ADS & MATERIAL FOR SCOPE to P.O.Box 73, Vista, CA 92083-0030. Deadline is normally Monday of the week two weeks before the club meeting.

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

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. 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).

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March 86

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

MARCH CLUB MEETING

THE PROGRAM for the evening will be presented by Captain Chuck Wood, WD6APP, of the San Diego County Sheriff's Department. He will talk to us about the 911 emergency phone system and the Sheriff's communication system. A great chance to update your superlative knowledge of reporting emergencies and how and when to use 911. Sure, we all know, but let's just check anyway.

SHOW AND TELL will feature an up-date on Mexican amateur radio licenses by George, K6RTD, and others. There will also be a packet radio station set up for anyone who wants some hands-on experience before the meeting.

COFFEE AND THE USUAL NO-CAL GOODIES by Vina and friends. (Vina still needs friends to bring goodies for March; and to sign up for succeeding months - let her know.)

SIGN THE ATTENDANCE LOG at all club events. Each attendance is worth one ticket for the drawing held at the Club's annual picnic. No signature, no tickee. No tickee, no washee! Several folks appear to have missed signing in at the February meeting. DOIT!

FEBRUARY CLUB MEETING

At the February meeting, W9FQN was the latest recipient (from WF6L) of an award presented (so far, at least) only to KB6DNR for heroic achievement in the field of endurance transmitting on 146.130 mHz (we never did quite figure out Stan's transgression). W6OLQ announced that 50th Anniversary PARC badges would be available from him for \$2.50, but only during this anniversary year. W9FQN announced that club equipment which had not been sold would be taken to the March Swap Meet at Jack Murphy Stadium parking lot where a club table or tables will be set up on the 1st of March. Club members may make arrangements to have their equipment put out on the club table(s).

During Show and Tell W6HPH demonstrated his universal oscillator for testing crystals; and N6LYX showed us a very useful pocket-sized butane-powered soldering torch and had his packet radio station up and operating for any who wanted to try it.

WA6KZN presented those of the Club's charter members who were present: Harry Field, W6LKC; Walt Huckabay, W6JRQ; Harold Ulmer W6EPM; Jack Cornell, W6MMO; and Roy Williamson, W6NXX. Bob also read a letter from Charter Member Johnny Trent, KL7DG, of Anchorage, saluting the Club on its 50th Anniversary and sending along a cash donation to help in its celebration.

The program for the evening was presented by pretty (she's my step-daughter) Nancy Jean Kendall of Southern California Edison Company (no, NOT SDG&E!) who gave us an illustrated talk on earthquake preparedness, emphasizing the absolute necessity for prior planning and preparation. That Richter 8-9 IS out there!

The meeting was ended with the cutting of a beautiful 50th Anniversary cake, which Vina and friends (she says thanks to those who helped with it) took care of ordering and delivering. Stan had great batches of the Club's

MAR 86

equipment set out for sale, and N4KRA doing the honors with it. The cake was great, the company fine (over 100 of us), and the celebration appropriate. Felix, N6IE, got some good pics of it, as I'm sure others did. Hope you were there too! We had a fine time!

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the p.m. Club members are welcome to attend and observe.

At the February meeting, which was held at the home of W9FQN, the Committee decided to continue the present size of the Scope even though it's more expensive. It was decided to support the efforts of WF6L to get an amateur radio club and training program going in Fallbrook Junior High School. The need for some PARC member to step in and coordinate a PARC-sponsored training program was expressed. It was decided to hold in abeyance the sale of the second Motorola MSY 450 repeater. The Committee approved the bid of \$125 by Buck, KA0RGQ, for the Motorola 2M base station from the estate of W6SCI. The Committee stated the policy that no estate-owned equipment would be sold until the agreed upon price was received in full. WF6L was directed to seek information from WA6COE on the Club's request for Special Service Club status. The inability of TASMA to take any positive action on interference problems caused by uncoordinated repeaters was discussed. The Committee directed W9FQN to ignore requests by non-club members for lists of equipment the Club holds for sale. The Committee was informed that Glendale Federal Savings has notified the Club that the last time its building will be available for our meetings will be the April meeting. The location of a new meeting place with space and adequate parking for up to 125 people was made a top priority item. The Committee approved the placing of the QSL cards of members who have become silent keys on a board in the repeater building. W9FQN listed his appointments of committee chairmen. The Committee approved the Club's VE team request for reimbursement of W6DEY for the console he built to permit individual signal level control for the CW exams. A fine time was had by all.

NEW MEETING PLACE AND TEST SITE FOR VE PROGRAM NEEDED - POST HASTE

Glendale Federal Savings, our gracious host for these many years has informed the Club that our April 2nd meeting will be our last in the Glendale Fed community room. They are planning on converting that space to some institutional use, and so it will no longer be available to the PARC or to the VE program.

We need to immediately lay our hands on a suitable hall to hold up to 125 persons, seated, with facilities for coffee, and parking for 50-75 cars. We are currently looking at the Red Cross building in Oceanside; and at Tri-City Medical Center. We would appreciate our members immediately casting about for suitable space. It may be that we have to change our meeting night to another in order to get the hall that we need, but the important thing now is to find a new meeting place!

We will also need space to conduct our FCC exams on the 2nd Saturday of the month. For this we do not need parking for more than 15-20 cars, but we do need a waiting room and testing room similar to our present setup at Glendale Fed.

If you have any good leads please call one of the club's officers.

March 86

REPEATER

On Sunday, January 26, W9FQN, K6HAV, and WB6IQS went to the mountain top and replaced the Standard 450 mHz repeater with the recently purchased and refurbished Motorola MSY repeater. Everything worked as John had planned, except that new cables for the CW IDer had to be made up and installed. John did this and went back the following Sunday and completed the job. Initial looks by mobiles and base stations indicate that it was really worth the effort to make the change. A VERY marked improvement in receiver sensitivity and signal strength, so that its coverage closely parallels that of the 2M machine. In fact, several of us feel that it is the equal of some of our earlier 2M repeaters in coverage. WB6IQS merits a vote of thanks for all of his good work in getting the missing parts manufactured and into the repeater; and for getting it all padded and tweaked up on the ham band.

The Club does need additional contributions to help pay for the machine and the necessary parts and crystals required. If you can help, mark your check "450 repeater" and get it to Ron, WI6B, at the P.O. box address in the masthead. We can't really expect the non-450 mHz users to carry the cost of this fine new machine for us, so let's get with it!

EXPIRING FCC LICENSES

Licenses expiring in March: W1LE, W6OMM. In April: KD6WX, WB6JVS. In May: WB6UON, N6EQB, N6GZI. In June: NONE.

If you want to be reminded about your license expiration date, be sure we have it in the Gi'nt Computer. 610 forms are available from the FCC or from the club secretary. Be sure the 610 you use is dated June 1984 or later. No earlier issue is acceptable.

FROM THE ARRL LETTER

Latest call signs issued as of 1/15/86: WO6G, KI6AV, N6MXV, KB6LHF.

FORESAIL

(All the world luffs a luffer)

For free. Come onna myhouse and I giva to you five Gordon West 20wpm CW tapes for the Extra Class exam. Call Dan, WA6HYB, 433-4445.

Techtronix o'scope T-922 DC-15 mHz, dual trace, \$350. Call Lou, N6CKQ, 755-9179. (3)

Radio Shack portable computer PC-2 hand held BASIC computer w/16K memory module, portable printer, and several books, \$85. Signal generator TS-497/URR 2-400 mHz, CW and AM w/good calibrated attenuator and output level indicator and manual, \$25. Call John, WB6IQS, 724-8380. (3)

Tri-Ex W-51 51' crankup tower, delivery negotiable, \$300. Call Buck, KA0RGQ, 941-0867. (2)

Heath HA-202A 2M FM 10W in 40W out amplifier in Klystronic condx, \$25. Call Dan, WA6HYB, 433-4445. (2)

Drake R-4C HF rx w/MS-4 spkr, \$225; Drake TR-4C HF xcvr w/MS-4 spkr and AC-4 pwr supply, \$275. All cables and manuals included. Call Steve, WA6BSD, 746-9034. (2)

Travel Electronics Travelphone, commercial 6-channel VHF, high power 5W, low power 1W, presently on Gemcon freqs w/acc. Call Doug 676-7321. (2)

Heathkit SB-201 HF linear amp w/572-Bs and 10M band, \$200. Call Tom, W6EBV, 753-4104. (2)

Swan SS-200A solid state HF xcvr w/Turner 444 mike, \$150; w/matching PS-20 pwr supply, \$210. Johnson 1 KW Matchbox w/swr meter, \$150. Call Ralph, K6HAV, 727-5866. (2)

AEA CP-1, Hamtext, Dr. DX, all for C-64. Call Paul, KZ6X, 436-2537 (WP), 753-0026 (HP). (1)

Hammarlund HQ-170Q, HX-50A HF rx, tx. Call Hal, W6JPB, 745-8872. (1)

BC-610 WW II HF AM/CW tx/boat anchor. Call Don, WD6FWE, 757-3241 (1)

Drake NB-7 noise blanker for TR-7, new, \$65 ppd; also Aux 7 board for same w/general coverage mod., \$75 ppd. Call/write Tony Musero, K3UKW, 1609 S. Iseminger St., Philadelphia, PA 19148; (215) 271-8898. (1)

CW/RTTY package: TRS-80 Color Computer, AEA CP-1 interface and Kantronics Hamsoft for TRS-80C. Call Lloyd, W6TFB, 757-9374. (12)

Tempo VHF-1 10W 2M FM xcvr w/manual, matching pwr supply-spkr, all for \$200. Mirage 2W in-30W out or 10W in-80W out 2M amplifier, \$175. Call Al, N6GNB, or Mickey, N6GWJ, 741-1840. (12)

Drake TR-4, \$200; Midland 13-509 220 MHz FM xcvr w/509 Synthesizer & pwr supply, \$150; Sears 40 channel Roadtalker CB, 10M AM/SSB w/amplifier, \$150; Yaesu FT-208R 2M FM HTw/rubber duck & 5/8 wave AEA ants., \$200; Heathkit 5010 memory keyer, \$50; Apple Silent Printer, make offer. Call Dick, K6PZE, 286-7103. (12)

Rohn HDBX48 tower (5 8' sections) w/ant. rotator and TH6DXX tri-band beam, all for \$250. Call Ralph, WD6ENP, 579-4879 (WP). (12)

Palomar Engineers automatic keyer, \$75; Swan swr/field strength meter, \$12.50; Hustler mobile ant. resonators for 40-10M. Call Allen, N7AMR, 434-5656. (1)

Drake TX-4B HF tx, RX-4B HF rx, pwr supply, all for \$275. Call Bill, W6VDA, 466-4234. (2)

Heathkit SB-100 & HW-101 HF xcvs w/AC supplies, mikes, documentation. Hallicrafters S-38E, and S-120 rxs. Heath SB-610 Monitorscope. A scanner, marine xcvs, Johnson 2 and 6 AM transmitter. These are Club items. Make an offer. Also 8' copper clad, commercial grade ground rods w/clamps, \$10 each. Call Stan, W9FQN, 749-0276.

WANTED

(Start houted men!)

Use of a tri-band beam for the CW station for Field Day. Call Stan, W9FQN, 749-0276.

For new radio amateurs just finishing Novice/Technician class: a) 2M radios - xtal or synthesized about \$100 or less. b) Novice rigs - cheap. c) HF VFO - cheap, cheap. Call Ron, W6TXK, HP 566-1959, WP 458-3706.

Battery chargers (2) for repeater site. Automatic transfer type for trickle or full charge. Need about 10 amps at 12V. A 12V RV-type 100 AH or greater battery for the 450 repeater is needed. Also needed is a workbench - about 2.5'X5' with sturdy legs of 4X4 type. Call John, WB6IQS, at 724-8380. The chargers and the bench are for the packet digipeater and the new 450 MHz machines.

Drake MN 2700 or MN 2000 ant. tuner. Call Tony Musero, K3UKW, (215) 271-8898. (1)

A maximum/minimum thermometer for the repeater building. Call W9FQN.

ICom IC-22A in working condx and/or other xtal contl solid state rig. Crashed/injured KLM KT-34A or XA for parts. Call Dennis, N6KI, 271-6079.

Some staunch club member to organize and oversee an amateur radio licensing course in the north county area. Call W9FQN.

BASIC ELECTRONICS CLASS

Burr, WA6VYD, is teaching a basic electronics class at La Palma High School on Chestnut between Harding and Madison in Carlsbad this semester. It is an open entry, open exit class (no registration etc.), using the

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Heathkit course. It does not include antennas or RF, but Burr will help anyone who wants to get into those subjects. Call Burr at 434-6349 (classroom) or 757-6070 (HP) for more details.

TRANSMITTER HUNT

The Escondido Amateur Radio Society plans a hunt on the second Saturday of every month. Meet at the parking lot behind Aunt Emma's (near Sears on East Valley Parkway) in Escondido at 0930. One dollar entry fee. Sack lunch recommended. Talk in on 146.88 (-).

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

UP-GRADES: Steve McKinney, KB6ISU, to General Class from Novice. Congratulations, Steve!

GNU CLUB MEMBERS: Don Clark, KI6AC, San Diego; Ed O'Neil, KA3DKJ, Rancho Bernardo & Pittsburg, PA (Say what?); Jack Honts, WD0DLW, Fallbrook; Mel Smith, WA6RLT, Lakeside; and Joe Pevney, WA6MOS, Carlsbad. Welcome aboard, all of you and it appears that one of you is our 300th member for 1986. Congratulations!

CHANGE OF CALL SIGN: Steve and Gayle Rogers, N6NAF and N6NAG!! from KB6IGO and KB6IGP (Who says the bureaucrats don't have a sense of humor!).

REPORTING OF TRAFFIC PROBLEMS

Bob, WA6QQQ, and others remind us that the June '86 QST had, on page 77 in the FM/RPT column, an informative item on ham radio reporting of traffic problems from an account by WA6QZY of information gleaned from law enforcement officials and as a result of experience on W6FNO/R (146.820).

Some salient points which it makes are: Remember, when reporting a problem, provide the following data: 1) a description of the problem. 2) location of the problem (get it BEFORE you make the call). 3) are there any injuries? 4) identify yourself: "This is an amateur radio operator. My name is..." When reporting a problem be aware that: 1) Traffic lanes are numbered from the lane closest to the center, which is lane number 1. 2) The painted island that guides traffic on or off the freeway ramp is called the "gore point". 3) A vehicle is not on a shoulder or center divider unless it is completely out of a traffic lane. See this column in QST for more details. They're pertinent to our traffic problem reporting.

FCC LICENSE EXAMINATIONS in north county are conducted by PARC examiners, under the auspices of SANDARC-VEC at Glendale Federal Savings and Loan at East Vista Way and Anza in Vista on the second Saturday of the month commencing at 10:00 a.m.

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

Applicants for examination must send a S.A.S.E., 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 to the examination. NO "walk-in" examinees will be accepted.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: the ham-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 on 145.320 MHz simplex.

DONATE IT TO THE CLUB if you can't sell it or aren't up to hauling it to the flea markets. The Club will sell it and put the money in the Equipment Fund to buy that new repeater, antenna, feedline or generator. Contact any club officer and he will gladly rid you of your surplus TS-940S or KWM-380.

- SUPPORT OUR ADVERTISERS -

SURPLUS GOODIES of the electronic persuasion at HIGHWAY COMPANY in the plain, unmarked white building at 305 W. Wisconsin Ave., Oceanside. See their ad in this issue. Aluminum, brass, copper, stainless steel, etc. at Escondido Sales at 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, nicads at Industrial Liquidators, 683 S. Rancho Santa Fe Rd., San Marcos; and 4887 Convoy St., San Diego, and at Gateway Electronics, 4633 Convoy St.

VOLUNTEER EXAMINERS PROGRAM

VE FCC testing was held on Saturday, February 8. Our most sincere and hearty congratulations to Steve, KB6ISU, who made our day by upgrading from Novice to General Class, and who made it with room to spare. Dan, WA6HYB, now holds a certificate for successfully copying code at 20 words per minute. We are privileged to have a wonderful and cooperative pool of hams who participate in the VE program. As amateur radio operators upgrade and obtain their Extra Class licenses, we encourage them to obtain SANDARC-VEC's approval; and to join our pool, the size of which is now large enough to permit us to request their presence only every third to fourth month. The paper work is unbelievable, but we have a lot of fun.

Although the program is sponsored by SANDARC, our north county VE program is almost entirely staffed by PARC members. We thought you might like to know who the fine PARC participants are: Vern, W6HW; Earl, W6YYV; Ralph, K6HAV; Ted, K6RF; Vina de Montegre; Felix, N6IE; Bob, WB6TBA; Lloyd, W6TFB; Phil, WF6L; Bud, KG6VX; Max, W6DEY; Boots, W6HAW; Marsh, W6SAX; Bob, KS6S; Jane, AD6Z; Phil, K6ROR; Duane, WB6R; Bill, K6TQ; Dennis, N6KI; Ron, WI6B; and Paul, KB5MU. Those assisting at the 2/8 session were: W6YYV, K6HAV, and N6INN examiners; KG6VX in the "front office" greeting the applicants and accepting Forms 610; and N6IE and W6DEY in charge of CW testing. Marty Cornell, K6NS, would be proud of the program he began.

WATCHING TASMA COORDINATE TWO METER FREQUENCIES

It was interesting to attend the January TASMA meeting. TASMA is the organization (?) set up to coordinate repeater frequencies on 2M. The reason for our attendance was to observe the fate of the PARC's request for relief from the strong intrusion into San Diego County of the signal of K0JPK/R on 146.730 MHz. The PARC petition has not asked to have this repeater, an uncoordinated one, put off the air, but only to have a reduction, to a squelchable level, of its signal into W6NWG/R's coverage area. The Palomar Amateur Radio Club's complaint against K0JPK/R (formerly WA6-NUD/R) has been lodged with TASMA for several years, but to no avail.

TASMA's method of handling our complaint against the intrusion of the signal of K0JPK/R appeared to be by attacking the PARC (the complainant) for having moved its repeater from its sanctioned location. (We moved less than 200' in October, 1977, when we built our own site next door to the

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sanctioned site. TASMA or its predecessor, SCRA, was informed of the move.) The PARC was also very pointedly questioned about other aspects of W6NWG/R's operation in what appeared to be an attempt to show that W6NWG/I had broken the terms of its coordination. It appeared to many of us that the PARC was questioned about its operation of W6NWG/R as if our repeater was the one with the offending signal. K0JPK was NEVER QUESTIONED about his operation! But Palomar was put on the griddle! Really makes one wonder about the objectivity of this august body. Perhaps this is the way in which TASMA resolves its problems - attack the complainant and the problem will go away! Most of the questioning was done by two TASMA committee members, the secretary and the chairman.

TASMA appears to be ineffectual in its handling of our complaint. Deadline dates set by TASMA for K0JPK/R to conduct tests with the PARC have come and gone unheeded by K0JPK and by TASMA. We are now watching a new deadline, that of the 21st of March to see whether the CW Ider on K0JPK/R is corrected so that it does not ID every five minutes regardless of the presence of a signal.

TASMA's coordination of repeaters (to preclude overlapping coverage by repeaters on the same frequency) is, as you can see, wonderous to behold. It is also very frustrating to be unable to get the attention, let alone the cooperation, of the people who might be able to assist in solving this long-standing (since the late '70s) problem. In the Club's effort to secure relief from the unsquelchable intruding signals of an uncoordinated repeater we have, IN WRITING, contacted TASMA, our ARRL Division Director, and ARRL headquarters. NOT ONE of these entities has taken the trouble to respond in writing to our requests for resolution of the problem.

PLAUDITS FOR THE CLUB'S DEDICATION TO PUBLIC SERVICE

The Club received a nice tribute to its dedication to public service in the form of a letter from ARRL Section Traffic Manager Gordon Wenz, N6GW, who also sent along an application to become a club member. Gordon thanked the Club for its sponsorship of the nightly North County Traffic Net; and indicated his pleasure over the opportunity for training which the net provides. Thanks, Gordon, and we're happy to count you as a fellow club member.

CLUB TO HAVE SELLERS TABLE AT THE MARCH 1ST SAN DIEGO SWAP MEET

The PARC will have sellers' tables at the March 1st swap meet in the parking lot at Jack Murphy Stadium. We'd like to make a club day of with as big a turnout as possible. Folks who would like to have their gear for sale on the club table must contact W9FQN before the 1st and provide him with the gear to be sold prior to the 0700 opening of the gate. We plan to make this a semi-social outing. Everyone should wear their PARC badge, and we'll have the club banner flying. The main aim is to sell club and estate property, but let's all come out and have a good time. In case of rain, monitor .73 for updates.

DOWN THE TOOBE

Phil, K6ROR, now has a C-64/PK-64 combo going alongside the Gi'nt Computer which stores the Club roster. Now if we can just get an antenna up for the packet radio setup.....

Speaking of packet, Club members who we know are up on packet radio include: WI6B, K6BPT, N6ELP, W6FAY, KD6FY, N6GNB, K6HAV, K7HOE, N6IE, W6JSP, W6KCB, W9KEX, N6LYX, N6MMP, N6MSC, KB5MU, N6NAF, KA6PPD, KA0RGQ, K6ROR, W6SE, N6TE, W6TFB, W6VDA, N6YX, 8% of our present club membership.

It's truly a very rapidly growing facet of our hobby!

Please note, in the Surplus Goodies item, above, that Industrial Liquidators is now also located in San Marcos in the Von's shopping center, across from the high school.

Congratulations to Felix, N6IE, for 50 years in the Amateur Radio Service. Felix received a beautiful Golden Anniversary award from the QCWA for his accomplishment. W9FQN presented the award to Felix at the February club meeting.

Jay, W6FAY, is back after a voyage to Egypt. He says he met with some Egyptian hams and left a copy of Scope with them, which he reports they found very amusing. Hmm. Wonder how he meant that?

Gerry, N6LYX, told us that brother Ron, W6TXK, has started a Novice/Technician licensing class being held at the LDS church in Mira Mesa. With some chagrin it is noted that we promptly misplaced the note Gerry had sent us via packet radio. Further details are available from Ron at 566-1959.

We hear Bob, WA7GRW, up on the new 450 machine with a recently purchased Yaesu FT-2700-RH dual bander - he's the one who sold the Club the MSY repeaters, one of which is now in use at W6NWG/R on 450.

Burr, WA6VYD, says that the new Yaesu FT-709 450 HT does everything but the dishes, and puts out 4+ watts. It has encoder/decoder like many of the other Yaesu FM rigs.

Thanks to Steve, KB6ISU, for his handsome donation to the Club. It surely comes at a good time, Steve, as the Club has just received a rude shock in its liability insurance premium bill - up 300% over last year!

The Club received a very nice donation of equipment from Francis, W6OMM, who has recently rejoined the PARC after an absence from the area. Thanks, Francis. Donations of equipment, parts, or money help to build up the club offers for replacing that repeater, feedline or antenna; and in meeting the Club's ordinary operating expenses.

It was truly great to see charter PARC members Walt Huckabay, W6JRQ; Harry Field, W6LKC; Harold Ulmer, W6EPM; Jack Cornell, W6MMO; and Roy Williamson, W6NXR; at our 50th Anniversary Celebration. We were sorry that present club and charter members Jack Williams, W6BLL; Clint Call, W6OFT; and John Martin, W6SE; were not able to be present. We also missed seeing the other surviving original members. Bob, WA6KZN, has tracked down 18 of the original 27, and he has ascertained that six others are deceased. The status/whereabouts of three others is unknown. It is interesting to note that, of the 18 whose QTHs we have, only four reside outside the county.

Our 50th Anniversary club meeting probably set an attendance record. WF6L said we had 99 folks sign in, but W9FQN says that he counted 108 - and he's not sure he got everyone in the hall and outside! A wonderful turnout for our 50th!

Now, we have an eviction notice served on us. We HAVE TO FIND A NEW MEETING PLACE BEFORE THE MAY MEETING! Please, if you have any ideas about a suitable place, contact one of the club officers, pronto, rapidamente, hayaku, A.S.A.P., now!

Hope you had a happy Fiftieth!

"That's all," she wrote.

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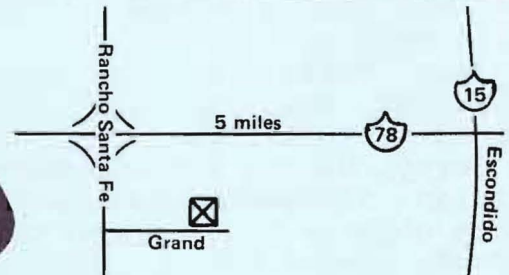
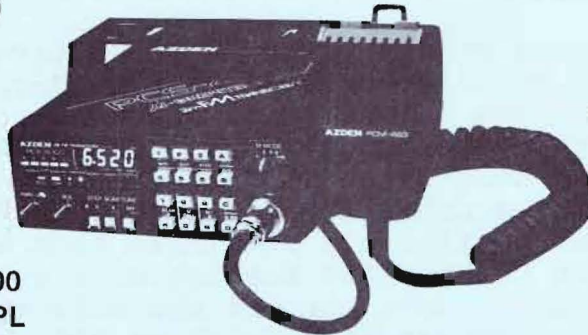
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ART N6MLH

*While browsing . . . don't forget to see the
CW/RTTY set-up using the Commodore 64
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this fascinating mode for you.*



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BYTES 'N PIECES

By Paul Williamson, KB5MU

The FCC recently issued a Report and Order authorizing automatic control of digital communications above 50 MHz, in response to a petition by the ARRL. There's a catch: It is not legal to transmit third party traffic through an unattended station. This means that the packet radio goal of automating the National Traffic System is impossible under the current rules, and it may even prohibit any automated networking or "mailbox" operation. Third party traffic is "...on behalf of anyone other than the control operator", which covers a lot of territory. The ARRL has resolved to seek a better resolution to this issue.

A packet radio mailbox is a computer hooked up to a packet radio station which is programmed to accept and hold messages. It is very similar to a telephone computer bulletin board system or an RTTY MSO. A user logs on to a mailbox by simply connecting to (establishing packet radio contact with) the mailbox station. The mailbox then prints a welcome message and prompts the user for a command. The user may then choose to enter a message for some other station, or to scan and read the messages already posted. Most mailboxes also store files of bulletins and general packet radio information that the user can call up. Most mailboxes run 24 hours a day, so users with different schedules can still exchange messages. A mailbox can generate data very rapidly, so too many mailboxes can easily clog a frequency. San Diego mailboxes: KA6IQA (145.01), WA2QMI (144.76). Westnet mailboxes: W6IXU (01), WB6AIE (05), N6GIS (05), WB6YMH-2 (145.36).

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NORTHERN SAN DIEGO COUNTY



THE PALOMAR AMATEUR RADIO CLUB, INC.

POST OFFICE BOX 1603

VISTA, CALIFORNIA 92083-0530

W6NWX

Scope

VOL. XXI, NO. 4

1936 - 1986

APRIL, 1986

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
 VICE PRESIDENT: Larry de Montegre, WQ6V, Vista 726-0353
 SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
 TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

---FROM THE PRESIDENT---

The PARC has just been notified that the K0JPK/R repeater to the north of us (back of Rio Hondo College) has had its automatic QRMER (IDer) removed. The K0JPK/R IDer turned the repeater on every five minutes of the day, and many of our members have had to listen to it over the years while monitoring W6NWX/R. For the many of you who have complained about the QRM resulting from the K0JPK/R intrusion into our coverage area, I suggest that you now re-examine the problem to see if this reduces our problems with the K0JPK/R machine sufficiently to drop our complaints, which we have lodged with TASMA, against K0JPK/R.

If the problem has not been reduced to an acceptable level, then I will set up a special committee to re-examine the interference problem. If a problem still exists, we will have to decide on the next steps to be taken. Please bring your K0JPK/R interference comments to me during the month of April. THIS IS VERY IMPORTANT SINCE WE WANT TO ACT PROMPTLY IF THE PROBLEM STILL EXISTS AT AN UNACCEPTABLE LEVEL.

We are, at this writing, still looking for a meeting place for our May meeting, but we have been offered the cafeteria at Lincoln Middle School, which is very close to our present Glendale Federal meeting site. I taught at Lincoln in the '70s, and I think their facilities are quite good. We are still investigating several other good locations within a mile of our present meeting place.

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, and \$9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530.

ADS & MATERIAL FOR SCOPE to P.O.Box 73, Vista, CA 92083-0030. Deadline is normally Monday of the week two weeks before the club meeting.

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

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. Unfortunately, he does require money and also feels it only fitting that you provide

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him with your name and call sign if you want them on your very own badge (like the big guys have).

THREE REPEATERS, all W6NWG/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and output is 449.425 MHz. The third is a packet radio digipeater on 145.050 MHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Repeater control operators are: KB6AI, W9FQN, K6HAV, WA6KZN, KB5MU, K6ROR, WQ6V.

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. Apply to Joe, WB6HMY.

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

APRIL CLUB MEETING

THE PROGRAM for the evening will be "QSY to 10 GHz", presented by Bob Traynor, WA7GRW, and Kerry Bank, N6IZW, who will have some equipment set up for us to see and use. They will have lots to say on X-band operation along with some handouts and kits so you can build your own.

SHOW AND TELL will feature a portable emergency HT power pack. Bob, KA6HZF, will show his battery operated C-64 and Pakratt. And any other items club members bring in to show us.

COFFEE AND THE USUAL NO-CAL GOODIES by Vina and the Rohrsers. (Vina still needs friends to sign up for bringing goodies for the coming months - let her know.)

SIGN THE ATTENDANCE LOG at all club events. Each attendance is worth one ticket for the drawing held at the Club's annual picnic. No signature, no tickee. No tickee, no washee!

MARCH CLUB MEETING

At the March club meeting we heard from Bill Kahn, WB6ZZN, of the San Diego County Sheriff's Department, who gave us an excellent presentation on the Sheriff's communication system and on the use of 911, the general purpose emergency number. George, K6RTD/XE2GAA, told us about the requirements for obtaining an amateur radio license to operate in Mexico. A poll was taken to determine by what routes our members come to club meetings. This was our next to final meeting at Glendale Fed. Gerry, N6LYX, and Buck, KA0RGQ, were given DIPPLE awards by Secretary WF6L. Gerry for stepping through his ceiling while putting up an antenna, and Buck for stepping in a paint can. Coffee and no-cal tasties were excellent, as usual, thanks to Vina and friends.

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the p.m. Club members are welcome to attend and observe.

At the March meeting, which was held at the home of W9FQN, the Committee

decided to sell the surplus Motorola MSY and the Standard 450 mHz repeaters. WB6IQS announced that Bill Blackmore, KB6JWM, has donated a workbench; and Frank Cassen, N6AT, a maximum-minimum thermometer for the repeater site. N6LYX's request for funds from SANDARC for antennae for Tri-City Medical Center was approved and will be forwarded to SANDARC. Mel Beener, N6ARS, donated a bag of parts at the last club meeting. The problems with K0JPK/R and TASMA were discussed as was the Club's financial situation and the horrendous jump in liability insurance premiums.

REPEATER

Let's all please NOT monopolize the 2M repeater during commuting hours - 0630-0830 and 1630-1830. Our membership of well over 300 means that even mobile stations must recognize the fact that there are others out there with whom the frequency must be shared - particularly during those hours.

Only Club-authorized/sponsored nets are to use the PARC repeaters. These are the North County Traffic Net each evening at 2000, the Sunday ARES net at 0900, and the San Diego Packet Radio Voice net at 2100 Tuesday. If you have any other ideas for nets, please submit them to the Executive Committee.

It sure is nice to have a private repeater! Our 450 mHz is virtually that, since there are so few users. The "new" Motorola MSY repeater is so good that it's hard to discern the difference in its coverage and that of the 2M machine. If you're thinking of buying a new FM radio, you just might consider a 450 radio or a dual bander like the Yaesu FT2700-RH, the ICom IC-3200A, or the Kenwood TW-4000A. Phil, K6ROR, prefers the Yaesu since it has both sub-audible encode and decode capabilities, which are front panel programmable and are stored in memory. A very compact 25W radio with duplex (listen on one band while transmitting on the other) capability. Give it some thought. The 450 machine can stand some more users and you can have your own private repeater.

FROM THE FCC

(Thanks to Public Service Specialist June Butler of the La Mesa Office)

A recent FCC release, summarizing enforcement actions, stated Jim Smith, W6VCE, was the subject of numerous complaints of two meter interference in the San Diego area; and, after a hearing, had his license revoked effective November 3, 1985. James Brantley, K6KPS, has been, over the years, the subject of complaints over his operations on the HF bands. Recent complaints of disruption of communications and broadcasting on 20 meters has netted him a forfeiture (fine) of \$2,000 for violation of Section 97.113.

Increased enforcement action is being taken against the sale and use of illegal CB linear amplifiers. Anyone with information on the manufacturing, marketing, or use of CB amplifiers is encouraged to call the FCC Field Office at 293-5478.

EXPIRING FCC LICENSES

Licenses expiring In April: KD6WX, WB6JVS. In May: WB6UON, N6EQB, N6GZI. In June: NONE. In July: KA6PPD.

If you want us to remind you of your license expiration date, be sure we have it in the Gi'nt Computer. 610 forms are available from the FCC or from the club secretary for club members. Be sure the 610 you use is dated June 1984 or later. No earlier issue is acceptable.

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FROM THE ARRL LETTER

The ARRL has petitioned the FCC to reconsider the part of its Report and Order in Docket 85-105 which stipulates that "no amateur station may be operated under automatic control while transmitting third party traffic". The League stated that "technology has overtaken some aspects of . . . the Commission's Rules, particularly in regard to automatic control" and pointed out that most digital communications use speeds of at least 1200 bits per second, which translates to about 1400 wpm. Thus, it would be impossible for a control operator using a video display terminal (VDT) or a printer to carefully monitor the communications, assuming an average reading speed of 300 wpm.

On March 14, the FCC released a waiver of the rules to permit retransmission of third-party traffic via packet radio under certain conditions in response to the ARRL petition. The waiver will remain in effect until the FCC takes final action on the ARRL petition, which is not scheduled until late next summer. A copy of the text of the waiver will be available at the club meeting.

50.0-50.5 MHz has been available to UK hams since February 1.

The FCC, in a Report and Order in Docket 85-87, has declared federal preemption of local regulation of satellite antennas.

Latest call signs issued March 1: WQ6T, KI6CX, N6NHF, KB6LVW.

FORESAIL

(All the world luffs a luffer)

Vic-20, Datasette, USI Pi-1 monitor, Hamtext, and Kantronics Interface. Cushcraft 4-elm 2M beam. Call Dave, WA6HQM, 753-2605. (4)

Drake NB-5 noise blanker for TR-5 xcvr only \$20. Call Dennis, N6KI, 271-6079. (4)

Tektronix o'scope T-922 DC-15 MHz, dual trace, \$350. Call Lou, N6CKQ, 755-9179. (3)

Radio Shack portable computer PC-2 hand held BASIC computer w/16K memory module, portable printer, and several books, \$85. Signal generator TS-497/URR 2-400 MHz, CW and AM w/good calibrated attenuator and output level indicator and manual, \$25. Call John, WB6IQS, 724-8380. (3)

51' crankup tower, delivery negotiable, \$300. Call Buck, KA0RGQ, 941-0867. (2)

Drake R-4C HF rx w/MS-4 spkr, \$225; Drake TR-4C HF xcvr w/MS-4 spkr and AC-4 pwr supply, \$275. All cables and manuals included. Call Steve, WA6BSD, 746-9034. (2)

Kenwood TS-520S HF xcvr, \$350. Call Ed Holm, K6II, 726-4337. (4)

Travel Electronics Travelphone, commercial 6-channel VHF, high power 5W, low power 1W, presently on Gemcon freqs w/acc. Call Doug 676-7321. (2)

Swan SS-200A solid state HF xcvr w/Turner 444 mike, \$150; w/matching PS-20 pwr supply, \$210. Johnson 1 KW Matchbox w/swr meter, \$150. Call Ralph, K6HAV, 727-5866. (2)

Drake TX-4B HF tx, RX-4B HF rx, pwr supply, all for \$275. Call Bill, W6VDA, 466-4234. (2)

Ten-tec Argonaut 509 CW/SSB 10-80M solid state xcvr, \$160; Kenwood TS-820 xcvr factory aligned, \$360; Yaesu FT-221R 2M all mode xcvr, \$195; Yaesu Landliner spkr/phone patch, \$40; Kenwood KB-1 deluxe tuning knob, \$7; Swan 14-X DC module, \$15. Call Duane, AA6EE, 789-3674 evenings. (4)

Tempo S-5 HT, \$150; Heathkit Apache TX-1 HF tx, \$70; Gonset 6N2 tx, \$30; scanner, \$40; Realistic DX-150 rx, \$20; Hallicrafter S-38, \$20; Heathkit SB-100 xcvr, \$125; Kenwood TS-520-S, \$350; Atlas 350XL, make offer; test

equipment (o'scopes, sig gens, tube testers, etc); Zenith color TV, \$90; and many other hard to find quality items, cheap, cheep. Talk to W9FQN.

WANTED

(Start houted men!)

1930, 31, & 32 RADIO magazines for research and reference. If you won't sell, would you loan them for 2-4 weeks? Call Floyd Paul, W6THU, (818) 242-8961, or drop a line to 1545 Raymond, Glendale, CA 91201.

For new radio amateurs just finishing Novice/Technician class: a) 2M radios - xtal or synthesized about \$100 or less. b) Novice rigs - cheap. c) HF VFO - cheap, cheap. Call Ron, W6TXK, HP 566-1959, WP 458-3706. (3)

HF antenna tuner; SWR/wattmeter; HF mobile antenna, 2M mag mount; element support and mast plate for Mosely tri-bander. Call Duane, AA6EE, 789-3674. Evenings (4)

ICom IC-22A in working condx and/or other xtal contl solid state rig. Instruction sheet on Morgain 80-40M dipole. Call Dennis, N6KI, 271-6079.

Some staunch club member to organize and oversee an amateur radio licensing course in the north county area. Call W9FQN.

HAMS SUPPORT RED CROSS IN VISTA HOTEL FIRE

Amateurs got the word that the Red Cross needed their services in support of the evacuation of an elderly Vista hotel which was gutted by fire early Sunday morning the 23rd of February. The amateurs were alerted about 0230, with PARC members W9FQN, WB6ZJZ, N6KHF, and KA0RGQ responding. They were secured at about 0800 after getting the evacuees to the Red Cross Evac Center at Vista High School.

REPAIR OF SWAN RADIOS

Clint Call, W6OFT, informs us that Cubic will do no more repairs of Swan 2M gear and Siltronix equipment. Clint is our local unauthorized repair point for Atlas, Swan, and Siltronix gear, and worked for both Swan and Atlas.

BASIC ELECTRONICS CLASS

Burr, WA6VYD, is teaching a basic electronics class at La Palma High School on Chestnut between Harding and Madison in Carlsbad this semester. It is an open entry, open exit class (no registration etc.), using the Heathkit course. It does not include antennas or RF, but Burr will help anyone who wants to get into those subjects. Call Burr at 434-6349 (classroom) or 757-6070 (HP) for more details.

TRANSMITTER HUNT

The Escondido Amateur Radio Society plans a hunt on the second Saturday of every month. Meet at the parking lot behind Aunt Emma's (near Sears on East Valley Parkway) in Escondido at 0930. One dollar entry fee. Sack lunch recommended. Talk in on 146.88 (-).

CHUCK SAUNDERS, KG6TD, SILENT KEY

We are greatly saddened to report the passing, on March 3, of Chuck Saunders, KG6TD. Chuck had not been a club member very long, but he will be greatly missed. He joined the amateur ranks less than a year ago, after going from no license to Advanced Class at the April, 1985 testing. Chuck was battling cancer after having had surgery for it. He will be missed by all of those of us who knew him.

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NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

UP-GRADES: Dan Pugh, WA6HYB; Harold Lundstedt, W6JPB; and Don Clark, KI6AC; to Extra; Bill Buckner, KA0RGQ, to Advanced; Gerry Earl, N6LYX, and Benton Caldwell, N6MVZ, to General. Ralph Neiger, N6NEH, to Technician. Congratulations.

GNU CLUB MEMBERS: Walter Dau, WA6INL, San Diego; Manuel Soares, KB6LNP, Oceanside; Keith Holzinger, WA6GRE, Irvine; Lt. Dan Hammill, KB5MY, USS Ranger; Fred Frey, KD6WZ, Carlsbad; Mel Beener, N6ARS, Oceanside; Don Smithana, W9FFG, San Diego; Ken Carlsen, N9AKB, Carlsbad; Billy Harris, KA6URU, Vista; Harold Lundstedt, W6JPB, Escondido; Mort Stong, KV6M, Potrero. Welcome. We're glad to have you with us.

RE-NUDE CLUB MEMBERS: Arnie Lewin, WA7BIA, Encinitas. Hello Arnie . . . (to the tune of Hello Dolly).

CHANGE OF CALL SIGN: Larry de Montegre, WQ6V from KB6DNR; Ralph Neiger, N6NEH, from KB6KUM.

If you'd like the Club to know about a change in callsign, or an upgrade, please take the time to let us know about it.

FCC LICENSE EXAMINATIONS in north county are conducted by PARC examiners, under the auspices of SANDARC-VEC at Glendale Federal Savings and Loan at East Vista Way and Anza in Vista on the second Saturday of the month commencing at 10:00 a.m.

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

Applicants for examination must send a S.A.S.E., 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 to the examination. NO "walk-in" examinees will be accepted.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: the ham-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 on 145.320 MHz simplex.

DONATE IT TO THE CLUB if you can't sell it or aren't up to hauling it to the flea markets. The Club will sell it and put the money in the Equipment Fund to buy that new repeater, antenna, feedline or generator. Contact any club officer and he will gladly rid you of your surplus TS-940S or KWM-380.

SURPLUS GOODIES of the electronic persuasion at HIGHWAY COMPANY in the plain, unmarked white building at 305 W. Wisconsin Ave., Oceanside. See their ad in this issue. Aluminum, brass, copper, stainless steel, etc. at Escondido Sales at 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, nicads at Industrial Liquidators, 683 S. Rancho Santa Fe Rd., San Marcos; and 4887 Convoy St., San Diego, and at Gateway Electronics, 4633 Convoy St.

VOLUNTEER EXAMINERS PROGRAM

Because of deviation from our tried, tested and proven routine of Vina de Montegre picking up the key from Glendale Federal, on the morning of the test session, the key remained locked in that institution. Four of us, aware of this dilemma about 10:30 p.m. the Friday night before, did not sleep well. Without filling these pages with our unsuccessful attempts to get that key, let me say that a very wonderful lady, and one of the finest probate and estate planning lawyers I have met, came to our rescue: Jenene H. Nickerson graciously unlocked, for us, the doors to her suite at 846 Williamston Street, only a block or so from the Glendale Fed site. W6DEY and N6IE, the CW examiners, set up shop in Jenene's library. KB6DNR remained at Glendale Fed to direct other examiners and test applicants to the improvised test site. Jenene went about her work until the final applicant had been tested, virtually insuring the session would not be canceled or postponed. There were examiners and applicants everywhere. Jenene let us take over her offices without any idea of compensation. However, if you would like more information about her qualifications, I can refer you to other club members who have used her fine services.

Congratulations are in order to Dan, WA6HYB; and Harold, W6JBP (a new club member); who are now awaiting the arrival of their Extra Class licenses; to Buck, KA0RGQ, who not only passed his Advanced test, but who also now holds a 20WPM code credit certificate; and to Benton, N6MVZ, who will soon receive his General Class ticket. These success stories would not be possible without the fine VE teams who so generously donate their Saturdays. Those participating on 3/8 were: N6IE, W6DEY, W6YYV, WB6R, K6TQ, W6HAW, K6HAV, KG6VX, and KB6DNR. Thanks to all.

DOWN THE TOOBE

Felix, N6IE, used a two cent postcard to tell us the article in last month's Scope should have said he has been licensed for 55 years, not 50.

Many thanks to Ted, K6RF, and John, WB6MEI, for their donations of tri-band beams to the Club. At least one of them (beams, not Ted or John) will grace the mast of the Field Day CW station. Thanks to you both. Thanks also to Charlie, KE6QV, for his donation to the Club of a battery charger for repeater use; to Frank, N6AT, for the max-min thermometer; and to Bill, KB6JWM, for the workbench.

The Club appreciates all that its members do for it. Thanks to Bill, W6VDA, we have a supply of the FCC's Form 610 for the use of club members.

Thanks also to W9FQN for the time and trouble he has taken to tag with prices the donated and estate equipment, haul it to the flea mart, and, with N6GZI and others, sell much of it, turning a pretty penny for the Club and the estates of K6NS and WD6ENK.

"That's all," she wrote.

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NET FORMAT QST QST QST THIS IS MY CALL IS ACTING NET CONTROL FOR THE CONDOR CONNECTION MONDAY NIGHT USERS NET

THE CONDOR CONNECTION

IS A NONPROFIT GROUP OF INDIVIDUAL REPEATER OWNERS

DEDICATED TO WIDE AREA LINKING

DISASTER PREPAREDNESS AND EMERGENCY COMMUNICATIONS

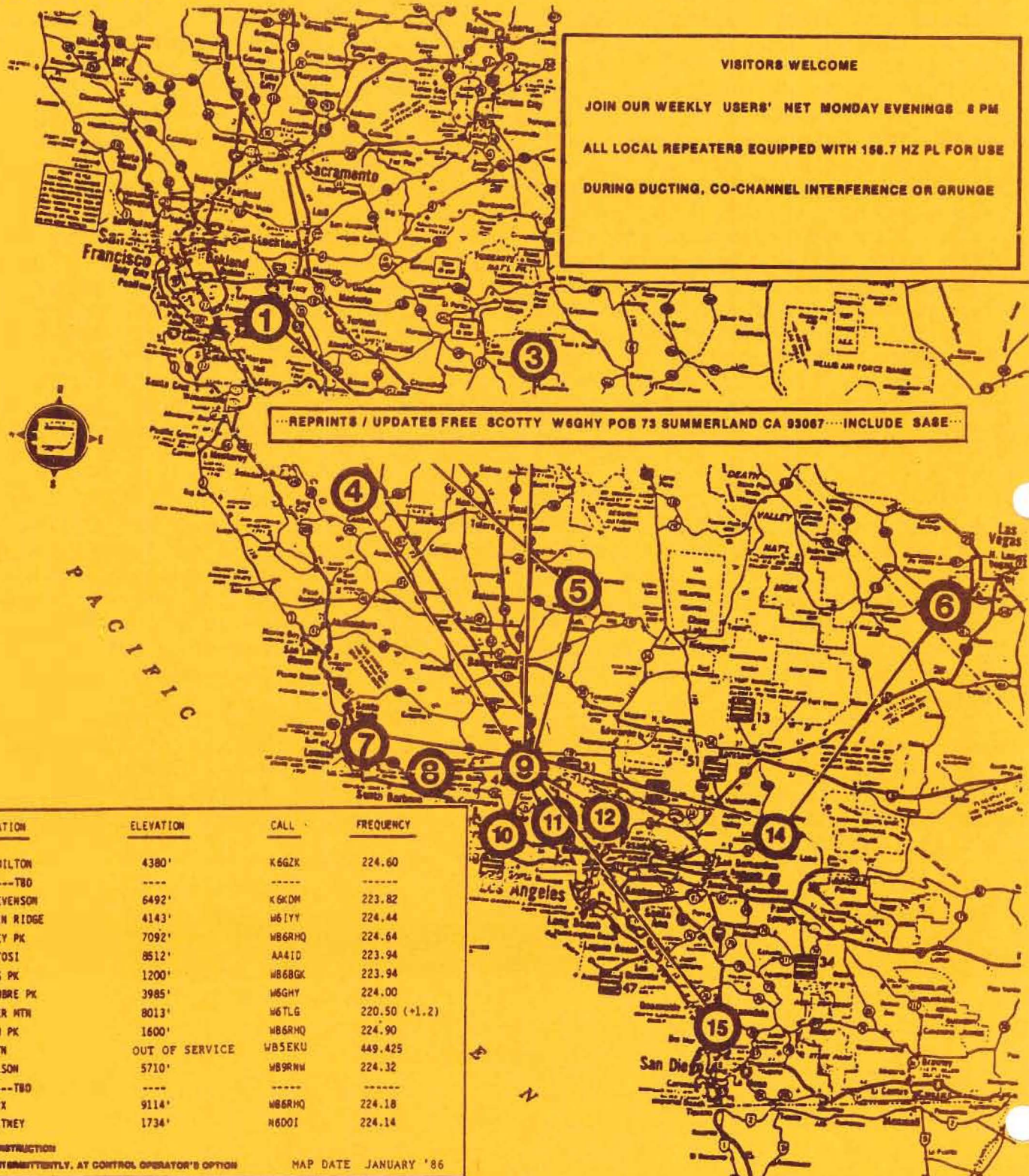
FOR ALL LICENSED RADIO AMATEURS
NO MONEY OR FEES OF ANY KIND NOR MEMBERSHIP SUPPORT IS SOLICITED ALL EXPENSES ARE BORNE BY REPEATER OWNERS.

IS THERE ANY EMERGENCY OR PRIORITY TRAFFIC AT THIS TIME?

THIS NET MEETS AT 8 PM AND VISITORS ARE WELCOME ARE THERE ANY FIRST TIME CHECK INS WHO WOULD LIKE TO SAY HELLO TO THE NET? COME NOW

THE FORMAT FOR THE NET THIS EVENING IS TO CALL FOR SUFFIXES ONLY BEGINNING WITH THE SUFFIXES

WITH THE LETTER (S)thru.... suffixes only ... thru.... now please



Chairman's Welcome

Welcome to the hams from all over the world who will be joining us in San Diego. We are making this "Early Bird" offer to get you to mark your calendar now for a great vacation in Southern California this fall!

Walt Hicks, W6UZL, General Chairman

1986 ARRL NATIONAL CONVENTION!



HIGHLIGHTS

- ARRL, MARS, FCC Forums
- Technical Sessions
- Special Youth Activity
- Public Service Sessions
- VEC License Exams
- Banquet - W00RE & K6DUE
- Ladies Luncheon - W6NAZ
- Alternative Activities
- Old Town & Tijuana Tours
- New Products & Exhibits
- Freq & Deviation Clinic
- Antenna Gain Contest
- World Class "T" Hunt
- Spark Gap Radio Demo
- Hospitality Suites
- Hourly Prizes

YOUTH FORUM

Lead by W00RE, Astronaut Tony England. Experts will expose teenagers to the latest in ham radio "high tech" with hands-on demos.

DINNER DANCE CRUISE

Friday Evening - Romantic boat tour of San Diego bay, open bar, dinner, dancing.

CONVENTION SCHEDULE

Friday September 5

- 1500 Exhibits Open
- 1830 Dinner Dance Cruise
- 2100 Exhibits Close

Saturday September 6

- 0800 Special Interest Group Breakfasts
- 0900 Exhibits Open
- 0900 Tech Sessions & Forums Start
- 1130 Ladies Luncheon
- 1300 Old Town & Tijuana Shopping Tours
- 1300 W00RE Youth Forum
- 1600 ARRL FORUM
- 1700 Exhibits Close
- 1830 Social Hour
- 1930 Banquet
- Midnight Wouff Hong

Sunday September 7

- 0800 Special Interest Group Breakfasts
- 0900 Exhibits Open
- 0900 Tech Sessions & Forums Start
- 1300 "T" Hunt Starts
- 1300 Convention Closes

FT-209RM

TR-2600A

EARLY BIRD PRIZES



YAESU

AND KENWOOD

ARE DONATING TOP-OF-THE-LINE RADIOS

ADVANCE REGISTRATION PRIZES



FT-2700



TR-2570

GRAND PRIZES



FT-980



TS-940S

ARRL 1986 NATIONAL CONVENTION

September 5, 6, & 7, 1986

REGISTRATION DATA FORM (Print or Type)

Name _____ Call _____
 Street _____
 City _____ State _____ ZIP _____
 Make Badges As Follows:
 Call _____ Name _____ City _____
 Call _____ Name _____ City _____
 Pick up Tickets and Badges at the Door.

To Reserve a Room at the Convention Site, Call T & C Hotel and ask for ARRL rates. Toll Free: California (800) 542-6082, USA (800) 854-2608
 CONVENTION INFO: (619) 292-7918

MEETING SITE TOWN & COUNTRY CONVENTION CENTER SAN DIEGO, CALIFORNIA

How Many	Cost	Amount
_____ Advance Registrations	@ 7.00	_____
_____ Registration After 8/15/86	@ 10.00	_____
_____ Banquet (Prime Rib)	@ 25.00	_____
_____ Ladies Lunch (1st 100)	@ 10.00	_____
_____ Dinner Cruise (1st 100)	@ 33.00	_____
Total Enclosed		\$ _____

18 Years & Under No Charge For Admission At Door

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April 86



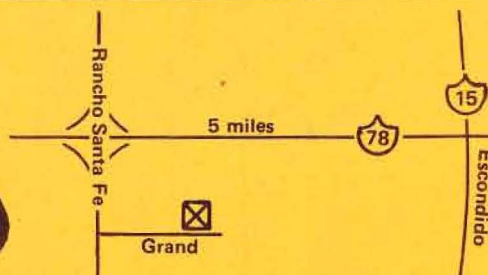
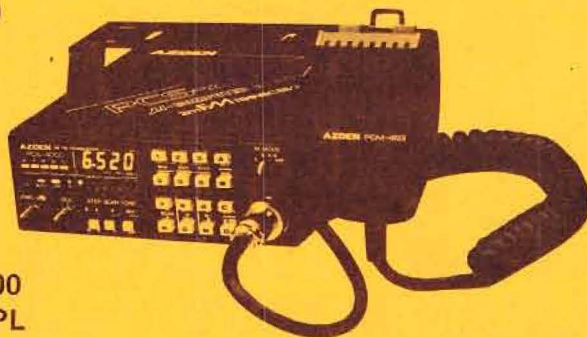
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April 86

BYTES 'N PIECES

By Paul Williamson, KB5MU

HOW TO BE A LID ON PACKET RADIO

After years of practice, we all know how to be a lid on a repeater or on the low bands. With the advent of packet radio, and its new operating techniques and practices, many of us have been forced to improvise. So to help get you started, here are a few of the many tried-and-true techniques of packet lidsmanship.

Beacon. Don't bother to wait for something worth beaconing about, just type in whatever comes to mind. Beacon every minute or two, to insure that the channel is so clogged with your message that nobody will miss it. Make your beacon as long as possible. If at all possible, beacon through a long chain of digipeaters. Don't even think of turning off the beacon when you leave the shack. And when all else fails, include a bell in your beacons. A judicious combination of these beaconing techniques could win you a place in the Lids' Hall of Fame.

Work direct on a busy channel. Make sure you always converse at length on the long-haul frequencies of 145.01 and 145.05. This insures that any of the folks who need to use the digipeaters will know you are there. To be doubly sure, transmit long text files. And by all means, do it between 7 and 10 p.m. when the channels are busiest.

Read long files from distant mailboxes. Again, the key is to do it during "prime time". This is best if the same files are available on a nearby mailbox on a local frequency. Don't bother to capture the file in memory or on disk; just download it three or four times instead.

When you have exhausted these techniques, don't forget that many of the old, familiar techniques can be used on packet radio. Tell off-color jokes. Interrupt conversations. Overmodulate. Make endless test transmissions. The possibilities are endless.

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W6NWX
Scope

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THE PALOMAR AMATEUR RADIO CLUB, INC.

POST OFFICE BOX 1603
VISTA, CALIFORNIA 92083-0530

May, 1986

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
VICE PRESIDENT: Larry de Montegre, WQ6V, Vista 726-0353
SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

< < < EXTRA! READ ALL ABOUT NEW MEETING PLACE IN ITEM ON MAY MEETING! > > >

---FROM THE PRESIDENT---

Several years ago the Club had the opportunity to buy the repeater site for \$18,000. Jim Faughn, WD6ENK, loaned the Club the money at 5.25%, to be paid back monthly (\$119) over 20 years. With the recent death of Jim it is possible that we could have the opportunity of buying the discounted note for something around \$11,000 (less than \$40 per club member), thereby saving the Club about \$4,000 in interest and about \$5,000 in principal, or almost half the cost of the property.

Please be prepared to express your views on this at the May meeting.

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, and \$9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530.

ADS & MATERIAL FOR SCOPE to P.O.Box 73, Vista, CA 92083-0030. Deadline is normally Monday of the week two weeks before the club meeting.

CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the cafeteria at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido Ave. in Vista. Visitors are welcome.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. 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).

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

May 86

THE SAN DIEGO COUNTY PACKET RADIO VOICE NET meets on 146.730 MHz each Tuesday at 2100. This net is to provide information on Packet Radio for the beginner and the advanced packeteer. All are welcome.

MAY CLUB MEETING

THIS WILL BE OUR FIRST MEETING IN OUR NEW LOCATION: LINCOLN MIDDLE SCHOOL ON ESCONDIDO AVE. BETWEEN EUCALYPTUS AND EAST VISTA WAY IN VISTA. The meeting will be held in the cafeteria. Plenty of parking is available at the north side of the school, adjacent to, and easily accessible from, East Vista Way near Escondido Ave. Parking is also available across Escondido Ave. from the School in the Vista City Hall parking lot and on the street adjacent thereto. See the map and diagram further on in Scope. Those who must park close to the meeting site may do so by informing W9FQN of such a requirement two days prior to the meeting.

THE PROGRAM for the evening will be presented by a field crew from KFMB, TV-8 from San Diego, who will help us to celebrate our 50th Anniversary by recording parts of the club meeting for airing on the 11:00 news the same night. TV-8's technical crew will also talk to us about how the news is recorded and transmitted back to the station.

SHOW AND TELL will feature portable HT power packs and other items of interest brought in by club members.

COFFEE AND THE USUAL NO-CAL GOODIES by Vina and all of us kind enough to bring some of those tasty non-fattening little mouth-watering jewels! Vina says thanks to all those who have helped; and that she still needs folks to sign up to help her in May and other months - PREASE!

APRIL CLUB MEETING

At the April club meeting Bob Traynor, WA7GRW, and Kerry Banke, N6IZW, told us about X-band microwave and how to get started in it. They also showed us some of their equipment to operate on this band where 1/4 wavelength is .28 inches. Bob Hoover, KA6HZF, showed us his 12VDC C-64/PK-64 packet radio station. W9FQN indicated that no meeting place had been picked out for the May meeting, but that a decision would be made at the forthcoming Executive Committee meeting and the result announced in the May Scope. N6INN announced that the new VE testing site had not been found yet and that the last tests at Glendale Fed would be the ones conducted on April 12. Coffee by Vina and goodies by Susan and Linda Rohrer. Wonderful!

Another very full house! It'll be great to have enough room for our 100+ gatherings so that we can get around and see each other, get to the exhibits and the coffee. Glendale Fed has been good to us for ten years or so, but it's well we have to leave - we've outgrown them! Nearly one-third of our membership of 321 now comes to meetings!

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the p.m. Club members are welcome to attend and observe.

At the April meeting, which was held at the home of W9FQN, the Committee voted to utilize the cafeteria at Lincoln Middle School on Escondido Ave. in Vista for future club meetings; and to sell the second Motorola MSY 450 MHz repeater back to WA7GRW. The Committee discussed the financial strain placed on the Club by the 500% increase in liability insurance (from \$150 to \$750); the problems with the obvious disarray of A.R.E.S. and the

emergency communications organization in north county; correspondence with Fried Heyn, our ARRL Division Director and with TASMA; and the possibility of raising enough money to buy the note on our property on Mount Palomar at a discounted price should it become available (one member will kick in \$1,000 towards the purchase). The Committee decided to publish a club roster in the May Scope. W9FQN was directed to respond to a letter from the ARRL SW Division Director.

REPEATER

On April 20th, a repeater site working party, consisting of N6LYX and son Richard, NU6L and brother Steve, W9FQN and daughters Susan and Linda, and WB6IQS, went to work and cleared brush, raked leaves, and installed temporary guy wires on the tower at the 30' level. WB6IQS, who had constructed a bench for the new 450 MHz repeater, installed it and connected up the batteries for the emergency supply to that repeater. A heavy-duty drill, loaned by N0CPS, made the work go faster. Another working party will be needed to finish the guy-wire installation and to install more batteries.

Thanks to Jay, W6FAY, for his donation of a beautiful automatic battery charger for the emergency power system of our 450 MHz machine.

We still need some support from our 450 repeater users to help pay for the MSY repeater. Our treasurer, WI6B, says that we need nearly \$100 more in the kitty. He has received contributions for the 450 repeater from: WD6B/WA6OHB, WI6B, N6FMK, K6HAV/N6INN, WB6IQS, W9KEX, WA6KZN, and K6ROR.

FIELD DAY JUST A NEWSLETTER AWAY

The annual ARRL Field Contest is just about seven or eight weeks away (June 28-29), so let's start sharpening up our antennas and oiling up our transceivers - or whatever it is we do to get ready for the next coming of Murphy. This is our one big outing of the year, and a great chance for all of our club members to get out and participate, help with the setting up or the tearing down, or just plain spectate.

We hope to operate all bands from 160M to 450 MHz, and maybe we can get Bob, WA7GRW, to come out and get us some contacts on "radar", and Paul, KB5MU, to get us a bunch on packet radio. We'll see you there.

SOUTHERN COUNTIES AMATEUR TELEPRINTER SOCIETY NEARING EXTINCTION

From recent issues of Scatter, the voice of the Southern Counties Amateur Teleprinter Society, which were sent to us by Vern, W6HW, it appears that the waning interest in RTTY is imperilling the existence of SCATS, which operates two RTTY repeaters, one on 146.700 and the other on 224.72. Consideration is being given to other forms of digital communications.

EXPIRING FCC LICENSES

Licenses expiring In May: WB6UON, N6EQB, N6GZI. In June: N0NE. In July: KA6PPD. August: WA6JPM.

FROM THE ARRL LETTER

An Extra Class certificate, suitable for framing, is available from ARRL. Send a copy of your Extra Class license and a \$3 check payable to ARRL to ARRL Headquarters, Awards Branch, Newington, CT 06111.

We are reminded that 2M simplex autopatches are legal AS LONG AS a separate control frequency, above 220.5 MHz is used.

The National Association of Broadcasters has asked for federal preemption of local RF radiation standards where they exceed those of ANSI.

May 86

FORESAIL

(That's a jib, son - not a marconi, see the onion)

Kenwood TW-4000A 2M & 450 MHz xcvr, \$400. Call Phil, K6ROR, 724-0098.

Azden PCS-5000 2M 25W xcvr, \$275. KDK SFX-10A 2M 10W xcvr, \$150. Call Buck, KA0RGQ, 941-0876. (5)

Hustler mobile HF antenna complete with fold over mast, resonators for 40, 20, and 15M, and bumper mount. Never used. \$80. Call George, W5OI, 723-1046. (5)

Kenwood 7950 w/PL TU79, mint condx, \$275; Kenwood 7950 w/PL TU79 plus Com. Spec. TE64 (Universal encoder-32 Std sub-audible plus 32 audible tones, including std. burst tones, test tones and touch tones w/32 channel LED filtered display) attached, mint condx, \$325; Yaesu FRG7000 general coverage rx, Radio West modified w/1.9 Collins SSB filter w/switch and 4K ceramic AM filter, mint condx, \$275. Write Tom Healy, N6DSX, 416 Bonair St., La Jolla, CA 92037. (5)

Swan 500C, 40' free-standing tower, Mini-quad. Call Charles, W6HYD, 724-8992. (4)

Drake TR-5 HF xcvr covers WARC bands 160-10M, w/noise blanker and cw fil. Heath HD 1144 15 amp pwr supply. All for \$470 and will split UPS shpg. Call or write Tony Musero, K3UKW, 1609 Iseminger St, Phila., PA 19148 215-271-8898. (5)

Vic-20, Datasette, USI Pi-1 monitor, Hamtext, and Kantronics Interface. Cushcraft 4-elm 2M beam. Call Dave, WA6HQM, 753-2605. (4)

Drake NB-5 noise blanker for TR-5 xcvr only \$20. Tektronix o'scope Mod. 5160 5" dual trace w/15 MHz bandwidth, good condx w/spare tubes, \$100. Call Dennis, N6KI, 271-6079. (4)

Radio Shack portable computer PC-2 hand held BASIC computer w/16K memory module, portable printer, and several books, \$85. Signal generator TS 497/URR 2-400 MHz, CW and AM w/good calibrated attenuator and output level indicator and manual, \$25. Call John, WB6IQS, 724-8380. (3)

Kenwood TS-520S HF xcvr, \$350. Call Ed Holm, K6II, 726-4337. (4)

Travel Electronics Travelphone, commercial 6-channel VHF, high power 5W, low power 1W, presently on Gemcon freqs w/acc. Call Doug 676-7321. (2)

Drake TX-4B HF tx, RX-4B HF rx, pwr supply, all for \$275. Call Bill, W6VDA, 466-4234. (5)

Kenwood TS-820s 160-10m 200W xcvr w/digital readout, as new, \$395; Kenwood VFO-820, \$95; Icom IC-740 xcvr, 160-10M + WARC bands, FM option, internal 117VAC pwr supply for AC or 12VDC operation, 2 yrs old, \$575; TV-1 PL encoder for TR-2500, \$18; AVT 10-20 slim-line vertical, \$45; Kenwood TH-21AT 2M HT, 3 mos. old, \$165. Call Duane, AA6EE, 789-3674 evenings. (5)

Tempo S-5 2M HT, \$130; Heathkit Apache TX-1 HF tx, \$50; Gonset 6N2 tx, \$20; scanner, \$40; Realistic DX-150 rx, \$20; Hallicrafter S-38, \$20; Heathkit SB-100 xcvr, \$100; Kenwood TS-520-S, \$325; Atlas 350XL, \$?; test equipment (o'scopes, sig gens, tube testers, etc); and many other hard to find quality items, cheap, cheep. Talk to W9FQN.

WANTED

(A few good men!)

Heath HX-1681 xmtr (pwr supply unnecessary) and HR-1680 rx. Neither needs to be working. Call Sandy, K6HE, 745-6940. (5)

1930, 31, & 32 RADIO magazines for research and reference. If you won't sell, would you loan them for 2-4 weeks? Call Floyd Paul, W6THU, (818) 242-8961, or drop a line to 1545 Raymond, Glendale, CA 91201. (5)

RV-75 vfo by Drake. Also want MN-2700, Kenwood HC-10 clock, SP-901P Ton, Musero, K3UKW, 1609 S. Iseminger St., Phila., PA 19148, 215-271-8898. (5)

May 86

For new radio amateurs just finishing Novice/Technician class: a) 2M radios - xtal or synthesized about \$100 or less. b) Novice rigs - cheap. c) HF VFO - cheap, cheap. Call Ron, W6TXK, HP 566-1959, WP 458-3706. (3)

HF antenna tuner; SWR/wattmeter; HF mobile antenna, 2M mag mount; element support and mast plate for Mosley tri-bander. Call Duane, AA6EE, 789-3674 Evenings. (4)

ICom IC-22A in working condx and/or other xtal contl solid state rig. Instruction sheet on Morgain 80-40M dipole. Call Dennis, N6KI, 271-6079.

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

UP-GRADES: Angel Sabino, N6MUA, from Technician to General Class. Mel Beener, N6ARS, from General to Advanced Class. Congratulations!

GNU CLUB MEMBERS: Lee Miller, W6TDC, Vista; Marvin Munster, WB6PKK, Simi Valley/San Diego; Bob Cahill, N6MEH, Fallbrook; Ed Holm, K6II, Vista; Al Roller, Cardiff; Jim Ward, WA3AAJ, San Diego; Lane Hart, N6LTV, Escondido; Carl Rummmler, W6NLW, Oceanside; Bill "Buck" Miller, N6BUK, San Diego; Bob Brehm, KB6QC, Carlsbad. Welcome. We're glad to have you with us.

RE-NUDE CLUB MEMBERS: Claude Kirkpatrick, W6DWE, San Diego; Henry Kirschner, WB0YCQ, Oceanside.

CHANGE OF CALL SIGN: Change Hal Lundstedt from W6JPB to W6JBP. Don't know why he (the Editor) couldn't get it right the first time.

FRENCH CONSULATE INTERESTED IN FRENCH SPEAKING SOCIAL HAMS

Nash, W6HCD, says that the French Consulate, 8350 Wilshire Blvd, Beverly Hills, CA 90211, is interested, in the event of a major earthquake, in contacting French speaking hams in the Southern California area from San Luis Obispo south to the border in order to establish direct contact with French families in the area. The area also includes Arizona, Nevada, and Colorado. If you're interested in helping, contact the Consulate.

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

Applicants for examination must send a S.A.S.E., 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.

VOLUNTEER EXAMINERS PROGRAM de Pat Crossman, N6INN

The April VE test session was our last at Glendale Fed. Our congratulations to Mel Beener, N6ARS, who up-graded to Advanced Class. Our VE team consisted of KG6VX at the front desk; W6DEY and N6IE administering the CW examination; W6SAX proctor; W6HAW, W6YYV, KS6S examiners; and K6HAV assisting. Of seven examinees, four had at least partial success.

Thanks to the willing assistance of Doc Burton, KA6DWU, a fellow club member, we now have excellent new quarters for our future VE-conducted FCC exams. After searching high and low in Vista, Doc was called and responded quickly with the Joslyn Senior Center behind the City Hall in San Marcos. San Marcos City Hall is on Richmar at Twin Oaks Valley Rd. Our new space is easier to get to for out of towners. If anyone could find us a place in San Marcos, Doc Burton could. HE'S THE MAYOR! Thanks, Doc.

ANNUAL PICNIC TO BE HELD IN BRENGLE PARK

This year's annual club picnic will be held in Brengle Park on Vale Terrace in Vista on Sunday, the 24th of August. More details later.

DOWN THE TOOBE

Hod, W6UCN, was in town from Marshall, TX visiting relatives. It was a rare treat to see him at the April club meeting. Hod was the owner of our present repeater site when we built the building on it.

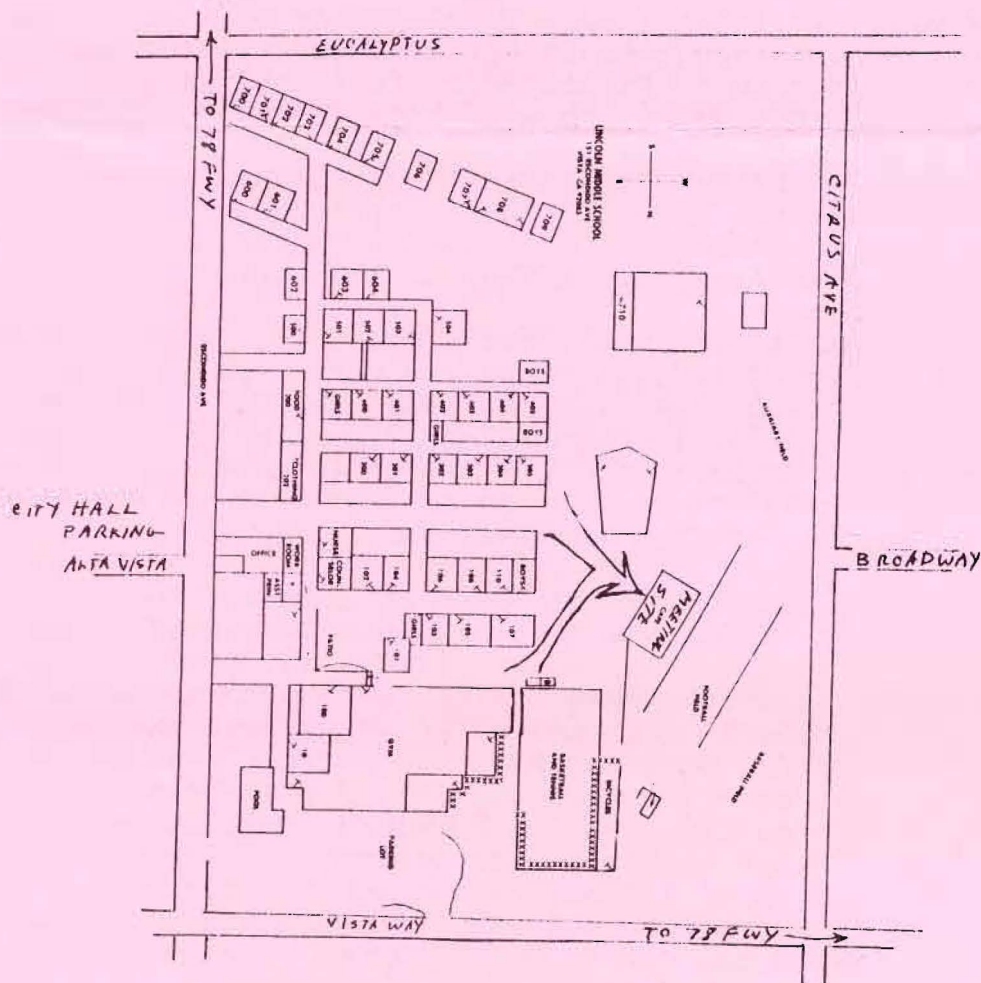
Bill Driml, W6NA1, past president, long-time north county resident, and now a fugitive in Ft. Dick, (CA that is) says that his activities there kept him from the 50th Anniversary celebration. He sends congratulations to all; and says he talks to WA6KZN, W6FAY, and W6HAW on 75M.

A note from Carl, WD6B, and Leona, WA6OHB, tells of their attempt to use an abandoned NASA rhombic at Guaymas, which was thwarted, by a faulty balun at the masthead. They had Malaga hauled out at Guaymas and had years of accumulation scraped from her hull. They also held VE test sessions there.

Our April meeting was like old home week with both Hod, W6UCN, and Ed Holm, K6II, on hand. A real treat! Good to have Ed back as a member too!

Congratulations to Caroline Lincoln, XYL of Bud, KG6VX, who has passed her Novice exam and is awaiting her license.

"That's all," she wrote.



PALOMAR AMATEUR RADIO CLUB, INC.

MEMBERSHIP-BY-CALL

17-APR-86

WA3AAJ Ward, James M.	San Diego CA	WA6DYV Swader, John B.	Fallbrook CA
A0ABX Williams, Bill	Escondido CA	N6ELP Crumpton, Dee	Encinitas CA
KI6AC Clark, R. 'Don'	San Diego CA	N6ENI Poole, Barry	Vista CA
W6AFZ Steelman, Robert	San Diego CA	N6EQB Miller, Raymond	Fallbrook CA
WD6AHX Dewey, Wayne	Oceanside CA	WA6ESG Castagna, Ed	Vista CA
KB6AI Rowlett, Guy	Oceanside CA	N6ETH Merritt, Robert	Lemon Grove CA
KB6AIW Miller, Yvonne	Escondido CA	W6EVL Nichols, Art	Fallbrook CA
N9AKB Carlsen, Kenneth O.	Carlsbad CA	N0EVV Paschke, Mary	Santee CA
N0AL Cassel, Alan	Marietta GA	W6EYP Lincoln, Warren	San Marcos CA
N7AMR Willett, Allen	Carlsbad CA	WA6EYX Way, Ed	Escondido CA
WA7AMS Specht, Ernie	Vista CA	W6FAY Carr, Jay	Escondido CA
N6ARS Reener, Melvin A.	Oceanside CA	W6FET Stovall, Herb	Fallbrook CA
N7AS Grant, Gary	Lake San Marcos CA	W9FFG Smithana, Don	San Diego CA
N6AT Cassen, Frank	Fallbrook CA	N6FGE Stissall, Frank	El Cajon CA
W2AUO Shaut, Stanley	San Diego CA	KG6FK McCoy, Donald C.	La Jolla CA
K6AYJ Nichols, Edith	Fallbrook CA	KB6FMJ Nida, Ted H.	Vista CA
WB6AZQ Haynes, Charles	Pauma Valley CA	N6FMK Bowen, Bill	Vista CA
WI6R Wilhelms, Ron	Rancho Santa Fe CA	KA6FPS Rohrer, Barbara	Valley Center CA
N6BAD Reber, John	San Diego CA	W9FQN Rohrer, Stan	Valley Center CA
KX6RE Martin, Alan	Encinitas CA	W6FQV Dussault, Don	Fallbrook CA
WD6BEZ Gonsett, Judy	Encinitas CA	W6FTV Falls, Edward L.	Fallbrook CA
KE6BH Countryman, Bill	Oceanside CA	WD6FWE Johnson, Don	Carlsbad CA
WB6RHE Harvey, Vanessa	San Marcos CA	K3FWT Divecchio, Mark	San Diego CA
W4RHF Dobler, Ray	Poway CA	W2FWV Levesque, Will	Carlsbad CA
K7BHI Loyer, Stan	Fallbrook CA	W6FXL Goepfinger, Albert	Escondido CA
WA7BIA Lewin, A. A.	Encinitas CA	KD6FY Belfield, Scott	San Diego CA
KB6BIL Shifflet, Wm. C.	San Diego CA	N6FYI Rice, Leroy	Vista CA
6BLL Williams, Jack	Carlsbad CA	NZ6G De Plomb, Eugene	Rancho Santa Fe CA
WD6BNX Dean, Robert K.	Valley Center CA	KA6GHE Patchel, Judith	San Diego CA
K6BPT Skinner, Muriel 'Skip'	Fallbrook CA	K6GJD Salter, Bill	Vista CA
WD6BRX Brouillet, Paul	Escondido CA	N6GJW Folsom, Russ	Ramona CA
WA6BSD Lang, Steven	Escondido CA	KF6GN Randall, Larry	Poway CA
W6BXJ Coup, Bob	Vista CA	N6GNB Fahnestock, Albert	Escondido CA
N6CKQ Broadbent, Louis	Solana Beach CA	W9GNI Witting, Martin J.	Oceanside CA
K6CLU Leak, Earl	Vista CA	K6GRS Esterly Jr., Harold D.	San Diego CA
KH6CN Harper, Jim	San Diego CA	N6GRB Myers, Jeff	El Cajon CA
N6CDU Whipple, Bill	Oceanside CA	WA6GRE Wolzinger, Keith	Irvine CA
N0CPS Paschke, Vern	Santee CA	KA6GRG Calvert, Chuck	Vista CA
WB6CSH Hamann, Michael	Del Mar CA	WA7GRW Traynor, Bob	San Diego CA
WA1CS0 Silveira, Joseph	Vista CA	N6GSS Cunningham, William	Fallbrook CA
KB6DEM Ross, Judy	San Diego CA	KG6GW Ames, Russ	San Diego CA
W6DEY Maxson, Roy	San Marcos CA	N6GW Wenz, Gordon	San Diego CA
KB6DGR Mahoney, Betty	Chula Vista CA	N6GWJ Fahnestock, Mickey	Escondido CA
KA3DKJ O'Neil, Edward	Pittsburgh PA	WB6GXR McBride, Willert 'Mac'	Lakeside CA
KB6DKR Pennington, Walter	Oceanside CA	KB6GYG Good, Gene	Vista CA
WD0DLW Honts, C. N. 'Jack'	Fallbrook CA	WA6GYG Craik, Robert B.	Vista CA
W6DNX Langjahr, Carl	Oceanside CA	N6GZI Ross, Ed	San Diego CA
W6DOL Janssen, Hal	San Diego CA	K6HAV Crossman, Ralph	Vista CA
KE7DR Tuttler, Dora	Mesa AZ	W6HAW Olsen, Irvins 'Boots'	Vista CA
KB6DSC Bruin, Betty B.	San Diego CA	W6HC Hoddson, Charles I.	San Diego CA
N6DSU Healey, Wilma	La Jolla CA	W6HCD Williams, Nash	Bonsall CA
N6DSX Healey, Thomas	La Jolla CA	KB6HCH Buckner, Mary	Vista CA
6DVL Dempsey, Ralph	San Diego CA	K6HE Sandberg, Sandy	Escondido CA
W6DWE Kirkpatrick, Claude L.	San Diego CA	WB6HHV Brock, Michael	San Diego CA
KA6DWU Burton, Doc	San Marcos CA	KE6HI Bourhenne, Alma	Cardiff CA

May 86

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17-APR-86

KB6HIA Reed, Geneen	El Cajon CA	W1LE Hay, Dick	San Diego CA
W7HKI Larison, Larry	Oceanside CA	WB6LEH Riseley, Jim	San Marcos CA
W6HLB Crais Sr., Joe	Oceanside CA	N6LEZ Litchman, Tom	Vista CA
WB6HMY LaPointe, Joe	Oceanside CA	N6LGP Hutchins, Frank	Oceanside CA
K7HOE Mattson, Clarke	Vista CA	K6LNJ Pearce, Art	Oceanside CA
WA6HQM Copley, Dave	Encinitas CA	KB6LNP Soares, Manuel	Oceanside CA
WB6HSZ Campbell, John	Vista CA	KF6LP Bauersfeld, Bob	Solana Beach CA
W6HW Baumsartner, Vern	Oxnard CA	N6LTV Hart, Lane	Escondido CA
KB6HWE Dillinger, Mary	Escondido CA	WA6LUX Garner, Ray	San Diego CA
WA6HYB Pugh, D. C.	Oceanside CA	N6LVN Reed, Rod	El Cajon CA
WA6HYC Watt, Bill	Oceanside CA	N6LYX Earl, Gerald R.	Poway CA
W6HZJ Krebs, Russ	Fallbrook CA	KV6M Stone, Mort	Potrero CA
WA6IBB Matthews, Auldrie J.	Asuanda CA	N6MEH Cahill, Bob	Fallbrook CA
N6IE Ferranto, Felix	Vista CA	WB6MEI Hammond, John	San Diego CA
K6II Holm, Ed	Vista CA	W6MFT Nielsen, Will O.	San Diego CA
W6INI Smith, Art	San Diego CA	KB6MI Smith, George	National City CA
WA6INL Dau, Walter	San Diego CA	N6MMP Fisher, Mike	Ramona CA
N6INN Crossman, Pat	Vista CA	N6MMS Jones, Robert W.	San Marcos CA
WA6IPD Rideout, Art	Fallbrook CA	N6MOI Earl, Cindy	Poway CA
WA6IPF Stack, Paul J.	Vista CA	WA6MOS Pevney, Joe	Carlsbad CA
W6IPQ Chase, Herbert E.	Chula Vista CA	N6MOU Littlefield, Charles	Vista CA
KB6IQA McCollum, Ross	San Diego CA	N6MQV Nielsen II, Will O.	Vista CA
WB6IQS Kuivinen, John	Vista CA	N6MSC Partridge, Delmar E.	San Diego CA
W6IRM Inskeep, Chuck	Oceanside CA	KB6MU Williamson, Paul T.	San Diego CA
KB6ISU McKinney, Stephen B.	Rancho Santa Fe CA	N6MUA Sabino, Angel	San Ysidro CA
W6IUG West, Richard O.	San Diego CA	N6MVZ Caldwell, Benton	Carlsbad CA
WA6IWK Patchel, Herbert	San Diego CA	K6MXM Chico, Earl	Escondido CA
NC6J Chambers, Bob	San Diego CA	WA6MXM Hammond, Brian	San Diego CA
W6JBP Lundstedt, Harold E.	Escondido CA	KB6MY Hammill, Lt. Daniel L.	FPO SFC
WA6JCG Browne, Bob	San Diego CA	N6NA Smith, Marvin	Vista CA
W6JLW Rustin, Charles	El Cajon CA	N6NAF Rogers, Stephen	San Diego CA
WA6JPM Mocabee, Dave	Fallbrook CA	N6NAG Rogers, Gayle	San Diego CA
W6JBP Harvey, Floyd	San Marcos CA	N6NAV Pakaski, Ted	Carlsbad CA
N6JTT Botieff, Dave	Vista CA	N6NEH Neiser, Ralph	Escondido CA
WB6JVS Rouse, Harry A.	Oceanside CA	W6NFG Mandy, Bill	San Diego CA
KB6JWM Blackmore, F. Bill	San Marcos CA	WB6NIG Breyer, H. D.	Oceanside CA
N6JZB Cook, Wally	Carlsbad CA	WB6NIJ McLaren, David	Vista CA
WF6K Dillinger, Paul	Escondido CA	W6NLH Rummler, Carl	Oceanside CA
N6KAL Matros, Betty	Ramona CA	WA6NNC Rivera, Bob	Vista CA
KB6KBI Smith, Robert I.	Chula Vista CA	WB6NPI Alu, Leonard	Vista CA
W6KCB Jankowski, Edward	Valley Center CA	W4NYU Gates, Howard	Santee CA
N6KEU Matros, Roy	Ramona CA	WA6OAR Hammond, Randy	San Diego CA
W9KEX Watson, Jerry	San Marcos CA	WB6OBH Mayes, Pete	San Marcos CA
N6K GK Willis, Lee	Oceanside CA	WB7OCR Evans, Lee	Valley Center CA
N6KHF Gatlin, Tom	Oceanside CA	WB6ODR Smith, Robert R.	El Cajon CA
N6KI Vernacchia, Dennis	San Diego CA	W6OFT Call, Clint	Carlsbad CA
N2KK Schoen, David	San Diego CA	WA6OHB Wallace, Leona	La Jolla CA
N4KRA Merz, Tom	San Diego CA	W5OI Henderson, George	Fallbrook CA
N6KUY Wong, Dennis	San Diego CA	WB6OJL Call, Eleanore	Carlsbad CA
N6KWC Pakus, Paul J.	Ramona CA	W60KG Glaser, Peter	Oceanside CA
WA6KWM Carr, David J.	El Cajon CA	W60LQ Tentor, John	San Diego CA
WA6KZN Heitser, Bob	Carlsbad CA	W60ML Powell, Richard	Vista CA
NU6L Contosenis, Joey	San Diego CA	W60MM Jordan, F. C. B.	Rancho Santa Fe CA
WF6L Leonelli, Phil	Oceanside CA	KA8OUD Zusack, Mike	Vista CA
K6LBC Jadovitz, Jerry	El Cajon CA	W60VP Lien, David A.	El Cajon CA

May 86

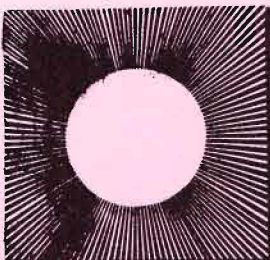
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17-APR-86

K6PBE Broton Jr., Boyd	La Mesa CA	K6TQ Taylor, Wm. H.	Vista CA
W6PEU Garlow, Britt	Fallbrook CA	WB6TQF Halsburton, Alex	San Diego CA
W6PII Traynor, Judy	San Diego CA	WA6TXJ Ferdyn, Joseph	Pauma Valley CA
W6PKK Munster, Marvin	Simi Valley CA	W6TXK Earl, Ronald C.	San Diego CA
W6PNT Olsen, Fred	San Diego CA	W6TZV Crispell, Hal	San Diego CA
K6PP Horrell, Gene	El Cajon CA	W6UAP Young, Fred	San Marcos CA
KD6PP Krusen, Don	Santee CA	KF6UB Drey, Joseph	Chula Vista CA
KA6PPD Heisman, Paul	Vista CA	WA6UGG Wilson, Wesley	Vista CA
KA6PSH Miller, Raul	Escondido CA	KA6URU Harris, Billy W.	Vista CA
K6PUN Gordon, Doug	Los Angeles CA	W6UUJ Bartels, Harold	Vista CA
K6PZE Gird, Dick	San Diego CA	WN6V Callender, Carl	San Diego CA
WA6QBO Williams, Richard	San Luis Rey CA	WQ6V De Montesre, Larry	Vista CA
KB6QC Brehm, Bob	Carlsbad CA	W6VDA Vlymen, Bill	La Mesa CA
K6QCW Barber, John	Spring Valley CA	KH6VO McManis, Jim	Santee CA
KB6QF Horrell, Maurice	Vista CA	WB6VON Bann, Gary	San Diego CA
KA6QFF McCormick, Matt	Vista CA	KB6VQ Siemons, Marcel	Oceanside CA
K2QGT Guthrie, Tom	San Diego CA	WB6VSG Janko, Noel R.	San Diego CA
W6QP Forbes, Jack	Vista CA	KG6VX Lincoln, Chester "Bud"	Leucadia CA
WA6QQQ Gonsett, Bob	Encinitas CA	WB6VYC Chambless Jr., Burr	San Luis Rey CA
WA6QQW Lenci, Andrew	Ramona CA	WA6VYD Chambless, Burr	San Luis Rey CA
KE6QV Fay, Charlie	Oceanside CA	WB6WGT Harker, Harland "Hark"	Vista CA
K6QXW Blair, Bill	Solana Beach CA	WB6WGU Williams, Sandy	Escondido CA
WB6R Stedman, Duane	Cardiff CA	K7WLX Felton, Bob	Carlsbad CA
K6RF Cullian, Ted	Oceanside CA	W6WFO Priest, Bill	Vista CA
KA6RGQ Buckner, Bill	Vista CA	WB6WQI Null, Ed	Vista CA
WA6RLT Smith, Mel	Lakeside CA	WA1WTF MacKerron, Peter	San Diego CA
K6ROR Schutze, Phil	Vista CA	KD6WX Patchel Sr, Herbert	San Diego CA
WB6RSG Tennyson, Thomas	Santee CA	KD6WZ Frey, Fredrick	Carlsbad CA
RTD Maynard, George	Vista CA	KZ6X Buscema, Paul	Encinitas CA
K2RTQ Hassell, Nathaniel W.	Santa Ysabel CA	WB6YCR Kirschner, Henry	Oceanside CA
WB6RWF Brown, Jim	Oceanside CA	K6YGK Uminski, George	Del Mar CA
KM6S Samuels, Joan M.	San Diego CA	KA6YJH Rissen, Judith	San Diego CA
KS6S Rice, Bob	Oceanside CA	W6YLA Balke, Jerry	Vista CA
W6SAX Parker, Marsh	San Diego CA	WB6YVT Golden, Chuck	Oceanside CA
W6SE Martin, John	Encinitas CA	N6YX Bell, Bob	Escondido CA
K6SLA Church, Jim	Vista CA	W6YYV Burdette, Sam	Oceanside CA
WB6SML Horgan, John	San Diego CA	AD6Z Rice, Jane	Oceanside CA
W6SMP White, Jack	Palm Desert CA	AK6Z Lee, Gayle	Vista CA
WA6SVN Wandschneider, Herb	Oceanside CA	NG6Z Denton, William H.	Lakeside CA
WM6T Tilley, Aubra	Pauma Valley CA	KD6ZA Kimball, Chuck	Chicago IL
N7TA Friend, Larry	Ranchita CA	WB6ZJZ Gibbs, Charley	Oceanside CA
WB6TBA Gates, Bob	Carlsbad CA	WA6ZKC Wolfe, Emily	Solana Beach CA
WB6TBQ McCord, Billy	Vista CA	WA6ZKD Wolfe, Stan	Solana Beach CA
W6TCI Williams, Harry	Vista CA	ASSOC. De Montesre, Vina	Vista CA
W6TDC Miller, Lee	Vista CA	ASSOC. Enders, Marlin	San Diego CA
N6TE Bluestein, Harry	La Jolla CA	ASSOC. Henderson, Loretta	Fallbrook CA
W6TET/WB6OIXSD Mtn Res Team	San Diego CA	ASSOC. Kavan, Mrs. Edith	Encinitas CA
W6TFB Hunt, Lloyd	Oceanside CA	ASSOC. Long, John K.	San Marcos CA
W6THS Pottberg, Gene	Escondido CA	ASSOC. Miller, Barbara	Vista CA
W6THU Paul, Floyd	Glendale CA	ASSOC. Roller, Adolf "Al"	Cardiff CA

May 86



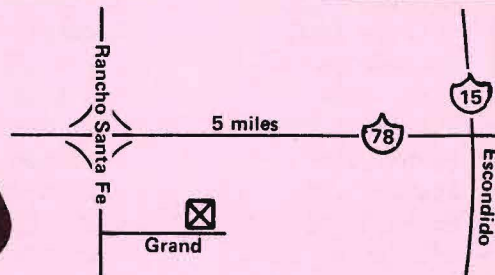
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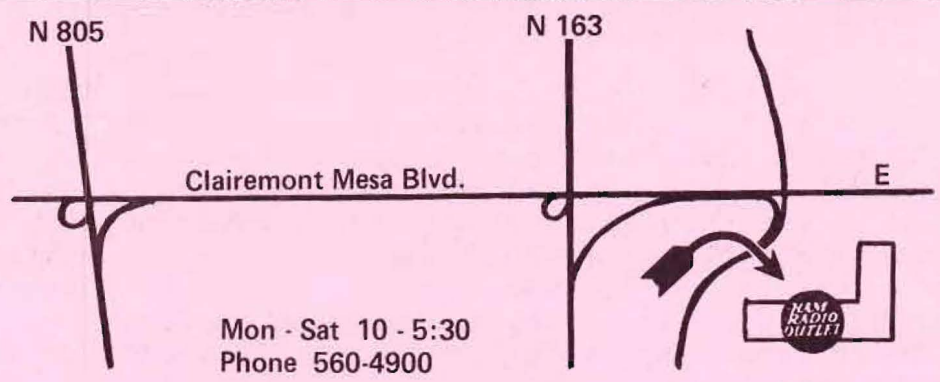
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BYTES 'N PIECES

By Paul Williamson, KB5MU

POINTERS FOR QSO-STYLE OPERATION ON PACKET

I have seen many packet operators use "K" or "-O" at the end of their transmission to signal the other operator that it is his turn to type. This is entirely unnecessary; with packet radio, you can both be typing at once and nothing terrible happens. It is courteous to humor the operator who insists on "taking turns", but it is quicker and more fun to start typing as soon as you have something to say.

It is common to use abbreviations from RTTY or CW or other communications environments on packet. Poor typists benefit especially from the saved keystrokes. It is easy to get carried away, though, and produce a cryptic puzzle instead of a communication. The speed and character set of packet allow you to be as expressive as you like. Don't feel obligated to overuse abbreviations.

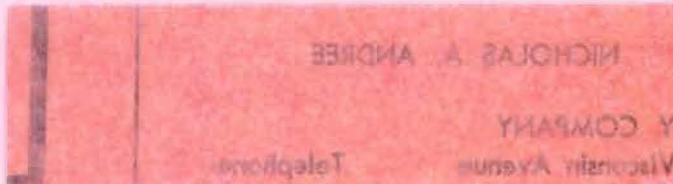
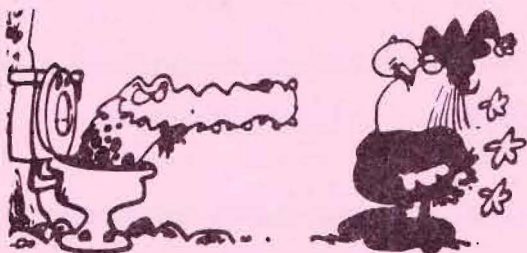
If your computer can handle lower case letters, use them. There is no need to shout. If the operator on the other end prefers to see upper case characters, he can tell his TNC to do the translation (LCOK OFF on a TAPR TNC). Lower case letters exist because they are easier to read: use them!

Don't type and type forever without hitting return. Some terminals can't handle more than 80 characters on a line. Most packet operators (except PK-64s, sigh) use 80 column displays. Hitting return before the 80th column shortens the packets sent and the time before your message starts to arrive. It also avoids breaking your words at the end of the line and hanging the cursor in the middle of a line.

There is finally a book available for the packet radio beginner. It's called "Get ***CONNECTED TO PACKET RADIO" and it's by Jim Grubbs, K9EI. Look for it at HRO any day now, or order direct from QSKY Publishing, P.O. Box 3042, Springfield, IL 62708. It's \$12.95 + \$2.50 S&H.

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NORTHERN SAN DIEGO COUNTY



THE PALOMAR AMATEUR RADIO CLUB, INC.

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W6NWG

Scope

VOL. XXI, NO., 6

1936 - 1986

JUNE, 1986

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
 VICE PRESIDENT: Larry de Montegre, WQ6V, Vista 726-0353
 SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
 TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

---FROM THE PRESIDENT---

RENEWAL TIME is on us again. Our club year ends July 31st, but we like to start collecting membership dues early so that our club treasurer doesn't have so much work that MUST be done in a short time. The Club appreciates all of the work that so many of you have faithfully performed. Now is the time for everyone to support with dues our many club activities such as: 2M repeater, 450 MHz repeater, packet repeater, club picnic, Field Day, ARES, the National Traffic System, club programs, VEC (FCC) testing, and our new club training program.

Membership in the PALOMAR AMATEUR RADIO CLUB supports amateur radio, so encourage your friends to join the Club even if they can't attend club meetings. Non-member amateurs who use any of our services and facilities should be invited to become a part of the group and to share in the comradeship of a great group of amateurs.

The application blank in this issue requests a lot of information which we hope members will complete as fully as possible. If it's too much for you, just fill in the eight lines marked with the "*" and whatever else moves you. We are attempting, once each five years, to get more data on the club membership so that we can better serve you and your interests.

If the Club decides to retire the mortgage on the repeater site sometime in the next five years, how much would you be willing to pledge over the next five years? If you don't know now, leave it blank. With our present membership of 320+ it would take an average of about \$40 per member to do the job. Among other ways to raise the money, we might consider a \$100 plaque to be engraved with names and call signs and installed at the repeater site for posterity. We are also considering the sale of some items at the National ARRL convention in San Diego. If you have any ideas as to how we might raise the money, please let us know your thoughts.

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, and \$9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530.

ADS & MATERIAL FOR SCOPE to P.O.Box 73, Vista, CA 92083-0030. Deadline is normally Monday of the week two weeks before the club meeting.

June '86

CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the cafeteria at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido Ave, Vista. Talk in on 146.730 MHz. Visitors are welcome.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. 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).

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

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 MHz (- 600) at 2000 local to handle formal written traffic. Visitors are welcome. Net Control Stations and Liaison Stations are needed. Apply to net manager WB6HMY.

THE SAN DIEGO COUNTY PACKET RADIO VOICE NET meets on 146.730 MHz each Tuesday at 2100. This net is to provide information on Packet Radio for the beginner and the advanced packeteer. All are welcome.

JUNE CLUB MEETING

THIS WILL BE OUR SECOND MEETING IN OUR NEW LOCATION: LINCOLN MIDDLE SCHOOL ON ESCONDIDO AVE. BETWEEN EUCALYPTUS AND EAST VISTA WAY IN VISTA. The meeting will be held in the cafeteria. Plenty of parking is available at the north side of the school, adjacent to, and easily accessible from, East Vista Way near Escondido Ave. Parking is also available across Escondido Ave. from the School in the Vista City Hall parking lot and on the street adjacent thereto. Those who must park close to the meeting site may do so by informing W9FQN of such a requirement two days prior to the meeting.

THE PROGRAM FOR THE EVENING WILL BE presented by Bob Gonsett, WA6QQQ, of Communications General Corporation, who will tell us about his work as a consulting radio engineer for the broadcast industry.

SHOW AND TELL will feature emergency HT power packs, and anything else brought in for display.

COFFEE AND THE USUAL NO-CAL GOODIES by Vina IF SOME OF US REMEMBER THAT THERE WON'T BE ANY TASTIES IF WE DON'T BRING THEM!!! Vina says thanks to all those who have helped; and that she still needs folks to sign up to help her in the coming months - PLEASE!

MAY CLUB MEETING

At the May club meeting, we heard a most interesting discussion of TV news reporting by Gregg Rawdin, Assignment Editor of Channel 8 TV News. He fielded numerous questions with good grace and agility. The televising of the club meeting was overtaken by higher priority events - like the possibility of a tsunami generated by the Alaskan earthquake of that day.

The minutes of the previous meeting and the Treasurer's report were heard and approved. Various committee reports were also heard. N6INN requested club members who hold Advanced Class licenses file Volunteer Examiner Applications with SANDARC-VE to assist with the examinations to be given at the ARRL National Convention the first Saturday afternoon in September.

The Club voted to participate in the 1986 ARRL Field Day Contest. The advisability of attempting to buy the first trust deed on the Club's repeater site was discussed at some length. W6TXK showed us a neat device to increase the portable use of a handy-talky. W6KCB received the DIPPLE Award for his detailed study of tower orientation. WF6L was awarded a de Montegre-baked-and-decorated birthday cake for having made it through as many years as he has (34 or 43 - depending on which way the cake was facing). Excellent coffee, cake, and tasties - as usual - by Vina and friends were easy to reach due to the uncrowded room. (ONLY 90+ folks). *

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the p.m. Club members are welcome to attend and observe.

At the May meeting, which was held at the home of W9FQN, the Committee voted to reimburse KA0RGQ for parts to refurbish a beam for the Club; to authorize WB6IQS to spend up to \$50 for parts for construction of a new control circuit; to pay for all gas and oil used in generators at the Club's Field Day site. The Committee decided to further poll the membership on its feeling about retiring the note on the repeater site, holding any decision thereon until September.

REPEATER

It is the policy of the Palomar Amateur Radio Club to ignore hecklers and jammers. Acknowledgment, in any form, gives the jammer the recognition he seeks. Please listen on the repeater input and attempt to hear and ascertain the direction from which the interfering signal is coming.

Thanks to Hal Crispell, W6TZV, for his generous contribution to help with the new 450 MHz repeater - and Hal doesn't even use it. How about a user or two...

FIELD DAY

The Club voted to participate, so please plan to come out and help or at least cheer us on. Visitors and ops alike should sign in on the sheet provided by our Rusty secretary, WF6L. See the separate page on FD ops in this issue. Try to work us on 2M, 220 & 450 MHz simplex on the even hours.

EXPIRING FCC LICENSES

Licenses expiring In May: WB6UON, N6EQB, N6GZI. In June: NONE. In July: KA6PPD. August: NONE.

FROM THE ARRL LETTER

The FCC has issued a Notice of Proposed Rulemaking, which would enhance Novice privileges by authorizing telephony or digital communications on the 28, 220, and 1240 MHz bands, as requested by ARRL in its petition of last June. The specific proposals are: The 10M Novice band would be expanded to 28.1-28.5 MHz, and CW and Digital communications (RTTY, AMTOR and Packet) 28.1-28.3 MHz, and SSB and CW 28.3-28.5 MHz at 200W. The 220-225 MHz band would be added to Novice privileges, all authorized emissions with a power of 25W. A portion of the 23 cm band, 1246-1260 MHz, would be added to Novice privileges, allowing them all authorized emissions with a power of 5 watts. Novices will be able to operate through repeaters on the 220 MHz and 1240 MHz bands. They would not be permitted to be control operator or licensee of a station in repeater, auxiliary or beacon operation. The

June 86

NPRM proposes increasing the comprehensiveness of the Novice exam by expanding it to 30 questions with a question pool of 300. See June QST.

ARRL has petitioned the FCC to require the labeling of home electronic equipment relative to its RFI susceptibility.

Stories concerning the "free usage of a geostationary satellite" just aren't so. NASA says it's for corporate users with "time division multiple access terminals" (price tag about \$100K). NASA is NOT looking for radio amateurs and doesn't understand why the amateur press thought so.

Latest call signs issued as of April 1 were: WR6P, KI6DQ, N6NKB, KB6MCI. (So when you hear N6PQR on, as we did, you'll know he's a Lurkey Turkey!)

FORESAIL

(That's a jib, son - not a marconi, see the onion)

Commodore 64 computer, \$100; 1541 disk drive, \$140; DPS-1101 daisy wheel printer, \$175. All used less than one hour. \$400 for the package. Telex ProCom headset w/mike, new, never used, \$35. Call Allen, N7AMR, 434-5656.

Azden PCS-5000 2M 25W xcvr, \$275. KDK SFX-10A 2M 10W xcvr, \$150. Call Buck, KA0RGQ, 941-0876. (5)

Collins 75S3 hf rx. Call Jack, W6QP, 724-3341.

Hustler mobile HF antenna complete with fold over mast, resonators for 40, 20, and 15M, and bumper mount. Never used. \$80. Call George, W5OI, 723-1046. (5)

Swan SS-200A solid state HF xcvr w/Turner 444 mike and matching PS-20 pwr supply, \$175. Johnson KW Matchbox w/SWR meter, \$125. Call Ralph, K6HAV, 727-5866.

Kenwood 7950 w/PL TU79, mint condx, \$275; Kenwood 7950 w/PL TU79 plus Com. Spec. TE64 (Universal encoder-32 Std sub-audible plus 32 audible tones, including std. burst tones, test tones and touch tones w/32 channel LED filtered display) attached, mint condx, \$325; Yaesu FRG7000 general coverage rx, Radio West modified w/1.9 Collins SSB filter w/switch and 4K ceramic AM filter, mint condx, \$275. Write Tom Healy, N6DSX, 416 Bonair St., La Jolla, CA 92037. (5)

Swan 500C, 40' free-standing tower, Mini-quad. Call Charles, W6HYD, 724-8992. (4)

All Drake: TR4C xcvr, \$250; AC4 ps, \$50; MN-2000 ant tuner, \$190; W4 wattmeter, \$65; R4C rx (26000 sn) xlnt condx, \$200; AC4 ps, mint, \$120; NB4 noise blanker for R4C, \$95. Kenwood gen cov rx w/CW fil, mint, \$475. Call 215-271-8898 or write to Tony Musero, K3UKW, 1609 Iseminger St, Phila., PA 19148 (6)

Vic-20, Datasette, USI Pi-1 monitor, Hamtext, and Kantronics Interface. Cushcraft 4-elm 2M beam. Call Dave, WA6HQM, 753-2605. (4)

Travel Electronics Travelphone, commercial 6-channel VHF, high power 5W, low power 1W, presently on Gemcon freqs w/acc. Call Doug 676-7321. (2)

Drake Twins, TX-4B, R-4B, MS4, spkr pwr supply, Shure 444 mike, all interconnecting cables and manuals, \$250. Call Bill, W6VDA, 466-4234. (6)

ICOM IC-740 xcvr, new '84, many opts incl. intern ps, FM, CW fil., mint condx, \$595; Kenwood TS-820S, \$385; VFO-820, \$75; Heath SB-201 1200W amp, \$265; Yaesu SP-901P spkr/fone patch, \$50; WE AVT10-20 slim-line design restricted space vertical, \$40; B&W 10-75M trap dipole, near new, \$40; Cushcraft 2M 20-elm array, \$15. Call Duane, AA6EE, 789-3674 evenings. (6)

Tempo S-5 2M HT, \$120; Heathkit Apache TX-1 HF tx, (great for CW) \$50; Gonset 6N2 tx, \$20; scanner, \$40; Realistic DX-150, \$20; Hallicrafter S-38, \$20; Heathkit SB-100 xcvr, \$95; Kenwood TS-520-S, \$300; Atlas 350XL, \$200; test equipment (o'scopes, sig gens, tube testers, etc); and many other hard to find quality items, cheap, cheep. Talk to W9FQN at 749-0276.

WANTED

(A few good men!)

Bearcat 25 or 350 scanner. Call Allen, N7AMR, 434-5656.

A home for the Club's QST collection. Anyone willing to take them and maintain them as a library for the Club. Contact Larry, WQ6V, 726-0353.

Club members interested in taking part in a Saturday, August 23rd 20-mile bicycle ride up and down the coast and ending with brunch. If you'd like to participate, call Arnie, WA7BIA, 942-1166, now, and start training.

Experienced owners with portable VHS video recording equipment are needed to help capture the 1986 ARRL Convention, September 5-7 at the Town and Country Convention Center. Ideas and creativity utilizing your equipment are welcome. Call Jack Carlson, K8WEN, 566-2092.

Heath HX-1681 xmtr (pwr supply unnecessary) and HR-1680 rx. Neither needs to be working. Call Sandy, K6HE, 745-6940. (5)

1930, 31, & 32 RADIO magazines for research and reference. If you won't sell, would you loan them for 2-4 weeks? Call Floyd Paul, W6THU, (818) 242-8961, or drop a line to 1545 Raymond, Glendale, CA 91201. (5)

Drake RV-75 vfo and other acc. for TR7; Drake MN-2700 w/B-1000 balun; Kenwood HC-10 clock; 2M all mode base xcvr for about \$200. Tony Musero, K3UKW, 1609 S. Iseminger St., Phila., PA 19148, 215-271-8898. (6)

For new radio amateurs just finishing Novice/Technician class: a) 2M radios - xtal or synthesized about \$100 or less. b) Novice rigs - cheap. c) HF VFO - cheap, cheap. Call Ron, W6TXK, HP 566-1959, WP 458-3706. (3)

R-2000 rx, antenna tuner, MC-50 mike, operating manual for Yaesu FT-227RA 2M xcvr. Call Duane, AA6EE, 789-3674.

ICom IC-22A in working condx and/or other xtal contl solid state rig. Instruction sheet on Morgain 80-40M dipole. Call Dennis, N6KI, 271-6079.

LATEST STRAIGHTEST FROM THE FCC

(Thanks to Bob Gonsett, WA6QQQ)

The FCC has adopted rules to make amateur stations in repeater or auxiliary operation mutually responsible to resolve interference between them, except when one repeater or auxiliary station is coordinated and the other is not. Then, the noncoordinated station has primary responsibility for resolving any interference. These rules become effective 7/12/86.

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

GNU CLUB MEMBERS: Bill Steele, W7EAI, San Diego; Carl Burgess, KB6MQG, Escondido. Matt Grisafe, N6GXT, Leucadia. Welcome. We're glad to have you with us.

RE-NUDE CLUB MEMBERS: Jack Swader, WA6DYV; Bill Bowen, N6FMK; Raul & Yvonne Miller, KA6PSH & KB6AIW; Fred Young, W6UAP; Pat and Ralph Crossman, N6INN & K6HAV.

CHANGE OF CALL SIGN: Mary Buckner, N6NOG (she's a good EGG) from KB6HCH.

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

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

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exams given on the 5th Saturday.

Applicants for examination must send a S.A.S.E., 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.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: the swap meet in the San Diego Stadium parking lot 0700-1100 on the 1st Saturday of the month; the General Dynamics ARC flea mart on the 2nd Saturday starting at 0700 in the General Dynamics parking lot east of Haven on Fourth Ave. in Cucamonga; and the TRW ARC flea mart at the corner of Compton and Aviation Blvd. in Manhattan Beach 0700-1100 on the last Saturday of the month (EXCEPT IN JUNE - ON THE 21ST NOT THE 28TH DUE TO FIELD DAY), talk in on 145.320 mHz simplex.

DONATE IT TO THE CLUB if you can't sell it or aren't up to hauling it to the flea markets. The Club will sell it and put the money in the Equipment Fund to buy that new repeater, antenna, feedline or generator. Contact any club officer who will joyfully help you unload your surplus TS-440, etc.

SURPLUS GOODIES at: HIGHWAY COMPANY in the plain, unmarked white building at 305 W. Wisconsin Ave., Oceanside (see the ad in this issue); Industrial Liquidators, 683 Rancho Santa Fe Rd., San Marcos and 4887 Convoy St., San Diego; Gateway Electronics 4633 Convoy St. Aluminum, brass, copper, stainless steel, etc. at Escondido Sales, 1428 Mission Rd., Escondido.

VOLUNTEER EXAMINERS PROGRAM

de Pat Crossman, N6INN

The May VE test session was our first at the Joslyn Senior Center in San Marcos. Eight examinees tested and six achieved varying degrees of success. Our VE team consisted of W6DEY administering the CW exam; WQ6V, W6TFB, and W6YYV examining; WI6B attending applicants; K6HAV assisting; and KG6VX sifting the paper work at the front desk. Our quarters at the JSC are, on a scale of 1-10, a 15. Our sincere thanks to Doc Burton, KA6DWU, for these facilities.

Incumbent with our first session at JSC, was the SANDARC-VEC hierarchy, there to observe our testing procedure. The test session was followed with a SANDARC-VEC meeting at the Center, attended by all available SANDARC-VEC team leaders and interested persons to discuss the pending ARRL National Convention in San Diego the first week in September. Its concern is the smooth processing and testing of anticipated large groups of applicants. Advanced Class operators (as well as Extra Class) are urged to complete and sign the Application for certification as Volunteer Examiner. A signed copy of your license must accompany the Application, and once approved, SANDARC would like for you to attend a VE test session to prepare and familiarize you with the operation in September.

Convention VE testing will be held in the Regency Ballroom, about 1/4 block from the Town and Country Convention Center. Technician-General written examinations will be administered by approved Advanced Class operators. Four sessions are to be held each day, and each session shall be conducted by three examining teams: Team 1. will give nothing but code tests and issue code certificates. Team 2. comprised of Extra Class examiners only, will give written exams to applicants for Advanced or Extra Class theory tests. Team 3. comprised of Advanced Class licensees, will administer Novice and Tech-General written exams.

The PARC VE Team's "turn in the barrel" will be on Saturday afternoon, September 6th. Naturally, I would like for all of you to apply, be approved by SANDARC-VEC, take in the Convention in the morning, and join us for the testing of applicants in the afternoon. If, however, we are over-staffed for that session SANDARC-VEC may ask for help at another. More VE Convention details as available. Meanwhile, if you hold a current Extra or Advanced Class license, send a copy of it to SANDARC-VEC with the completed Application. Then contact me and I will follow up. I will then ask you to attend our July or August testing session, and qualify to administer exams and certify successful applicants to the FCC. As of this writing, all code tests continue to be given only by Extra Class operators.

ANNUAL PICNIC TO BE HELD IN BRENGLE PARK 24 AUGUST - PLAN NOW

AMATEUR RADIO CLUB AT POTTER JUNIOR HIGH IN FALLBROOK

Phil, WF6L, Band Director, and Bob Bauersfeld, KF6LP, Principal, announce the formation of a ham radio station and club at Potter Junior High.

Thanks to Art, WA6IPD, (who read about the need for gear in the Scope) the station is equipped with a Swan 500CX, phone patch mike, TH33Jr beam and rotor, all donated by Harry Parker, W6ASQ, formerly of Fallbrook. Art donated his time and equipment and put Potter Jr. High on the air. Contacts cover 10 states and two countries in two weeks of demonstration.

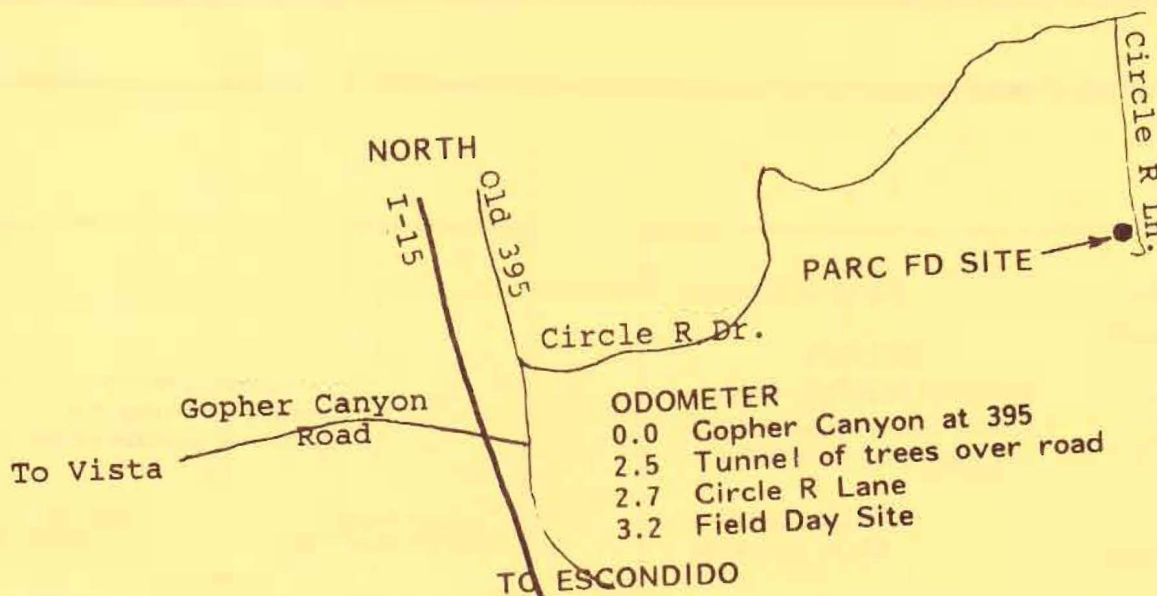
DOWN THE TOOBE

We hear that the May issue of Guideposts Magazine had a nice one page article on Paul Stack, WA6IPF, and his work on the Missionary Net.

Bud, KG6VX, tells us that his XYL Caroline has received her Novice ticket and is now KB6MPZ.

Bob Gonsett's CGC COMMUNICATOR says consumer black & white TV sets, radios and tape players are no longer made in the U.S. according to Industry Week. No Consumer VCRs are assembled here and only two U.S. manufacturers of color TVs remain.....

"That's all," she wrote.



June 86

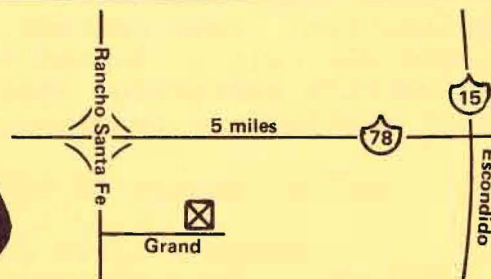


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*-----St. # JAN \$7 + 5.25 Consider paying # don't 2M HT

<- # FEB \$6 + 4.50 this & next yr. # know) 220 HT

*-----City # MAR \$5 + 3.75 or \$17 + 12.75 # 450 HT

<-State# APR \$4 + 3.00 or \$16 + 12.00 # 80-10 Mobile

*-----ZIP # MAY \$3 + 2.25 or \$15 + 11.25 # 2M Mobile

<-Home # JUN \$2 + 1.50 or \$14 + 10.50 # 220 Mobile

Phone# JUL \$1 + .75 or \$13 + 9.75 # 450 Mobile

<-Work ##### ADDRESS ##### Packet

Phone# NEWSLETTER(only) 1YR=\$3.00 # 12VDC Packet

Yes-No PhonesConfidential# (outside of San Diego Co.) #

<-Birth # Associate member has no vote # Motor home

M/D/YR Date # and no license # HouseTrailer

<-year 1st # MAKE CHECKS PAYABLE TO ==>> # Work Trailer

YR Licensed # THE PALOMAR ARC # 4x4 Vehicle

Yes - No <-Donate # P. O. BOX 1603 # Truck

Type = Blood? # VISTA, CA 92083-0530 # Home Eng Pwr

Yes - No <-ARRL # OR BRING TO 1ST WED CLUB MTG # Fire Patrol

*ExpDate Member? ##### CONFIDENTIAL ##### Traffic Nets

<-Type of # This information is not made #

Occupation ##### available to the public ##### SSTV-ATV

Yes - No <-New ##### STATION ##### SSB

Member # Equip designations + antennas # Hand key CW

Program suggestions-->> # 80-10M=> # AMTOR / RTTY

<-Ant # Mail Boxes

6M=> # DX

2M=> # Contests

Rating(5=high to 1=poor) # Antenna Const

Club's Overall Rating # <-Ant # Field Day

Club's Program Rating # 220=> # Interference

Club's Friendliness # 450=> # T-Hunts

Club's Repeaters # Above 450=> # 10M Repeater

Computer equipment=> # 6 M Repeater

2 M Repeater

Code Test 5 WPM # 220 MHz Rept.

Code Test 13 WPM # 450 MHz Rept.

Code Test 20 WPM # Repeater Tech

Code Instructor # Suggestions/comments----->> # TowerClimbing

GivingFCC Tests # SatelliteComm

Elmer Activity # Gateway Comm

Ham Instructor #

Novice Theory #

Tech. Theory #

Advan. Theory #

Extra Theory #

August Picnic

Sports Volunteer Help

Camping Repeater Site Donation Social Events

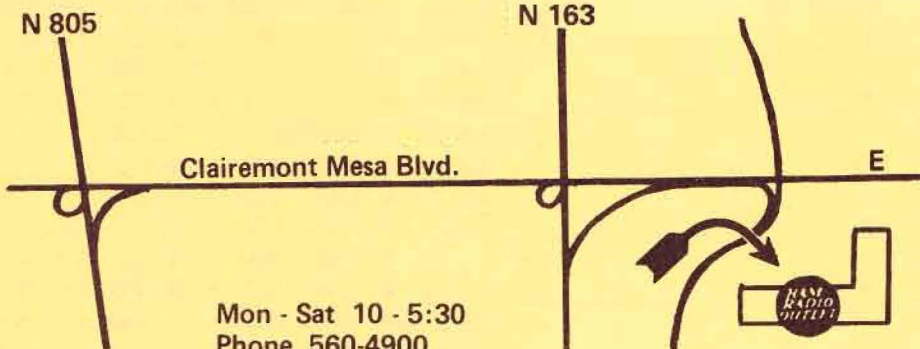
Boating LIST==> Club Meetings

Photography HOBBIES S.D. Swap Meet

Baja Mexico >>--SUPPORT AMATEUR RADIO--<< TRW Swap Meet

Spanish >>--THROUGH CLUB MEMBERSHIP--<< FORM 05-19-84

June 86



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GARY K6CAQ

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ARRL FIELD DAY CONTEST - 1986

The PARC will participate in the 1986 Field Day Contest, operating in Class 4A (four transmitters), using the Club's call sign, W6NWG.

DATE/TIME: The contest starts at 1800 UTC (1100 local) on Saturday, 28 June; ending 24 hours later at 1800 UTC Sunday, 29 June. We will commence setting up no earlier than 1800 UTC on Friday, 27 June.

LOCATION: Our 1986 Field Day site will be that of last year, out Circle R Drive 3.2 miles from the Gopher Canyon off-ramp from I-15 (see map).

FOOD AND DRINK: The Club WILL provide coffee. Food will NOT be a Club responsibility. Provide your own food, drink, and trash containers.

CHIEF OPERATORS (CHOPS): Provide, set up, man (people), and operate their stations per this plan. CHOPS ARE: CW N6IE, 75M/160M K6HAV, 40M WF6L, 20M KZ6X, 15M W9FQN, VHF SSB K6GJD, VHF/UHF FM W6HCD, PACKET KB5MU, RADAR WA7GRW.

POWER: The Club generator and others will be used. CHOPS will provide lines to their operating positions. The Club will pay for oil and gas for generators in use at the Club FD site. Photo-voltaic panels will also be used. Battery operation is desirable for RFI reduction.

RFI: The Club will provide line filters, and some band pass filters for HF stations. HF stations will operate with low pass filters and an antenna tuner.

OPERATING PLAN: The 40M, 20M, All Band CW, Packet & VHF/UHF stations will operate around the clock. The 15M station will operate as the band permits, alternating with the VHF/UHF stations. The 75/160M station will operate at night, alternating with the VHF/UHF stations. The packet station will operate as contacts are available, but will not count as a fifth transmitter. WA7GRW will operate his electronic oven so as not to count as a 5th rig.

SUMMARIZED:

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

OTHER INFORMATION:

a. CHOPS of alternating stations will effect the coordination required prior to putting their stations on the air. (See General Operating Plan, above.)

b. The Club will provide FD Rules, ARRL Dupe Sheets, and log sheets.

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

d. All logs and dupe sheets will be turned in to KG6VX, by July 12.

e. All club members are invited to attend and operate, help set up, log, or just plain spectate. CU there!

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June 86

BYTES 'N PIECES

By Paul Williamson, KB5MU

San Diego packet radio is getting organized. By the time you read this, a new organization will have been formed: SANDPAC, the San Diego Packet Radio Association. For membership information, watch this space or contact me.

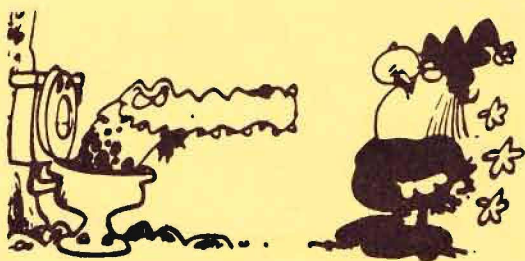
The all-mode controller market is heating up. These boxes can work packet, RTTY, ASCII, AMTOR, and CW. The AEA PK-64 "PAKRATT" was first. Microlog has announced the ART-1. Like the PK-64, the ART-1 is closely tied to the Commodore 64 or 128 computer. AEA has announced the PK-232, which talks RS-232 to any computer while still working all modes. The Catches: Microlog doesn't have the packet option ready for the ART-1, and AEA hasn't announced price or availability on the PK-232.

Automatic message forwarding is coming to the west coast. They've been doing it for a while in the east. The idea is that the packet mailboxes learn how to talk to each other. I can send a message to a distant ham by simply placing it on the local mailbox. The mailboxes will pass the message among themselves until it gets to the mailbox that ham checks into. This is a very powerful way to build a network. It'll be neat when it comes to California. Watch this space.

Many of the files that are available on packet mailboxes show up on the Night Owl BBS at 279-3921. If you have a modem but are still wishing for a packet TNC, call up Night Owl (24 hours, 300/1200).

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W6NWG

Scope

VOL. XXI, NO., 7

1936 - 1986

JULY, 1986

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
 VICE PRESIDENT: Larry de Montegre, WQ6V, Vista 726-0353
 SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
 TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

---FROM THE PRESIDENT---

RENEWAL: Fill out and mail or bring in the PARC renewal blank for '86-'87 in last month's Scope. The club year starts in August, and you won't get the August Scope unless you renew by early July.

REPEATER SITE: We are still checking to see if we can obtain the note at a reasonable price. Members will NOT be assessed to buy the note, so don't use that as an excuse for not re-joining the Club.

SCOPE: Paul Heisman, KA6PPD, has done an excellent job of printing the Scope for the past five years, and has turned out a quality product for the Club at what we suspect has been below cost. Paul, we sincerely thank you for all of the work that you have done for us; and for your contributions of time and material, which have helped to make the Club what it is today. We are going to miss you as our Premier Printer.

INTERFERENCE: K0JPK/R to the north of us has been issued a 90-day test on 146.730. The PARC has been complaining about this repeater since it first intruded into our service area in 1979. TASMA has not been able to force K0JPK/R to return to its original pre-1979 conditions. Now, K0JPK/R is being given a chance to become coordinated at this new location despite the thousands of words of written complaint and engineering data furnished to TASMA. We are being forced to again file all of our previously stated complaints. It appears that K0JPK/R is located in Industrial Hills, transmitting on a high antenna and receiving on antennas located at other locations. This suggests that K0JPK/R is being used as a broadcast station and that it is not able hear all of those to whom it transmits. Our complaint is not that K0JPK/R overlaps into some of our northern service area, but that it intrudes into most of our area including the southern San Diego County area on a daily basis at unquenchable signal strength. K0JPK has been asked to side mount the K0JPK/R antenna or use a directive antenna, reduce height, and reduce power, but he has shown no willingness to reduce the interference into our service area despite repeated requests in writing and at TASMA meetings. The next 90 days will determine whether one of the larger clubs in the USA will have to live with this interference forever.

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, and \$9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530.

July 86

CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the cafeteria at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido Ave, Vista. Talk in on 146.730 MHz. Visitors are welcome.

JULY CLUB MEETING

THE PROGRAM FOR THE EVENING WILL BE a social get together. Phil Leonelli, WF6L, will demonstrate his MIDI electronic one-man-band and provide some music for us during the social time. Come on out and make up for all of those eyeball QSOs you haven't had time for.

SHOW AND TELL will feature WF6L's MIDI (Musical Instrument Digital Interface) computer controlled synthesizers.

COFFEE AND THE USUAL NO-CAL GOODIES by Vina IF SOME OF US REMEMBER THAT THERE WON'T BE ANY TASTIES IF WE DON'T BRING THEM!!! Vina says thanks to all those who have helped; and that she still needs folks to sign up to help her in the coming months. Call Vina at 726-0353. - PRETTY PREASE!

JUNE CLUB MEETING

At the June club meeting, we heard a most interesting discussion by Bob Gonsett, WA6QQQ, of doings in the broadcast radio/TV engineering area. He also gave us quick overview of the tests he and N6ELP made of antennae for HTs. His discussion of the ANSI radiation standards (now the national standards) and their application in the broadcast field and their possible future application in the Land Mobile and Amateur Radio Services. The minutes of the previous meeting and the Treasurer's report were read and approved. Various committee reports were also heard. K6HAV announced that the cost of printing and mailing the SCOPE were going up as Paul Heisman, KA6PPD, Vista Printing Service was giving up the printing of the newsletter after five years of donating his time and services to the Club. Field Day plans were discussed. W9FQN announced that the opportunity may present itself to the Club to purchase the trust deed on the Club's repeater site for a reduced price, and asked for expressions of the members' feelings and interest therein. Wonderful no-cal goodies and coffee by Vina and Mary, N0EVV and others. Vina needs help for next month. PRETTY PLEASE!

EXECUTIVE COMMITTEE MEETING

The Executive Committee meets on the second Thursday of the month at 7:30 of the p.m. Club members are welcome to attend and observe. Contact a club officer for the location of the meeting.

At the June which was held at the home of WB6IQS, the Committee voted to purchase, for sale at the ARRL National convention in September, lapel pins in the form of the U.S. Postal Service Amateur Radio stamp.

REPEATER

WB6IQS spent the day on the mountain on June 15th doing earthquake proofing and other chores, while WA6QQQ did repeater measurements from his QTH. John found a problem with the 450 repeater and corrected it, but it is operating at reduced output for the time being.

We are reminded that lengthy, repeater monopolizing QSOs during prime mobile times are not conducive to optimum use of the machines. "Tail ending" does not permit the weak mobile or HT to break into the QSO. A little courtesy goes a long way. Try to remember and comply with the club policy of ignoring the obvious jammers. They WILL go away if you can ignore them. Don't give them the attention they are obviously seeking.

FIELD DAY

The Club will be participating in Field Day just after you receive this issue. We urge all club members to help with Field Day. If you can't come out and participate or spectate, at least give us a call on the even hours on 146.55, or .58. W6NWG will be lurking for you there. On odd hours, W6NWG will be monitoring 223.5 and 446 MHz. Let's help with the contacts - but only if you have not operated and are not going to operate W6NWG during the Field Day Contest.

EXPIRING FCC LICENSES

Licenses expiring In May: In June: NONE. In July: KA6PPD. August: NONE. In September: KE6HI and KA6QFF.

FROM THE ARRL LETTER

Last amateur call sign issued as of May 1: WS6X, KI6FD, N6NOW, KB6MEM.

FORESAIL

(Take a bow, sprit)

ICom IC-211 2M all-mode 10W xcvr. Yaesu FT-680R 6M all-mode 25W xcvr. Call Gerry, N6LYX, 486-3867.

55' guyed, tower, Swan tri-bander, rotor, \$275. John, WA6TAY, 727-3600.

A dead giveaway: Loads of QSTs (some bound), CQs, and Ham Radios (including the 1st issue). Also 100' of 52 ohm hardline with connectors for RG-8U. All must go together as package. FREE! Herb, W6FET, 728-8615. (7)

All Commodore: C-64 computer, 1541 disk drive, DPS-1101 daisy wheel printer. Used less than hour, \$350 for all. Allen, N7AMR, 434-5656. (7)

Collins 75S3 hf rx. Call Jack, W6QP, 724-3341. (7)

Hustler mobile HF antenna complete w/fold-over mast, resonators for 40, 20, 15M, and bumper mount. New, \$80. Call George, W5OI, 723-1046. (5)

Swan SS-200A 200W PEP solid state HF xcvr w/Turner 444 mike and matching PS-20 pwr supply, \$175. Johnson KW Matchbox w/SWR meter, \$125. Call Ralph, K6HAV, 727-5866.

Vic-20, Datasette, USI Pi-1 monitor, Hamtext, and Kantronics Interface. Cushcraft 4-elm 2M beam. Call Dave, WA6HQM, 753-2605. (4)

Drake Twins, TX-4B, R-4B, MS4, spkr pwr supply, Shure 444 mike, all interconnecting cables and manuals, \$250. Call Bill, W6VDA, 466-4234. (6)

ICOM IC-740 xcvr, less than 2 yrs old, intern ps, FM, CW fil., \$575; Kenwood VFO-820, \$65; TAPR TNC-1 checked out w/cabinet, \$145/offer; 572 tubes, new, \$65. Call Duane, AA6EE, 789-3674 evenings. (7)

Tempo S-5 2M HT, \$120; Heathkit Apache TX-1 HF tx, (great for CW) \$50; Gonset 6N2 tx, \$20; scanner, \$40; Realistic DX-150, \$20; Hallicrafter S-38, \$20; Heathkit SB-100 xcvr, \$95; Kenwood TS-520-S, \$300; Atlas 350XL, \$200; test equipment (o'scopes, sig gens, tube testers, etc); and many other hard to find quality items, cheap, cheep. Talk to W9FQN at 749-0276.

WANTED

(A few good men!)

Xtal calibrator for Drake 2B rx. Call Dan, WA6HYB, 433-4445.

W-51 or equivalent tower or mast. Call Ed, N6GZI, 297-7758.

Bearcat 250 or 350 scanner. Call Allen, N7AMR, 434-5656.

A home for the Club's QST collection. Anyone willing to take them and maintain them as a library for the Club. Contact Larry, WQ6V, 726-0353.

200W HF antenna tuner, headset/boom mike. Call Duane, AA6EE, 789-3674.

ICom IC-22A in working condx and/or other xtal contl solid state rig. Instruction sheet on Morgain 80-40M dipole. Call Dennis, N6KI, 271-6079.

July 86

LATEST STRAIGHTEST FROM THE FCC

(Thanks to June Butler)

The FCC Field Office has moved from La Mesa to San Diego. Phone numbers remain the same, only the address has been changed to protect the innocent. It is now 4542 Ruffner, #370, San Diego, CA 92111-2216. Phones are still 293-5478 and 293-5460 (Information recording).

THANKS TO BOB BELL, N6YX

Bob, N6YX, donated a whole bunch of fine gear to the Club, including Heathkit transceivers, a wattmeter/swr bridge, pre-amp, Vic-20 and many accessories, Commodore printer, CB transceiver, and much more. Thanks, Bob, for the generous donation, and thanks Felix, N6IE, for delivering it.

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

LICENSE UP-GRADES: Dee Crumpton, N6ELP, to Advanced Class (belatedly noted). Ron Schaefer, N6MOY, to Extra Class; Carl Burgess, KB6MQG, to Technician; Peter MacKerron, WAIWTF, to General. Congratulations.

GNU CLUB MEMBERS: Bill Heersma, WA6EEZ, Imperial Beach; Brian Comer, KF6C, San Marcos; George Bollman, KI6CX, Fallbrook; Bob Hoover, KA6HZF, Vista; Ron Schaefer, N6MOY, San Diego; Bill Schmidt (anxiously awaiting his ticket), Encinitas; Dick Usted, WD6DJX, San Diego; Fred & Helen Anderson, San Diego; Richard Earl, Poway; George Coates, WB6QFD, San Diego. We're glad to have you with us.

RE-NUDE CLUB MEMBERS: W2AUO, K6AYJ, WI6B, N6BAD, KE6BH, WD6BRX, W6BXJ, KB6DGR, W6DNX, W6DOL, N6DSU, N6DSX, KA6DWV, W6EVL, W6EYP, WD6FWE, K3FWT, W2FWV, W9GNI, KA6GRG, K6HE, KE6HI, WA6HQM, WA6HYB, WA6HYC, W6HZJ, WA6IPD, W6IPQ, W6IRM, NC6J, WA6JPM, WB6JVS, N4KRA, N6KWC, N6LTV, N6LYX, W6MFT, N6MOI, WA6MOS, N6MOU, N6MVZ, N6NAU, N6NHW, WB6ODR, W6OKG, W6OML, K6PP, KA6PPD, KB6QF, KE6QV, WB6R, K2RTQ, W6SAX, WA6SVN, WM6T, W6TCI, W6TET/-WB6OIX, KF6UB, KB6VQ, WB6WGT, K7WLX, K6YGK, N6YX, W6YYV, W4NYU.

CHANGE OF CALL SIGN: Chuck Kimball, WT6H from KD6ZA; Steve McKinney, N6NHW, from KB6ISU.

FCC LICENSE EXAMINATIONS in north county are conducted by PARC examiners, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind the City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month starting at 10:00 a.m. Exams are also given elsewhere in the county on other weekends. Contact SANDARC-VEC at the address below for more info.

Applicants for examination must send a S.A.S.E., 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. Applicants MUST BRING their ORIGINAL LICENSE AND CODE CERTIFICATE (if any) with them.

VOLUNTEER EXAMINERS PROGRAM

On June 14, the PARC VE Team examined six with a success rate of 60%. Congratulations to club members Ron Schaefer, N6MOY, now an Amateur Extra Class operator; and to Carl Burgess, KB6MQG, awaiting his Technician Class license. Our team leader for the day was Paul, KB5MU. At the front desk for the session was Bud, KG6VX. CW exams were conducted by Max, W6DEY, and Felix, N6IE. The examiners were Marsh, W6SAX; Jane, AD6Z; and Earl, W6YYV. K6HAV kept track of the papers.

de Pat Crossman, N6INN

ADS & MATERIAL FOR SCOPE to P.O.Box 73, Vista, CA 92083-0030. Deadline is normally Monday of the week two weeks before the club meeting.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. 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).

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

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 MHz (- 600) at 2000 local to handle formal written traffic. Visitors are welcome. Net Control Stations and Liaison Stations are needed. Apply to net manager WB6HMY.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: the swap meet in the San Diego Stadium parking lot 0700-1100 on the 1st Saturday of the month; the General Dynamics ARC flea mart on the 2nd Saturday starting at 0700 in the General Dynamics parking lot east of Haven on Fourth Ave. in Cucamonga; and the TRW ARC flea mart at the corner of Compton and Aviation Blvd. in Manhattan Beach 0700-1100 on the last Saturday of the month (talk in on 145.320 MHz simplex.)

ANNUAL PICNIC TO BE HELD IN BRENGLE PARK 24 AUGUST - PLAN NOW

Brengle Park is in Vista on Vale Terrace, just across Vista Way from Glendale Fed, about a mile from Vista Way. As in recent years, the picnic will be a pot luck affair with surnames starting with A through L bringing a meat or casserole dish and M through Z bringing salad. Lunch will be at 1200 and the drawing at 1300 or after lunch. The picnic will start at 1000. Prizes have not been announced yet so you'll just have to wait and see. Plan now to come out and win the KWM-380, Globe Chief, or Swan 270.

DOWN THE TOOBE

The Radio Collector's DIRECTORY and Price Guide (vintage broadcast receivers 1921-1941) is available from Order Dept., Ironwood Press, P.O. Box 8464, Scottsdale, AZ 85252 for \$17.95 including shipping.

Clint Call, W6OFT, has had surgery to relieve a chronic back problem. He's recuperating very nicely at home, and, at this time has become ambulatory in a light body cast. He says his back feels much better already. We hope that Clint can get back to work soon. He's the local unauthorized repair facility for those Swan and Atlas rigs that are ailing.

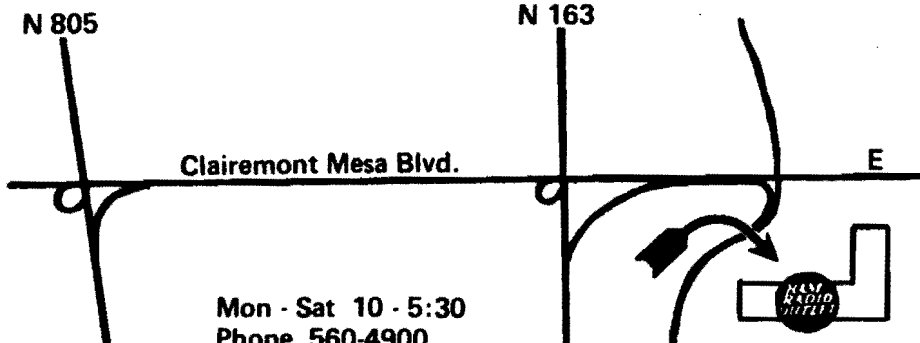
Roy Matros, N6KEU, is recuperating in the hospital after surgery.

Congratulations to new club member Richard Earl, son of N6LYX, who has passed his Novice exam and is awaiting his ticket.

Floyd and Vanessa, W6JSP and WB6BHE, are back in the area after a trip to Utah.

"That's all," she wrote.

July 86



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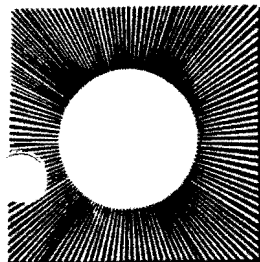
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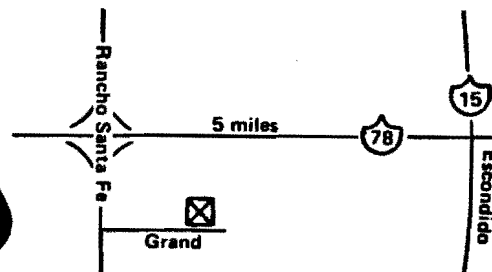
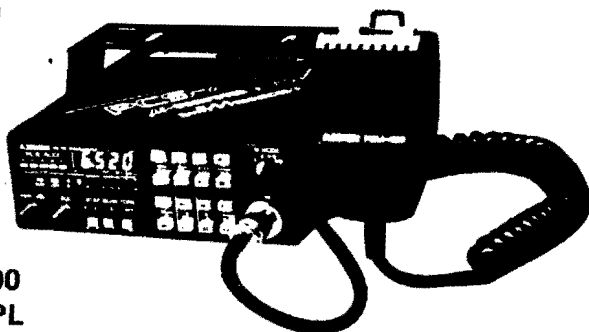
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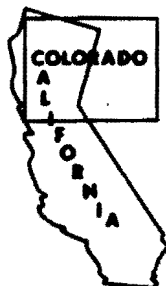
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KB6DNR

July 86

BYTES 'N PIECES

Very soon, perhaps by the time you read this, a "wormhole" will be installed between KA6IQA-1/-2 in San Diego (Torrey Pines area) and WB6RQN-1/-2 in Germantown, Md. The wormhole will be a link between Westnet and Eastnet via commercial satellite link courtesy of M/A-COM. The link is only available during business hours (eastern time), so the wormhole will not be available for real-time QSOs during packet prime time (evenings and weekends). This means that mailbox message forwarding will become the primary mode over the wormhole. Since the east coast is already blanketed with forwarding mailboxes, and the west coast soon will be, you'll be able to send a message to anybody in either network by simply dropping it on your local mailbox. Delivery to the addressee's local mailbox will be within a day in most cases.

To work the wormhole in real-time, you need to understand how it operates. The wormhole looks like a digipeater. If you digipeat packets via KA6IQA-1, they come out on 145.01 just like they always have. If you digipeat via KA6IQA-2, it comes out on the satellite link. So, to go out over the air in Germantown, you would digipeat via KA6IQA-2, WB6RQN-1. WB6RQN-1 comes out on a 220 MHz 1200 baud channel which is part of East net. The satellite link is a full-duplex 9600 bps point-to-point arrangement, so you won't see any retries due to the link.

Check into the voice net (146.73 Tuesdays 9 PM), attend SandPac meetings (second Tuesday, 7 PM, M/A-COM Linkabit cafeteria), or watch this space for the latest news on the wormhole project.

By Paul Williamson, KB5MU

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NORTHERN SAN DIEGO COUNTY



THE PALOMAR AMATEUR RADIO CLUB, INC.

POST OFFICE BOX 1603

VISTA, CALIFORNIA 92083-0530

W6NWX

Scope

VOL. XXI, NO. 8

1936 - 1986

AUGUST, 1986

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
 VICE PRESIDENT: Larry de Montegre, WQ6V, Vista 726-0353
 SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
 TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

---FROM THE PRESIDENT---

PICNIC - Don't forget the picnic and its new location in Vista. We will have the following activities: 1) Direction finding demonstrations, 2) Packet radio, 3) Games for the kids, 4) Good food, 5) Measuring the SWR of mobile antennas, 6) Measuring the power output of transmitters, 7) CW, and 8) Drawing for the picnic prizes after lunch. Bring the family, food, and your HT. There will also be a table for the sale of equipment (limit, 3 items). Be sure to tag your items with your name, call, and price. (See also the picnic item on page 2.)

REPEATER SITE - It looks as if we could purchase the 5% \$16,800 note against our repeater site for about \$9,000. The Executive Committee is looking into the problem and will make a recommendation soon.

INTERFERENCE - K0JPK/R was not allowed a TASMA 90-day test last month since their coverage area as stated by their application was east/west, although I know that to many of you it appears north/south. Our letter to the FCC concerning this interference is being held up for a few weeks until we tie up some loose ends. Possibly, more information will be made available at our August meeting. Please continue to check to see if you can "key up" K0JPK/R. The K0JPK/R carrier should be audible after the W6NWX/R carrier drops.

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, and \$9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530.

CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the cafeteria at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido Ave, Vista. Talk in on 146.730 MHz. Visitors are welcome. *****

AUGUST CLUB MEETING

THE PROGRAM FOR THE EVENING WILL BE presented by Lt. Mike Whalen, KB6MPO, of the San Diego Sheriff's Search and Rescue Detail, who will tell us about his organization and what it does. Mike monitors our repeater in the emergency van, which will be available for a walk through look at the meeting.

PICNIC PRIZE DRAWING TICKETS will be handed out at the meeting. You, or

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your agent, must pick them up and put them in the hopper at the picnic. The Club will NOT do it for you.

COFFEE AND THE USUAL NO-CAL GOODIES by Vina IF SOME OF US REMEMBER THAT THERE WON'T BE ANY TASTIES IF WE DON'T BRING THEM!!! Vina says thanks to all those who have helped; and that she still needs folks to sign up to help her in the coming months. Call Vina at 726-0353.

ANNUAL PICNIC IN BRENGLE PARK ON AUGUST 24

Brengle Park is in Vista about a mile east of Vista Way on Vale Terrace, Vale Terrace is just across Vista Way from Glendale Fed. PARC will be at the east end of the park. As in recent years, the picnic will be a pot luck affair with surnames starting with A through L bringing a meat or casserole dish and M through Z bringing a salad. Lunch will be at 1200 and the drawing at 1300 or after lunch. The picnic will start at 1000. Prizes have not been announced yet so you'll just have to wait and see. Plan now to come out and win the KWM-380, or Globe Chief, as the case may be. Get your tickets for the drawing at the August club meeting or the picnic. You, or your agent, must put your tickets in the hopper.

JULY CLUB MEETING

At the July club meeting, we heard the minutes of the previous meeting; and the Treasurer's and various committee reports. Phil Leonelli, WF6L, gave us a most interesting demonstration of his electronic one-man band. We had a great time socializing to Phil's music. A very nice evening with more than the usual chance to meet and talk to folks. Wonderful no-cal goodies and coffee by Vina and company. Somebody brought some GREAT cake (I hope it was no-cal!!).

EXECUTIVE COMMITTEE MEETING

The Executive Committee meets on the second Thursday of the month at 7:30 of the p.m. Club members are welcome to attend and observe. Contact club officer for the location of the meeting.

At the July meeting W9FQN informed the Committee that the ARRL has designated PARC a Special Service Club, but the correspondence had not yet been received. The Committee voted to spend no more than \$225 for picnic prizes due to the unexpected increase in our liability insurance. The continuing problem of K0JPK/R's interfering intrusion into major portions of our coverage area, and correspondence thereto relating were discussed.

FIELD DAY

We had a dandy time! So did el senor Murphy! The 75M generator quit during the early morning hours and left KA6HZF and his logger, W1LY Coyote, logging by flashlight (thank heavens the rig was battery powered!). 15M was an hour or so late getting under way due to rig problems. The HF packet station never did get things going. N6IE thought for a while that he had a broken wrist (we're glad you're ambidextrous on the keyer, Felix). And unexpected family visitations left some of us out of the fray. But a grand time was had by all. Scores were about like those of last year, but somewhat improved. The beam donated by K6RF and refurbished by KA0RGQ performed per specs for the CW station, and Buck's "mobile tower" - a 50-footer! - did its job. The 40M Delta Loop also did its share (maybe that's what we need for 40 CW next year). The guys on 20M really cranked out the contacts and most of us had a look at their computer logging and how it simplified dupe checking and logging. VHF packet radio worked fine and there was a contact on 10 GHz by WA7GRW, the Amana Kid. Wait'll next year!

EXPIRING FCC LICENSES

Licenses expiring in August: NONE. In September: KE6HI and KA6QFF. In October: K6PZE, WB6PKK. In November: W6OKG.

FROM THE ARRL LETTER

Our own Paul Williamson, KB5MU, is the first president of the newly formed San Diego Packet Radio Association (SANDPAC). Yes, we learned it from the ARRL Letter rather than from Paul.

The ARRL has filed a petition asking for the immediate opening of the 18.068-18.168 MHz band, and suggested a 1500W PEP output limit with CW throughout the band, RTTY up to 18.110, and phone from there to 18.168. It is not known when the FCC will act on this petition. See September QST.

The FCC is proposing licensing fees, but NOT for the Amateur Service.

A brand new software package for the C-64, is now available at the AMSAT Software Exchange, P.O. Box 27, Washington, D.C. 20044. It is called Supertrak 64 and includes a highly detailed map display, ground track path, tracking up to 8 of 14 satellites in the menu and autocall of the QUICKTRAK tabular program.

ARRL is offering a special comic book-type publication to promote amateur radio among the students of junior high school teachers. Interested teachers may contact the club secretary for specifics. Copies are limited.

Last amateur call sign issued as of July 1: WU6O, KI6GS, N6NUF, KB6NFA.

FORESAIL

(Take a bow, sprit)

All Yaesu: FT-480R 2M all mode xcvr. FT-757GX HF xcvr, FP-757HD heavy duty pwr supply, FC-757AT auto. antenna tuner. Mint, never raced, w/orig boxes & manuals. Call Allen, N7AMR, 434-5656.

Drake TR4C, VFO, ps, and mike. Clean. Call Hal, W6DOL, 271-5939.

ICOM IC-211 2M all-mode 10W xcvr. Yaesu FT-680R 6M all-mode 25W xcvr. Call Gerry, N6LYX, 486-3867.

New 135' 75-10M AK75 dipole, \$30; Kenwood R2000 gen. cov. rx w/cw fil., \$425; ICOM 730 xcvr, xltnt condx, \$450; Hammarland HQ-180 gen. cov. rx \$270; Hammarlund HQ-170 ham rx, \$170. Call Tony, K3UKW, (215) 271-8898.

Vic-20, Datasette, asstd software, books, and joystick, \$50. 1-year old GCS International cellular phone "handy talkie" w/charger, \$695 OBO, must sell due to lack of Fallbrook coverage. Call Phil, WF6L, 757-7008.

55' guyed, tower, Swan tri-bander, rotor, \$275. John, WA6TAY, 727-3600. A dead giveaway: Loads of QSTs (some bound), CQs, and Ham Radios (including the 1st issue). Also 100' of 52 ohm hardline with connectors for RG-8U. All must go together as package. FREE! Herb, W6FET, 728-8615. (7)

Collins 75S3 hf rx. Call Jack, W6QP, 724-3341. (7)

Swan SS-200A 200W PEP solid state HF xcvr w/Turner 444 mike and matching PS-20 pwr supply, \$175. Call Ralph, K6HAV, 727-5866.

Drake Twins, TX-4B, R-4B, MS4, spkr pwr supply, Shure 444 mike, all interconnecting cables and manuals, \$250. Call Bill, W6VDA, 466-4234. (6)

ICOM IC-740 xcvr, less than 2 yrs old, intern ps, FM, CW fil., \$575; Kenwood VFO-820, \$65; TAPR TNC-1 checked out w/cabinet, \$145/offer; 572 tubes, new, \$65. Call Duane, AA6EE, 789-3674 evenings. (7)

Tempo S-5 2M HT, \$120; Heathkit Apache TX-1 HF tx, (great for CW) \$50; Gonset 6N2 tx, \$20; scanner, \$40; Realistic DX-150, \$20; Hallicrafter S-38, \$20; Heathkit SB-100 xcvr, \$95; Kenwood TS-520-S, \$250; Atlas 350XL, \$200; test equipment (o'scopes, sig gens, tube testers, etc); and many other hard to find quality items, cheap, cheep. Talk to W9FQN at 749-0276.

Aug 86

WANTED

(A few good men!)

Donation of 9 MHz xtal filter and a small SWL-type rx which covers the ham bands to help in getting mainland Chinese hams on the air. Call Ted, K6RF, 439-8562.

Club members interested in a Saturday, August 23rd 20-mile bicycle ride up and down the coast ending with brunch. If you'd like to go, call Arnie, WA7BIA, 942-1166, now, and start training.

Tube tester in good condx, cheap, no junkie! Xtal calib. for Drake 2B rx. Call Dan, WA6HYB, 433-4445.

Experienced owners with portable VHS video recording equipment are needed to help capture the 1986 ARRL Convention, September 5-7 at the Town and Country Convention Center. Ideas and creativity utilizing your equipment are welcome. Call Jack Carlson, K8WEN, 566-2092.

Heath HX-1681 xmtr (pwr supply unnecessary) and HR-1680 rx. Neither needs to be working. Call Sandy, K6HE, 745-6940. (5)

1930, 31, & 32 RADIO magazines for research and reference. If you won't sell, would you loan them for 2-4 weeks? Call Floyd Paul, W6THU, (818) 242-8961, or drop a line to 1545 Raymond, Glendale, CA 91201. (5)

W-51 or equivalent tower or mast. Call Ed, N6GZI, 297-7758.

200W HF antenna tuner, headset/boom mike. Call Duane, AA6EE, 789-3674.

ICOM IC-22A in working condx and/or other xtal contl solid state rig. Instruction sheet on Morgain 80-40M dipole. Call Dennis, N6KI, 271-6079.

Kenwood HC-10 clock, DM81 GDO. Drake RV-75 VFO. Call Tony, Musero, K3UKW, (215) 271-8898.

LATEST STRAIGHTEST FROM THE FCC .

(Thanks to June Butler)

The FCC has announced a nationwide enforcement program to stop the use and sale of illegal CB amplifiers. The San Diego office, alone, has issued \$6,375 in fines to CB operators and marketers as a part of the program. Users and marketers of amplifiers have been identified via complaints from persons suffering RFI and by reports by REACT members. \$62,000 in fines has been levied nationally in this on-going year-long enforcement effort.

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

LICENSE UP-GRADES: Del Partridge, N6MSC, and Bill Buckner, KA0RGQ, to Extra Class. Congratulations.

GNU CLUB MEMBERS: George Wheelock, KB6HEK, San Diego; Jay Reeves, N6HTF, San Diego; Kerry Banke, N6IZW, La Mesa; Rick Hier, N6MTL, San Diego; Don Benson, KB6MZV, Lakeside; George Coates, WB6QFD, San Diego; Mickey Jenkins, WA6WQI, Oceanside; Jim Retzlaff, KA4ZSM, San Diego. Welcome, we're happy to have you with us.

RE-NUDE CLUB MEMBERS: KB6AI, N6ARS, WB6BHE, W6BHF, WA7BIA, WD6BNX, K6BPT, WA6BSD, N6CKQ, K6CLU, N0CPS, WA1CSO, KA6DWU, N0EVV, N6FGE, W6FQV, W6FTV, N6GRB, WA7GRW, KG6GW, N6GW, W6HC, W6HLB, WA6IPF, KB6IQA, N6LUQ, W6JLW, W6JSP, N6KVY, WA6KZN, N6LEZ, N6LGP, K6LNJ, WB6MEI, N6MMP, N6NAF, N6NAG, W6NFG, N6NQQ, WA6OAR, WB6OCR, WA6OHB, W6OFT, WB6OJL, W6OLQ, W6PEU, KA7PII, KG6QS, K6RF, KM6S, W6SE, WA6SGK, N7TA, WB6TBQ, N6TE, W6TFB, W6THU, W6TXK, W6TZV, WA6UGG, W6UUJ, WB6VYC, WA6VYD, KD6WX, W6YLA, NG6Z.

CHANGE OF CALL SIGN: Ted Nida, N6LUQ from KB6FMT; Brian Hammond, N6NQQ from WA6MXM.

AMATEUR RADIO LICENSING COURSE STARTS IN SEPTEMBER

Ron Earl, W6TXK, will be starting his Novice-Technician-General amateur radio licensing course on September 20. The class will be on Saturdays in Mira Mesa at 9-11 a.m. Pre-registration IS required in order to have all the materials at the first class. Interested? Call Ron at 566-1959.

FCC LICENSE EXAMINATIONS in north county are conducted by PARC examiners, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind the City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month starting at 10:00 a.m. Examinations are also given on the 1st Saturday at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego; on the 3rd Saturday at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego; and on the 4th Saturday at Bostonia Recreation Center, 1049 Bostonia St., El Cajon, and at the North County Blind Activity Center, 250 E. Grand Ave., Escondido. No exams given on the 5th Saturday.

Applicants for examination must send a S.A.S.E., 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. Applicants MUST BRING their ORIGINAL LICENSE AND CODE CERTIFICATE (if any) with them.

VOLUNTEER EXAMINERS PROGRAM

At the July 12th session, The success rate was 75%. Buck, KA0RGQ, passed his Extra Class examination and is now awaiting his license and a new call sign. Congratulations. We hope other club members will take the time and effort to up-grade their licenses.

The CW examination was administered by W6DEY, the Examiners were W6YYV, WQ6V, and WA6HYB. WB6R supervised the written exams, KG6VX manned the front desk and K6HAV looked after the paperwork. Thanks to all.

de Pat Crossman, N6INN

SICK CALL

Jack Forbes, W6QP, suffered a stroke on June 20th, but appears to be recovering nicely. He's home and ambulatory.

Clint Call, W6OFT, is doing nicely since his medicos embedded a load of surplus metal in his spine. Tough way to get you up on the repeater, Clint, but it's nice to have you on as a regular.

Felix, N6IE, likewise has been on the binnacle list for some surgery at the VA Hospital. Understand he's back out and recuperating.

DOWN THE TOOBE

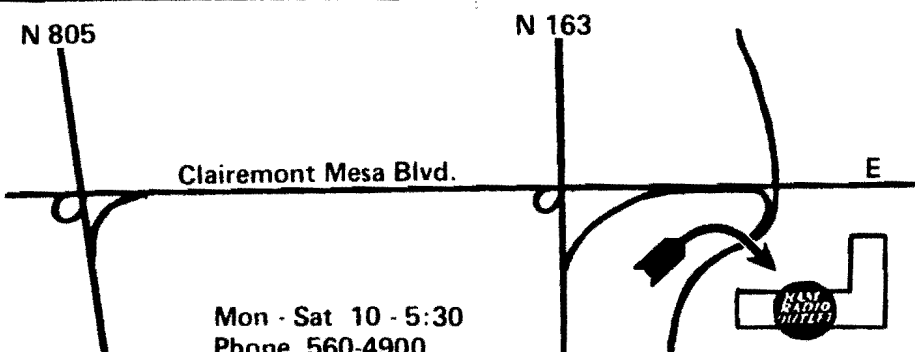
Bill Driml, W6NAT, is threatening us again. Sez he's coming down and put in an appearance at the ARRL National Convention in San Diego the first weekend in September. He says "Hi" to all as he re-gnus his subscription.

We hope that you'll all make note of the item on the amateur radio licensing course put on by Ron, W6TXK, starting in September so that you can pass the word along to prospective new hams.

The Gin't Computer is broken down and Ron, WI6B is going to haul part of mine over to K6ROR's on a mission of mercy. If it works, you'll get your Scope. If it doesn't, you won't, but at least you'll know why you didn't get it!

"That's all", she wrote.

Aug 86



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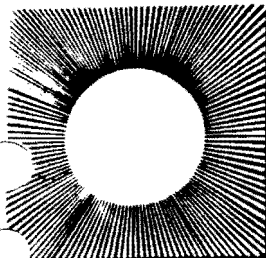
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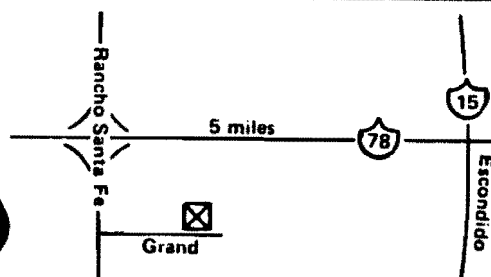
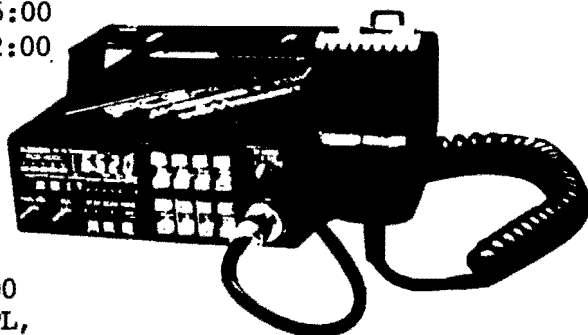


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KB6DNR

Aug 86

BYTES 'N PIECES

By Paul Williamson, KB5MU

W6NWG was at Field Day with Packet. We made 41 contacts. The first one was worth 100 bonus points. There were two problems with VHF packet on Field Day: Too many stations, and not enough stations. There were so many stations that the frequencies were very congested and it took quite some time to make a contact. But there were so few stations that we ran out of stations to work in a couple of hours. Of course, this was all on just two frequencies (145.01 and 145.05); if it had been a conventional mode, there would have been just two QSOs available. But we can't compete with CW or phone for sheer number or rate of contest-style QSOs.

This brings up a point that some packet fanatics seem to ignore: Packet radio isn't always the best mode. Packet is great when you need to transfer quantities of data error free, or when you need to interact with a computer via the radio, or when you need to establish network connectivity among a number of stations. Packet isn't so great when you want to make fast contacts, whether for a contest or for tactical communications in an emergency or public service event. Packet is a poor performer in noisy channels, including most HF channels.

When it is time to consider application of packet in public service, it is important to remember what it is good for. Put packet to work where it is suitable; use other modes when they are suitable. Meanwhile, the "techies" among us will continue to work to improve the capabilities of packet through improved networking and higher speed modulation techniques.

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NORTHERN SAN DIEGO COUNTY

W6NWX
Scope



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POST OFFICE BOX 1603
VISTA, CALIFORNIA 92083-0530

VOL. XXI, NO., 9

1936 - 1986

SEPTEMBER, 1986

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
VICE PRESIDENT: Larry de Montegre, WQ6V, Vista 726-0353
SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

---FROM THE PRESIDENT---

August started the new fiscal year for the Club and there are many projects in which club members may participate if they are so interested:

ALARM SYSTEM - An alarm system is needed for the repeater site.

ANTENNAS - We are looking for new directional antennas for the repeater.

DIRECTION FINDING - Someone is always needed to point the way.

EDUCATIONAL - The Club needs people to teach classes and to construct educational demonstration boards.

GENERATOR - A generator shed is needed at the repeater site for our 3.5 KW unit.

NETS - Someone want to start a net? (Computer, antennas, gab, technical, travel, packet net on packet repeater, Spanish, etc.)

PROGRAMS - Help with the club-meeting program selection.

REPEATER SITE - Finish guying the tower, fire-proof and lightning-proof the site, plant trees and bushes, establish True North, etc.

NEW REPEATERS - 10M, 6M, and giga Hertz bands. Anyone interested in taking these on?

Please let us know if you are interested in helping with these, or any other club projects, by contacting one of the club officers.

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, and \$9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530.

ADS & MATERIAL FOR SCOPE to P.O.Box 73, Vista, CA 92083-0030. Deadline is normally Monday of the week two weeks before the club meeting.

CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the cafeteria at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido in Vista. Parking is available in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. 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.

Sept 86

THREE REPEATERS, all W6NWG/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and output is 449.425 MHz. The third is a packet radio digipeater on 145.050 MHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Repeater control operators are: KB6AI, W9FQN, K6HAV, WA6KZN, KB5MU, K6ROR, WQ6V.

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. Apply to Joe, WB6HMY.

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

SEPTEMBER CLUB MEETING

THE PROGRAM FOR THE EVENING IS A MYSTERY but it may have something to do with some video tapes by Jerry, N6LYX. And then again, it may not.

SHOW AND TELL will feature ??

COFFEE AND THE USUAL NO-CAL GOODIES by Vina and all of us kind enough to bring some of those tasty non-fattening little mouth-watering jewels! Vina says thanks to all those who have helped; and that she still needs folks to help in future months.

SIGN THE ATTENDANCE LOG at all club events. Each attendance is worth one ticket for the drawing held at the Club's annual picnic. No signature, no tickee. No tickee, no washee!

AUGUST CLUB MEETING

At the August club meeting Lt. Mike Whalen, KB6MPO, and other deputies, all members of the Sheriff's Search and Rescue Detail, presented a very interesting talk on their unit and demonstrated their communications/command bus. Minutes and Treasurer's Report were read and approved. Committee reports were also heard. W9FQN and N6INN reported on the Club's commitments in support of the ARRL National Convention. W9FQN reported that the Club HAS MADE an offer to purchase the discounted note on the Club's repeater site property.

TASTIES and coffee were provided by Vina and others, including some delicious cream puffs donated to the Club at no cost by a store in Escondido via WQ6V. See Larry if you'd like to learn more about these truly low-calorie delights.

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the p.m. Club members are welcome to attend and observe.

At the August meeting, which was held at the home of WI6B, the Committee voted to limit winners of picnic prizes to one per person. W9FQN was directed to pursue the purchase of the discounted note on the Club's Mt. Palomar property should the Club's offer to do so be accepted. More delicious low-cal cream puffs were sampled.

REPEATER

John, WB6IQS, went to the mountain to repair the broken 450 mHz repeater receiver. As soon as he opened the cabinet door, the receiver sprang to life. John pulled the entire cabinet down and took it home with him to spend the necessary time locating this intermittent problem. He found the problem and he and Bob, KA6HZF, hauled the reluctant machine back to the mountain and reinstalled it on Sunday, the 17th only to find more problems. And so it sits, waiting for another assault on the mountain. Hope it's done in time for the convention.

BOOTS OLSEN, W6HAW, SILENT KEY

Boots Olsen, W6HAW, a past president of the PARC, and a long-time club member became a silent key on Tuesday, August 19th. Boots had had a series of heart attacks, but was still active and enjoying life when he passed away. He was a top notch CW operator who was very active in the Club and in DXing, having gone on at least one DX-pedition. He was also one of the Club's Volunteer Examiners. He had retired from the insurance business, which he operated in Vista for many years. He was active in the community in many ways. Boots will be missed by all of us who knew him.

EXPIRING FCC LICENSES

Licenses expiring In September: KE6HI, KA6QFF, N6FGE. In October: WB6PKK, WB6RSG. In November: W6OKG. In December: W6FAY, W4NYU, W6PNT, WA6MOS, N6NA.

To be reminded of your license expiration date, it must be in the Gi'nt Computer. 610 forms are available from the FCC and from the Secretary.

FROM THE ARRL LETTER

The FCC will no longer maintain the pools of questions for Amateur Radio examinations. Question pools will, in the near future, be maintained by Volunteer Examiner Coordinators. This is contrary to the ARRL's position which urged the FCC to continue to maintain questions pools to ensure a single, high quality pool of questions for each examination element. The effective date for this transition is to be announced.

Call signs issued through the 1st of August: WW6C, KI6IT, N6OBJ, KB6NST.

FORESAIL

(That's a jib, son - not a marconi, see the onion)

Complete packet station (less the radio). PK-64, C-64, 1541, color monitor, and Star 10C printer. Call Phil, K6ROR, 724-0098.

Drake TR4C, VFO, ps, and mike. Clean. Call Hal, W6DOL, 271-5939.

ICom IC-211 2M all-mode 10W xcvr. Yaesu FT-680R 6M all-mode 25W xcvr. Call Gerry, N6LYX, 486-3867.

Collins 75S-3 hf rx. Call Jack, W6QP, 724-3341. (7)

Turner 444 mike, like new. Johnson KW Matchbox w/swr meter, \$130. Call Ralph, K6HAV, 727-5866. (5)

Drake TX-4B HF tx, RX-4B HF rx, pwr supply, all for \$275. Call Bill, W6VDA, 466-4234. (5)

Tempo S-5 HT, \$120; Heathkit Apache TX-1 HF tx, (great for CW), \$50; Gonset 6N2 tx, \$20; scanner, \$40; Realistic DX-150 rx, \$20; Hallicrafter S-38, \$20; Heathkit SB-100 xcvr, \$95; Kenwood TS-520-S, \$250; Atlas 350XL, \$200; test equipment (o'scopes, sig gens, tube testers, etc); Zenith color V, \$90; and many other hard to find quality items, cheap, cheep. This is club gear or from estates. Talk to W9FQN at 749-0276.

Sept 86

WANTED

(Start houted men!)

ALDA 103 maintenance manual to borrow and copy. Bill, N6COU, 758-7163.
Instruction sheet on Morgain 75-40M dipole. Call Dennis, N6KI, 271-6079.
Some staunch club member to organize and oversee an amateur radio licensing course in the north county area. Call W9FQN.

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

UP-GRADES: Charles Littlefield, N6MOU, to General. Congratulations!

GNU CLUB MEMBERS: Joyce Simek, KA6VMK, Carlsbad; Billy Smith, Jr., KB6MCU, San Diego; Mark Helley, KB6NVN, Escondido; Tim Hoy, KI6GI, La Mesa; Bruce Nichelson, KA3GUP, San Diego; George Cable, N6NUA, Lakeside; Bob Gregory, KB6QH, San Diego. Welcome, we're glad to have you with us.

RE-NUDE CLUB MEMBERS: WA3AAJ, KH6CN, KB6DEM, W6DEY, KE7DR, KB6DSC, WW6E, N6ELP, N6ETH, W6FET, KD6FY, N6GJW, WB6GXR, KB6GYG, N6GZI, W6HAW, WB6HSZ, K6II, W6IUG, KB6JWM, N6JZB, W9KEX, N6NA, N6NOG, WB6OBH, KD6QJ, K6QXW, KS6S, WB6SML, K6TQ, WQ6V, KG6VX, WB6YVT, AD6Z, Vina de Montegre.

GNU/CHANGE OF CALL SIGN: Del Partridge, WV6Z from N6MSC; Bill Buckner, WW6E from KA0RGQ; Bill Schmidt, N6NSU from KB6MCP; Richard Earl, KB6NNV, first call; Mark Helley, KB6NVN, first call.

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

Examinations are also given on the 1st Saturday at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego; on the 3rd Saturday at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego; and on the 4th Saturday at Bostonia Recreation Center, 1049 Bostonia St., El Cajon, and at the North County Blind Activity Center, 250 E. Grand Ave., Escondido.

Applicants for examination must send a S.A.S.E., 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 to the examination. NO "walk-in" examinees will be accepted.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: the ham-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 on 145.320 MHz simplex. On the 2nd Saturday in Cucamonga in the General Dynamics parking lot east of Haven on Fourth Ave, starting at 0700. This one is "Ham Only".

PICNIC - A GRAND TIME WAS HAD BY ALL

Our annual picnic was a fine one with good cooperation from the weather, lots of parking and a good location. The food was TASTY and WB6HMY left his four-legged piranha at home. Prize winners were George, K6YGK; Russ, W6HZS; and Bill, K6GJD, all of whom won gift certificates at WESTCOM; and Buck, WW6E, and Cindy, N6MOI, both of whom won Amateur Radio postage stamps. The Club had its Amateur Radio postage stamp pins on sale with many of us wearing them. It was a fine picnic with approximately 100 people in attendance. The Club thanks Merit Arnold, W6NLO, of WESTCOM for his prompt help in obtaining the gift certificates.

VOLUNTEER EXAMINERS PROGRAM

The August session was our "dry run" for the testing we will be doing at the ARRL National Convention in San Diego on the afternoon of September 6th. It was an excellent experience for us and particularly for our VE Group Leaders. Four of five examinees were successful, and PARC member Charles Littlefield, N6MOU, is congratulated for up-grading to General.

Our examiners were: KG6VX and WA6KZN administration; WI6B, W6DEY, W6TFB, and K6TQ CW exams; W6SAX, WQ6V, KA0RGQ, KD6WZ General-Technician exams; and AD6Z, KS6S, WO6P, WB6R Extra-Advanced exams. Our thanks to all of them.

The SANDARC-VEC organization has received a very good reputation nationwide for the quality of its effort and the results therefrom. We're proud of the job done by the PARC team and its members.

HAM RADIO SUPPORT NEEDED FOR TWO BIG EVENTS ON 13 & 14 SEPTEMBER

The Carlsbad Gran Prix Bicycle Race on Saturday, 13 September and the U.S. Triathlon Series in Solana Beach on Sunday the 14th both present an opportunity for Amateur Radio to show its stuff by providing solid, reliable communications.

The bicycle race needs hams with 2M HTs who will operate in shifts (0730-1200 & 1200-1700).

Bob, WA6QQQ, who is organizing the communications support for these two events, says that the Triathlon requires hams with 2M HTs and others with 220 MHz mobile rigs (a couple of these with 220 HTs also). More help is required for the Triathlon than for the Bicycle Race so lend a hand.

Hams interested in helping provide these public service communications should contact Dee, N6ELP, at 753-5647. Bob and Dee need your support. Year after year they take on the chore of organizing and staffing the communications organizations necessary to support these community events in North County. This is YOUR chance to do your share in these public service communications operations. Sign up now and get the assignment of your choice.

TWO METER RADIO NEEDED FOR ESCONDIDO R.A.C.E.S. AND A.R.E.S.

Albert, N6GNB, says that a 2M transceiver w/power supply is needed to replace the old one-channel rig in the Escondido Police Station. A good 2M rig here could be used for any club event and is an ideal location for a net control station in an emergency. If you have a rig or power supply you would like to donate, contact Al at 741-1840.

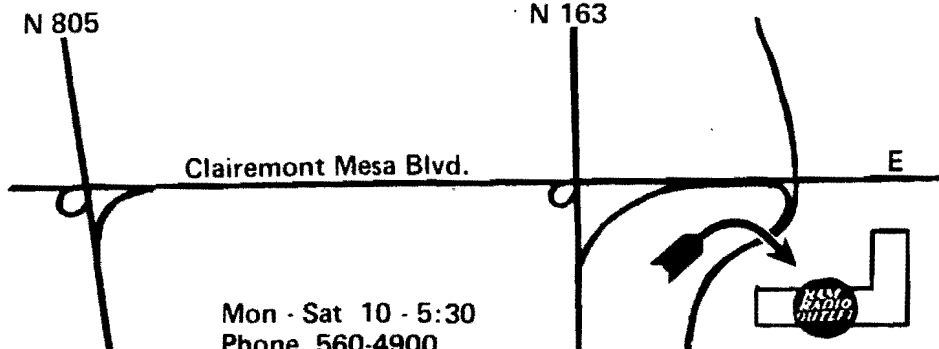
PROBLEMS WITH THE DICK SMITH 450 MHZ TRANSCEIVER KIT

Bob Hoover, KA6HZF, who has tried to assemble the Dick Smith Electronics 450 MHz transceiver kit K-6300, has found that if the manual is followed exactly the radio will not work. He has been in communication with the company, which has withdrawn the kit until the problems have been solved. If you have tried to build this kit, you might want to talk to Bob at 727-5414.

DOWN THE TOOBE

Thanks to Felix, N6IE, for his efforts to help clear up the estate of a recent silent key, W6ABD. Felix alone did the chore of dismantling the station (which was "hard-wired"), and getting the gear to the Club to be sold.

"That's all," she wrote.



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

KENWOOD TW-4000A....DUO-BAND, 450/144 MHZ...\$539.95
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COMMUNICATIONS SPECIALISTS sub-audible units for your FM and HT rigs.
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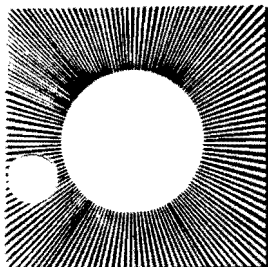
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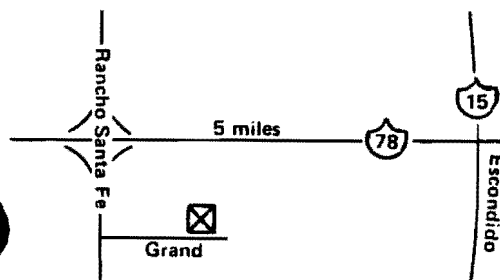
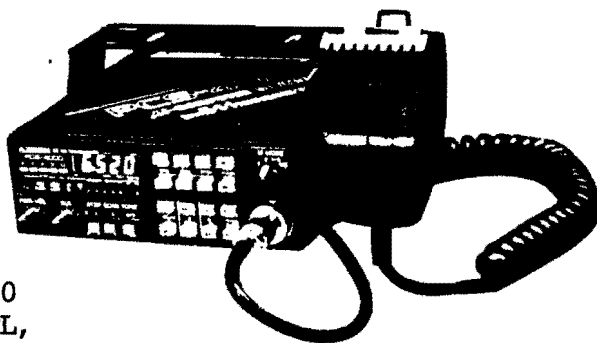


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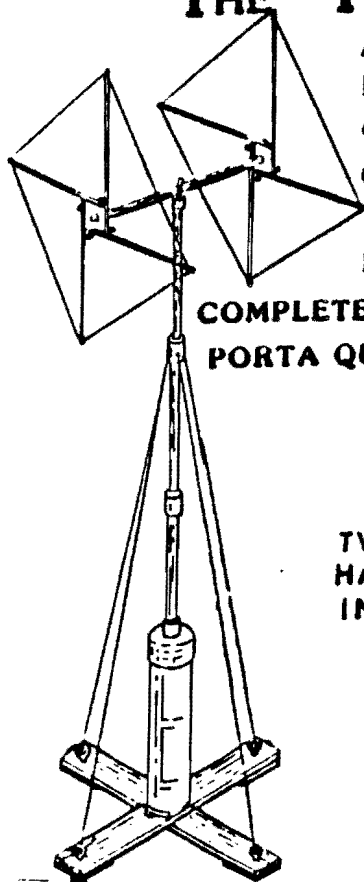
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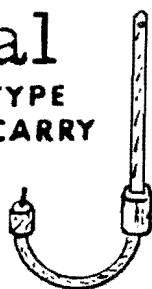
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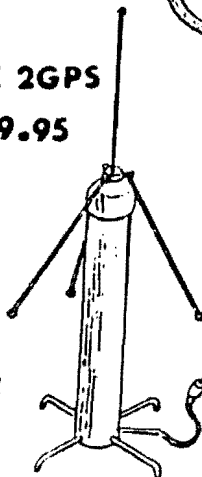
J Vertical

TWO METER $\frac{3}{4}$ λ J-TYPE HANG FROM TREE, CARRY IN POCKET!

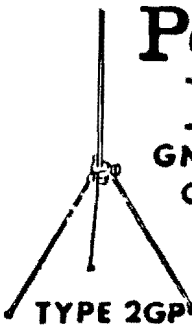
\$26.95



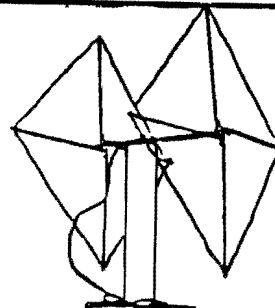
TYPE 2GPS
\$49.95



TYPE 2GP
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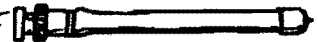
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HANDY-TALKIE ANTENNA GAIN MEASUREMENTS, XMIT MODE (LOW POWER), 146.55 MHz AUGUST 4, 1985 - WAGQQQ & NGELP

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 KUL 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	6E MODUBLOX SP-146 SKY PROBE	43"	3.3	+3.3	+13.7	+10.8	+10.8	+12.1
		7E AEA HOT ROD (RED SHRINK TUBING ON COIL) <small>MODEL HR-1</small>	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) <small>MODEL HR-1</small>	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	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

Sept 86

BYTES 'N PIECES

By Paul Williamson, KB5MU

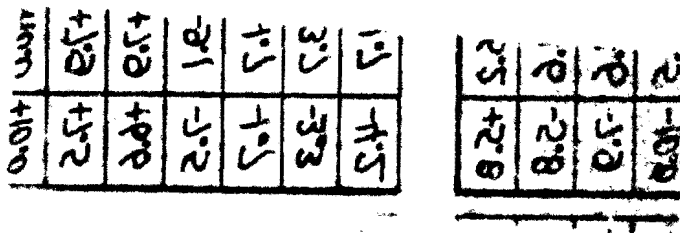
Amateur Radio's newest satellite, JAMSAT-OSCAR 12 (JO-12), formerly JAS- was launched successfully by AMSAT-Japan on August 12. JO-12 carries two transponders, a conventional analog transponder (Mode JA) and a digital packet radio transponder (Mode JD). Both Transponders use a 2-Meter uplink and 70 cm downlink. JO-12 is a low earth orbit satellite (like the older OSCARS), so it has to be tracked with directional antennas as it passes. The analog transponder has already been activated and tested; the digital transponder will be activated later this year. The uplink will use Manchester-coded FM, and the downlink will use BPSK (binary phase shift keying), both 1200 bps.

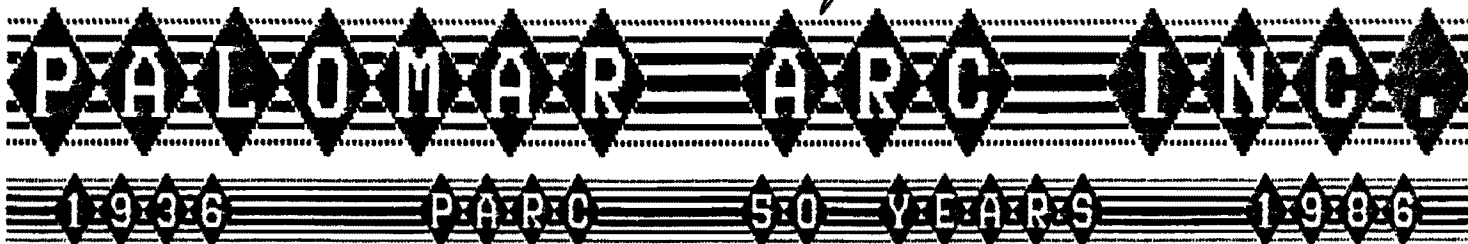
Several modem designs have been published that can be used with your 2-Meter FM transmitter and 70 cm SSB receiver to work mode JD on JO-12. The "JAS-1 Satellite Handbook" was translated from Japanese and contains a modem design (available from AMSAT for a \$10 donation). The August 1986 issue of QEX (the ARRL Experimenter's Exchange) contains a more recent design for the demodulator portion of a modem. TAPR promises to release a modem in some form (a kit?).

The digital package aboard the satellite will function as a mailbox in the sky. A user in San Diego could send a message up to the satellite as it passes overhead, and then the addressee in Japan or Europe could access the satellite as it passes over his head, and pull the message out. By this means messages can be passed all over the world reliably.

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Ph (619)749-0276

August 27, 1986

Dear Club Member :

During the past 3-4 months I have tried to keep the membership advised at club meetings and through the SCOPE as to the possibility of paying off the repeater site \$18,000 note. I am pleased to inform you that we have been notified that the club can obtain the note for \$9,000 which will retire the loan forever and the Club will own the property outright, free and clear of any encumbrances. This would also end our payments of \$119 per month due for the next 17 years. Over the next 17 years we would be paying about \$24,000 of which \$16,000 would be principal and \$8,000 interest. Buying the note now would save the club about \$15,000.

We will need to move rapidly. The Executive Committee has directed me to send you this special letter and we would sincerely appreciate your immediate response. If \$35 were contributed by each Club member, we would have the needed funds. Some members are financially capable of contributing considerably more than that sum while others cannot or may not contribute. Each member should let his or her conscience be his or her guide. Your contribution is not only a contribution to PARC but to Amateur Radio in San Diego County. Contributions will be acknowledged by a plaque to be placed in the repeater blockhouse on Palomar Mountain for posterity.

Please complete the following form and return it as soon as possible.

73's, Stan Rohrer, W9FQN, PARC President

File 1 copy

Stan Rohrer

_____ (name) _____ (callsign)

_____ (name) _____ (callsign)

(address) _____

amount enclosed _____

signature _____

signature _____

(OR)

I am unable to enclose a donation at this time but I will provide you with my donation soon.

_____ (amount)

_____ (approximate date)

_____ (signature)

(OR)

I will not be forwarding a donation and would appreciate no further contact with respect to paying off the Note referred to above.

_____ (signature)

Should the responses to this "passing of the hat" exceed the needed \$9,000 sum, you should let your club know whether :

1. PARC may retain my prorata balance of the amount received in excess of \$9,000 and it shall be credited to the Club's _____ fund (ie, equipment or general fund).

2. I would like to have my prorata share of any amount in excess of \$9,000 returned to me by PARC.

_____ (signature)

If you have questions, please call me(W9FQN 749-0276), Ralph(K6HAV 727-5866) or Ron(WI6B 756-3133).

NORTHERN SAN DIEGO COUNTY

W6NWG

Scope



THE PALOMAR AMATEUR RADIO CLUB, INC.

POST OFFICE BOX 1603
VISTA, CALIFORNIA 92083-0530

VOL. XXI, NO., 10

1936 - 1986

OCTOBER, 1986

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
 VICE PRESIDENT: Larry de Montegre, WQ6V, Vista 726-0353
 SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
 TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

145.0505
 146.73(-)
 449.425(-)

---FROM THE PRESIDENT---

MORTGAGE RETIREMENT: At present approximately 80 members have contributed about \$3,500 toward our goal of retiring the \$9,000 note on our repeater site, with about 30% of our membership responding to our August 29th letter. We thank you for your donations and we hope that the rest of you will return the "donation letter" some time soon, or at the next club meeting, with some type of response. For those of you who did not receive, or have misplaced, the letter sent to you last month, we will run a copy in the Scope soon.

AMATEUR RADIO STAMP PINS: We are out of the red and \$800 into the black with the pins. We thank all of you who sold (and bought) pins for your time and effort (and money). The Club still holds about \$3,000 worth of pins which need to be sold. Since we are now in the black and the \$800 purchase price for the pins has been replaced in the equipment fund, all proceeds on future pin sales will go to pay off the note on the Palomar site, as has the \$800 mentioned above.

REMEMBER, OUR GOAL IS \$9,000. WE HAVE NOW PAID OFF \$4,000 THANKS TO THE DONATIONS AND PIN SALES.

Remember that your donation to the retirement of the repeater site note is strictly voluntary. If you decide to donate, the amount is up to you.

TASMA: We are still waiting for the decision on how far back TASMA is going to "grandfather" the coordination for W6NWG/R. The present date is June '85 despite the PARC presence at the first coordination meeting of TASMA's predecessor organization in September '72.

K0JPK/R: TASMA representatives were recently in the San Diego area and were able to hear clearly our problem with K0JPK/R. We believe that they also can now see why their earlier trips down the coast did not allow them to see the magnitude of the problem. Since K0JPK has not filed timely replies to TASMA directives, PARC is now free to press for a solution of the problem via other channels.

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, and \$9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530.

Oct 86

ADS & MATERIAL FOR SCOPE to P.O.Box 73, Vista, CA 92083-0030. Deadline is normally Monday of the week two weeks before the club meeting.

CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the cafeteria at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido in Vista. Parking is available in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. 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.

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. Apply to Joe, WB6HMY.

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

OCTOBER CLUB MEETING

THE SPEAKER FOR THE EVENING will be Fried Heyn, WA6WZO, our ARRL Southwestern Division Director, who will tell us about the ARRL and what's going on in it. Fried will also have the latest information from the National Convention, about SAREX and about a conversation with the late Dor Wallace, W6AM. It will be a most informative and interesting evening.

SHOW AND TELL will feature a dual-band HT and any other goodies you want to show off (like that new rig YOU bought at the convention), or have just built.

COFFEE AND THE USUAL NO-CAL GOODIES by Vina and all of us kind enough to bring some of those tasty non-fattening little mouth-watering jewels! Vina says thanks to all those who have helped; and that she still needs folks to help in future months.

SIGN THE ATTENDANCE LOG at all club events. Each attendance is worth one ticket for the drawing held at the Club's annual picnic. No signature, no tickee. No tickee, no washee!

SEPTEMBER CLUB MEETING

At the September club meeting we saw a very interesting video tape on ham radio in the space age provided by Gerry, N6LYX. W9FQN reported on the Club's venture in selling the amateur radio commemorative stamp pins at the National ARRL Convention in San Diego. The minutes of the previous meeting and the treasurer's report were read and approved.

Bill, N6NSU, won a prize of \$22 in the drawing, and promptly donated it to the Club's mortgage retirement fund.

TASTIES and coffee were provided by Vina and others and were just delicious and, without a doubt, no-cal - oh yeah!

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the

p.m. Club members are welcome to attend and observe.

At the September meeting, which was held at the home of John, WB6IQS, the Committee discussed the repeater site note retirement fund-raising efforts through donations and the sale of commemorative stamp pins. The problems with the heat buildup in the repeater building and the numb 450 repeater were discussed. The necessity for the use of common sense and common courtesy on the repeater was mentioned, as was the requirement to avoid "doing business" on the air.

REPEATER

The 450 repeater is back on the air with a very sensitive receiver which is being badly de-sensitized so that it appears numb. John, WB6IQS, solved the problem with the intermittent operation of the receiver, and had everything running great on the bench, but apparently the trip to the mountain knocked something out of order. One more time, John.

See DOWN THE TOOBIE for the latest episode in the serial THE SAGA OF THE RADIO SHACK RANDOM REPEATER JAMMER VS. N6ATQ.

EXPIRING FCC LICENSES

Licenses expiring In October: WB6PKK, W6TCI. In November: W6OKG. In December: W6FAY, W4NYU, W6PNT, WA6MOS, N6NA, KA8OUD. In January: NG6Z, N6IE, W6JSP, W2FWV, W9KEX.

To be reminded of your license expiration date, it must be in the Gi'nt Computer. 610 forms are available from the FCC and from the Secretary.

FROM THE ARRL LETTER

Dave Sumner, Executive VP of ARRL said: "The 1986 ARRL National Convention is quite possibly the finest Amateur Radio gathering ever held in the Western US..."

FCC is apparently considering a possible new call sign program, with the issuance of regular call signs handled by the FCC and special call signs bought and paid for from the "civilian sector".

Last call signs issued as of 9/1: WX6E, KI6JY, N6OER, KB6OAK.

FORESAIL

(The halyard, ya say!)

From the estate of Boots Olsen, W6HAW: Azden PCS-4000 2M FM xcvr, \$175; Westcom 2M 15/80W amp, \$100; MFJ 901B Versatuner, \$40; Kenwood TS-930S w/AT, cw filter & SP-930 spkr w/audio filters, \$1200; Tempo S-5 2M HT, \$100; KDK 2015R 2M FM xcvr \$125; Tristao CT840588 5-section 88'guyed crank-up tower w/guy lines, \$800; Hy-Gain HG-54HD 54' crankup free standing tower, \$1200; Hy-Gain TH-7 tri-band antenna, \$400; Astron RS-20A pwr supply, \$65; new Hy-Gain Taitwister ant. rotator, \$300; Telrex 40M329 3-elm 40M beam, \$600; Hy-Gain 5-elm 20M beam, \$250; Hy-Gain Ham IV rotator, \$200. Loads of small stuff: CB xcvs, Miller low pass filter, Palomar Engineers noise bridge, Heath remote coax switch, Siltronix watt/swr meter, Hustler mobile antenna, AEA Isopole, Hustler BTV-5 5-band vertical ant., 300' of 8-conductor rotator cable, Belden RG-213/U and Saxon 8283 RG-8/U foam coax, coax switches, Swan Mobile antenna and more. Call Buck, WW6E, 941-0867.

To be sold in three groups: 1) Commodore 1541 disc drive, 9" BPF scope, pwr supply, 2) Kantronics terminal unit, manuals and cables. Multi 2000 all mode, Yaesu mike, Ringo Ranger ant., manuals, 100' RG8/U. 3) Mosley 3-elm beam, CDE rotor, 95' of 10-wire control cable. Sold in complete groups only. Call Wil, W2FWV, 436-3277.

Drake TR4C, VFO, ps, and mike. Clean. Call Hal, W6DOL, 271-5939.

Oct 86

ICom IC-211 2M all-mode 10W xcvr. Yaesu FT-680R 6M all-mode 25W xcvr. Call Gerry, N6LYX, 486-3867.

Kenwood TS-930S w/AT. Turner 444 mike, like new. Johnson KW Matchbox w/swr meter. Call Ralph, K6HAV, 727-5866.

Tempo S-5 2M HT, \$100; Heathkit Apache TX-1 HF tx, (great for CW), \$40; Gonset 6N2 tx, \$15; scanner, \$40; Hallicrafter S-38, \$20; Heathkit SB-100 xcvr, \$100; Heath HW-2036 2M xcvr, \$100; SWR bridges, \$10-\$20; test equipment (o'scopes, sig gens, tube testers, etc); and many other hard to find quality items parts by the bucketfull, cheap, cheep. Gotta move this stuff out of the Rohrer garage! All club gear. Talk to W9FQN at 749-0276.

WANTED
(Chloe!)

8'-10' pipe fence posts to fence the tower at the repeater site. Call Stan, W9FQN, 749-0276 or on W6NWG/R.

Instruction sheet on Morgain 75-40M dipole. Call Dennis, N6KI, 271-6079. Some staunch club member to organize and oversee an amateur radio licensing course in the north county area. Call W9FQN.

ALDA 103 maintenance manual to borrow and copy. Bill, N6COU, 758-7163.

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

GNU CLUB MEMBERS: Susan Rohrer, KB6NZS, Valley Center; Joe Utschig, N6LWG, San Diego; Merit Arnold, W6NLO, San Marcos (gnu/old member); Ted Dean, KA6IFJ, Oceanside; Carl Burgess, N6NZX, Escondido; Mary Johnson, KB6NZA, Escondido. Welcome, we're glad to have you with us.

RE-NUDE CLUB MEMBERS: WA0ABX, WD6AHX, K7BHI, N6ELP, N6ETH, W6FET, KD6FY, KA6GHE, N6GJW, WA6IWK, WB6NIJ, W6OVP, W6QP, W6VDA, WBOWGU.

GNU/CHANGE OF CALL SIGN: Susan Rohrer is now KB6NZS. Congratulations to Susan on her first ticket.

LATEST STRAIGHTEST FROM THE FCC

(Thanks to June Butler of the San Diego Office)

The FCC has published a very fine new book on RFI and what to do about it. It is for the use of the person who is bothered by RFI and for the technician tackling the problem. It tells what to do at both ends. It should be in every ham library. It is available from the FCC and from the Government Printing Office. See a copy at the club meeting.

We have also received from the San Diego office of the FCC a copy of Docket 86-337, the Notice of Proposed Rule Making and Notice of Inquiry on ATIS, an Automatic Transmitter Identification System for radio transmitting equipment. This will be available at the October club meeting.

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

Examinations are also given on the 1st Saturday at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego; on the 3rd Saturday at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego; and on the 4th Saturday at Bostonia Recreation Center, 1049 Bostonia St., El Cajon, and at the North County Blind Activity Center, 250 E. Grand Ave., Escondido.

Applicants for examination must send a S.A.S.E., a completed, signed NEW Form 610 (PHOTO-COPIES WILL NOT BE ACCEPTED) 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 ob-

tained from the FCC. Applicants MUST BRING their ORIGINAL LICENSE AND CODE CERTIFICATE (if any) with them to the examination. NO "walk-in" examinees will be accepted.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: the ham-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. On the 2nd Saturday in Cucamonga in the General Dynamics parking lot east of Haven on Fourth Ave, starting at 0700.

VOLUNTEER EXAMINERS PROGRAM

At the ARRL National Convention in San Diego on September 4, 5, and 6, 80 applicants were tested by four test teams, with an approximate 51% passing rate. The PARC team tested 23, including a number of "walk-ins".

A decision to participate in the VE program, which entails time; personal expense; vehicle fuel; baby sitter; etc., involves sacrifice. However, my own decision was made to give of my time, energy, etc., after I decided: "Do something for ham radio." If you are now doing something for ham radio, continue to do so. If in the past in your amateur radio career you were guided or inspired by an "Elmer", you cannot now go back in time and reciprocate to him or her. But you can "even the score" by encouraging an upgrade or a ham to be.

Our talents are numerous and varied. Know your proficiency and put it to work. If you feel you don't have a proficiency, which you probably in fact have, then encourage a ham if you have the opportunity. We have so many talented people in our group and we are all different. Backgrounds and life styles vary, but we all seem to pull together for a common cause. Whether it be Animal Rescue, packet radio, Field Day, aid to survivors, ARES, RADOPS, traffic handling, acting as an "Elmer", technical, etc. (and I'm sure I've missed others), if you have benefitted by a "loan" from the amateur radio bank, then why not put something back into it in your own individual way. You have a talent, though different from mine.

This is my way of expressing my thanks to all who assisted in the SANDARC convention testing. And it would have taken nearly this much space to have individually named all of you.

de Pat, N6INN

THREE REPEATERS, all W6NWG/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and output is 449.425 MHz. The third is a packet radio digipeater on 145.050 MHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Repeater control operators are: KB6AI, W9FQN, K6HAV, WA6KZN, KB5MU, K6ROR, WQ6V.

SICK CALL

Fred, W6PNT, reports that Dick West, W6IUG, suffered a heart attack in August, but is recovering nicely. Fred missed Dick on the air and called to see what had happened.

DOWN THE TOOBE

Radio Shack UHF/VHF TV amplifiers have done it again! This is the second or third time we've had severe interference to our 146.130-.730 repeater by one of these little jewels. The September QST has an article describing

very nicely the problem this thing causes when it becomes an oscillator. The Radio Shack mast-mounted amplifier/oscillator seems to work best jamming 146 to 147 MHz, getting into repeaters all across that range. Craig, N6ATQ, is using some kind of special bait to bring these little transmitters out of the woodwork - or at least to find them when they come out from under their rocks. He has been very successful in tracking them down, the most recent one on the day of the club picnic. Thanks Craig. Those things do have a nasty raw A.C. signal that sounds terrible as it keys up the repeater and holds it on until the little bugger drifts on up stream.

Bill, WA0ABX, and Sandy, WB0WGU, were very happy to have the repeater available to them when their 6-8 hour crossing from Catalina to San Diego turned in to a marathon two-day effort when the wind failed and they lost all of their fuel for the auxiliary diesel. N6GNB, N6GWJ, and W6OFT provided them with phone patches and company. I'd rather be sailing.

Bob Hoover, KA6HZF, has turned out a 12VDC conversion for his C-64/PK-64 packet radio station in preparation for the "big one". His entire setup runs on 12V and includes a 1541 disc drive. Bob has written a detailed set of instructions telling how to accomplish this. He has copies available.

The National Convention was a fine one, but I didn't get to take part in any of the sessions due to the VE FCC license tests. I enjoyed the exhibits and the chance to meet and talk to many friends. We already have a very fine PARC test team, but learned a lot from having to handle double and triple the number of applicants, 25% of whom were walk-ins.

As he threatened to do, Bill Driml, W6NAT, past PARC president, showed up at the convention (and later on at my doorstep). He made it all the way down from Ft. Dick without an accident, this time. Good to see you Bill. Sorry you didn't make it in time for the club meeting.

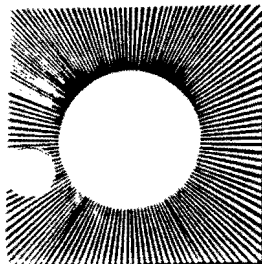
Dennis, N6KI, slipped off and left us in the lurch when he went to EXPO in downtown VE7-land. We finally got ourselves up and out of the lurch only to find that Dennis is now back in town. Waytago Dennis.

Phil, K6ROR, who for the last ten years or so has been running our Scope mailing labels and maintaining our mailing list and club rosters, says he's giving up the job in November. We sorely need someone with a computer to step forward and take his place. Any volunteers? Call Stan, W9FQN, 749-0276. Here's a very real and immediate need and one where the Club desperately needs a hand. Where are you, now that we need you??

"That's all," she wrote.

DONATE IT TO THE CLUB if you can't sell it or aren't up to hauling it to the flea markets. The Club will sell it and put the money in the Equipment Fund to buy that new repeater, antenna, feedline or generator. Contact any club officer and he will gladly rid you of your surplus TS-940S or KWM-380.

SURPLUS GOODIES of the electronic persuasion at HIGHWAY COMPANY in the plain, unmarked white building at 305 W. Wisconsin Ave., Oceanside. See their ad in this issue. Aluminum, brass, copper, stainless steel, etc. at Escondido Sales at 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, nicads at Industrial Liquidators, 683 S. Rancho Santa Fe Rd., San Marcos; and 4887 Convoy St., San Diego, and at Gateway Electronics, 4633 Convoy St.

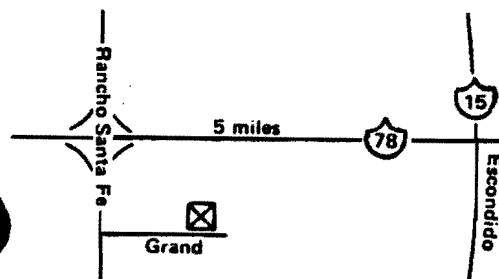
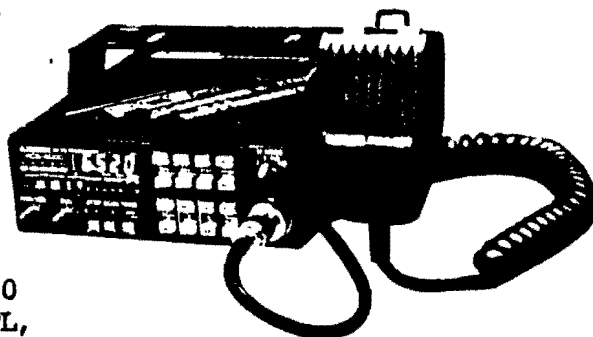


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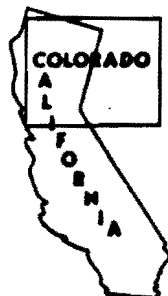
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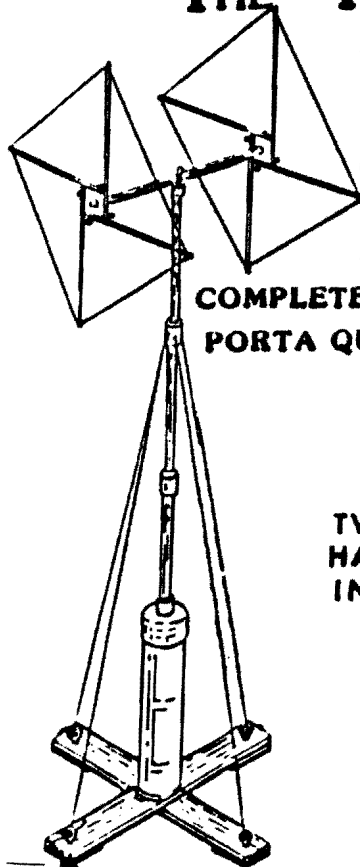
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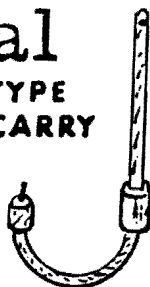
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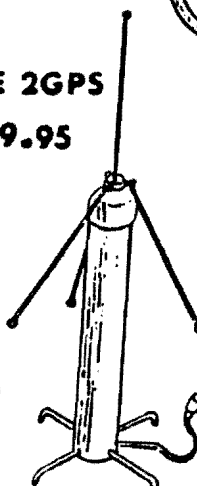
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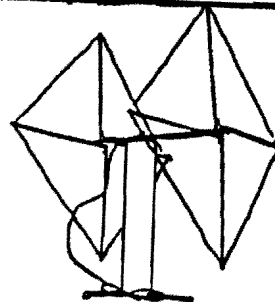


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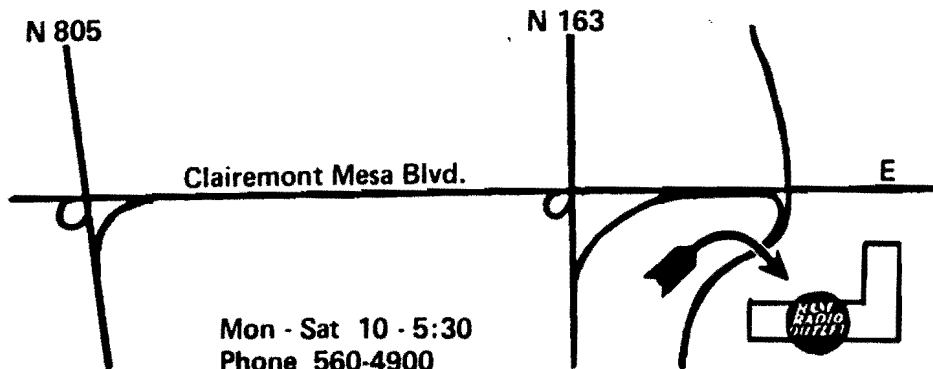
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BYTES 'N PIECES

By Paul Williamson, KB5MU

Packet radio was all over the 1986 ARRL National Convention, held in San Diego in September. There were packet technical sessions, a packet booth on the exhibit floor, a packet station and a packet mailbox in the convention ham station, and, of course, lots of packet gear at the various manufacturer and dealer booths. Packet radio was discussed at the meeting of the Pacific Area Staff of the National Traffic System, where the general conclusion was that packet can make a contribution to NTS if we can get organized.

One of the least-known packet events at the convention was a meeting of SCDCC, the Southern California Digital Communications Council. SCDCC has about a hundred members, of which perhaps thirty were present. SCDCC membership is open to any licensed amateur, and costs \$5 per year. SCDCC's bylaws list four purposes. Paraphrased, these are to (1) Promote rational growth, (2) Discuss regulatory aspects, (3) Present views to others, and (4) Discuss network design issues "that impact the efficient utilization of frequencies" in packet radio. Whether SCDCC should be involved in "coordination" as such is controversial. A slight majority at the organizational meeting (8/10/85) opposed coordination, and wrote it out of the bylaws. A substantial majority at the latest meeting favored coordination, but no action was taken, because of the light attendance. So Southern California still has nobody willing to undertake the (unpleasant) job of trying to coordinate network growth on an official basis. Send me your opinion about this, and then join SCDCC to make your views count.

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W6NWG

Scope

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PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
 VICE PRESIDENT: Larry de Montegre, WQ6V, Vista 726-0353
 SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
 TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

---FROM THE PRESIDENT---

TASMA: At the October club meeting we were pleasantly surprised to receive from TASMA via Fried Heyn, WA6WZO, our ARRL Southwestern Division Director, an updated coordination for W6NWG/R on 146.730 MHz. This corrects an error made in 1972 by TASMA's predecessor, which we have tried to correct for 14 years. We were previously issued a coordination paper by TASMA, but the Old Timers felt the error needed correcting. Thanks to all who dug up old papers and documents in support of our efforts. And MANY THANKS TO TASMA for hearing out our verbal and written arguments. While this 1972 coordination paper really changes nothing in our coordination, it does correct some bad feelings the Club has had toward coordinating bodies, and renews our faith in the present TASMA organization.

NOTE RETIREMENT: We have retired \$6,000 of the \$9,000 repeater site note. For recently joined/re-joined club members, and for those of you who seem to have been unable to find the original mailed to all members, my letter asking for funds to retire the mortgage is reprinted in this issue of SCOPE. We'd like to hear from the other 60% of you.

AMATEUR RADIO STAMP PINS: If we can sell the remaining pins, we will be within \$350 of completely retiring the note. If you can help by selling them to friends or by buying them for use for gifts, it will help to reach our goal. We're almost there. Let's finish it off!

THE K0JPK/R PROBLEM: PLEASE! We need your help with logs and tests on K0JPK/R. We know that some members do not monitor 146.730 because of the strong, grungy signal coming from that repeater. It is ridiculous to have a repeater to the north of us, interested in east-west coverage, transmitting such a strong signal to the south into San Diego County. Many of those attempting to use W6NWG/R are confused as to which machine they are using, and many club members are prevented from monitoring W6NWG/R by the un-squelchable signal from the north.

Please: 1.) Note signal strengths of K0JPK/R and W6NWG/R. 2.) Note power levels and antennas required to key up K0JPK/R. 3.) Record the calls of stations heard on K0JPK/R (difficult to do due to high activity on W6NWG/R). 4.) Note the difference in signal strength between K0JPK/R and other machines on 146.730 (I hear Palmdale, it has the beeper) but can squelch them out and I am unable to key them up as I do K0JPK/R.

Some evening after the traffic net, we will shut down W6NWG/R and encourage San Diego contacts through K0JPK/R. More information at the next club meeting. We have no written word from TASMA as to when K0JPK is going to conduct tests using his new antenna arrangement, but we have received

oral communications to the effect that tests will be made.

CALIFORNIA--THE LAND OF FRUIT AND NUTS: We occasionally have jammers or the repeater. These nuts provide us with the opportunity to test our skills in hunting them down. If you have 2M direction finding equipment, including rotatable beam antennas, please send me your call, phone number, latitude and longitude (to the nearest tenth of a minute). We will try to include it on the next published map. Use the map in this issue as a master and run off 10 copies at your local copy shop. Use different copies to record the different types of recurring interference. Label each vector with time and date. When we get some interesting areas, we will stake them out and start working with local maps. Good luck es 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, and \$9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530.

CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the cafeteria at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido in Vista. Parking is available in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome.

NOVEMBER CLUB MEETING

THE PROGRAM FOR THE EVENING WILL BE: The Annual Auction. Each member may bring 2-3 items tagged with call sign and minimum bid (if any). Don't bring junk! Good stuff only. There will also be a silent auction of small stuff. Here's your chance to get rid of it and get some new stuff!

SHOW AND TELL will feature the new dual-band Yaesu HT WI6B didn't get to show us last time, and any other goodies you want to show off.

COFFEE AND THE USUAL NO-CAL GOODIES by Vina and all of us kind enough to bring some of those tasty non-fattening little mouth-watering jewels! Vina says thanks to all those who have helped; and that she still needs help.

OCTOBER CLUB MEETING

At the October club meeting our guest speaker was Fried Heyn, WA6WZO, ARRL Southwestern Division Director, who presented the Club with a Certificate of Coordination from the Two-meter Spectrum Management Association (TASMA) showing that W6NWG/R has been coordinated on 146.130-146.730 MHz since September, 1972. Fried also brought word from TASMA that K0JPK has replied to TASMA's requirement for a change in antenna to protect the area to the south (San Diego County, etc.) and would be running coordination tests. Club members were asked to identify the repeaters (other than W6NWG/R) heard on 146.730 MHz and to log call signs of stations heard on those repeaters. Fried then presented two excellent video tapes, one "A conversation with Don Wallace, W6AM" and the other Part 2 of "Hams in Space". The minutes of the previous meeting and the treasurer's report were read and approved. W9FQN reported that 40% of the membership had responded to his letter asking for donations to buy the discounted note on the Club's mountaintop repeater site. WI6B reported that the Club had already taken in enough money through donations and the sale of the Amateur Radio Commemorative Stamp pins to pay off \$5,000 on the note; and that if all the remaining pins were to be sold at \$5 each, the note could be paid

in full. The meeting was well attended, and many members had a chance to meet Clint, W6OFT, and Eleanore, WB6OJL. Clint wore his "turtle shell" and was the "belle of the ball". Jack Hanthorn, KI6JM former W6HXE, and a PARC member in the early '60s was present, as was Jack, W6QP, who hasn't been at a meeting since "'02, before the '03 came out".

TASTIES and coffee were provided by Vina and others and were delicious!

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the p.m. Club members are welcome to attend and observe.

It was a dark and rainy night for the October meeting, which was held at the home of WQ6V. The Committee directed the treasurer to disburse \$1,000 toward payment of the Repeater Site Note. The Committee also heard from Burr, WA6VYD, who told of a proposal to put an ATV repeater in the PARC repeater building and of a proposal to join forces with the Fallbrook Repeater Association (a 450 MHz group) in linking our 450 MHz repeater into their system. Burr was appointed chairman of a committee to look into both proposals and to act as liaison with the Fallbrook Repeater Association, of which he is also a member. The Committee decided to hold the Club's 1987 picnic in Brengle Terrace Park on the 4th Sunday in August and directed K6HAV to make the reservation. The demise of the Sunday morning A.R.E.S. net for lack of a net manager and net control stations was discussed. The perpetual problem of K0JPK/R's interference into our coverage area and the necessity for logging the interference was discussed, as was the possibility of a TASMA authorization for a K0JPK/R test for coordination (nothing in writing to that effect has been received from TASMA). The Committee heard from WF6L concerning a letter requesting funds from SANDARC for equipment for the Fallbrook Junior High School Amateur Radio Class.

REPEATER

See the President's message regarding logging K0JPK/R. IF K0JPK/R IS GRANTED COORDINATION FOR 146.730 MHZ, WE WILL BE STUCK WITH THINGS AS THEY ARE AT THE TIME OF COORDINATION! So let's be sure we aren't "locked-in" to a situation where the unsquelchable signal of that repeater is with us forever. We don't want to put K0JPK/R off the air; we just don't want to hear its signals throughout San Diego County!

EXPIRING FCC LICENSES

Licenses expiring In November: W6OKG. In December: W6FAY, W4NYU, W6PNT, WA6MOS, N6NA, KA8OUD. In January: NG6Z, N6IE, W6JSP, W2FWV, W9KEX.

FORESAIL

(The halyard, ya say!)

From the estate of W6HAW: Late model Atlas 210X, \$175; Westcom 2M 15/80W amp, \$100; Kenwood TS-930S w/AT, cw filter & SP-930 spkr w/audio filters, \$1200; Tristao CT840588 5-section 88'guyed crank-up tower w/guy lines, \$800; Hy-Gain TH-7 tri-band antenna, \$400; Astron RS-20A pwr supply, \$65; Telrex 40M329 3-elm 40M beam, \$600; Hy-Gain 5-elm 20M beam, \$250; Loads of small stuff: CB xcvs, Miller low pass filter, Heath remote coax switch, Siltronix watt/swr meter, Hustler mobile antenna, Hustler BTV-5 5-band vertical ant., 300' of 8-conductor rotator cable, Saxon 8283 RG-8/U foam coax, coax switches, Swan Mobile antenna etc. Call Buck; WW6E, 941-0867.

vertical ant., 300' of 8-conductor rotator cable, Saxon 8283 RG-8/U foam coax, coax switches, Swan Mobile antenna etc. Call Buck, WW6E, 941-0867.

Three 4' fiberglass microwave dishes w/pole mount in xlnt condx, \$100 ea. One 5' green fiberglass dish, no mount, \$75 or trade. Call Larry, WQ6V, 726-0353.

1) Commodore 1541 disc drive, 9" BPF scope, pwr supply, 2) Kantronics terminal unit, manuals and cables. Multi 2000 all mode, Yaesu mike, Ringo Ranger ant., manuals, 100' RG8/U. 3) Mosley 3-elm beam, CDE rotor, 95' of 10-wire control cable. Complete groups only. Call Wil, W2FWV, 436-3277.

Complete station: Kenwood TS-520S w/digital display and remote VFO, PC-1 phone patch, MC-50 mike; Heathkit SA-2060A, electronic keyer; Benchner paddle; Autex Research SSB/CW/AM filter QF-1A; Kantronics RTTY/CW interface w/ VIC-20 cartridge; 40-10M vertical; prefab dipole (unopened); and more, \$400. Call Pete, W6OKG, or Alan 728-4106.

Drake TR4C, VFO, ps, and mike. Clean. Call Hal, W6DOL, 271-5939.

Kenwood TS-930S w/AT. Turner 444 mike, like new. Johnson KW Matchbox w/swr meter. Call Ralph, K6HAV, 727-5866.

Yaesu FT-227RA 10W 2M mobile, \$125; S-40B rx, \$40; Heath SA-2040 2KW tuner, \$95; Johnson Matchbox, \$50; Johnson Viking II xmtr, \$45; TAPR packet radio TNC-1, \$120; and other estate items. Call Duane, AA6EE, 789-3674.

Drake TR-4 HF xcvr w/home brew pwr supply; Drake RV-4 remote VFO; Drake MC-4 mobile spkr & watt meter; Drake DC-4 mobile pwr supply; Drake WV-4 watt meter; Dentron 1500 watt universal antenna tuner; Ameco rcvr pre-amp; Home brew 2KW PEP GG linear amp. w/pair of 4-400s and spares and pwr supply; 2-elm Gem quad tri-band antenna; Alliance rotator and control; coax and control cables and all cables and manuals for Drake equipment; Heath monitor scope. Call Bill Welsh, W6TIW, 439-6526.

Tempo S-5 2M HT, \$100; Heathkit Apache TX-1 HF tx, \$40; Gonset 6N2 tx, \$15; Scanner, \$40; Hallicrafter S-38, \$20; Heathkit SB-100 xcvr, \$100; Heath HW-2036 2M xcvr, \$100; SWR bridges, \$10-\$20; test equipment (o's-copes, sig gens, tube testers, etc); and many other hard to find quality items parts by the bucketful, cheap, cheep. Talk to W9FQN at 749-0276.

WANTED

8'-10' pipe fence posts to fence the tower at the repeater site.

ALDA 103 maintenance manual to borrow and copy. Bill, N6COU, 758-7163.

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

GNU CLUB MEMBERS: Alan Toth, WA6HHC, Vista; Bill Rutledge, N6FYJ, Escondido; Walter Coates, WB6NUY, Oceanside; Jim Franklin, KF6QH, Vista; Richard Garren, K6GAK, El Cajon; Jack Hanthorn, KI6JM, Vista; Chuck Dowling Jr., KB6KSQ, San Diego; David and Christine Loar, WA7OWU & N7EQQ, San Diego; J.G. Baston, K6CV, San Diego; and John Kent, NW6W, Carlsbad. Welcome, we're glad to have you with us.

RE-NUDE CLUB MEMBERS: N6FSQ, N6KGK, NU6L, KA6QFF, W6QP, W6WPO.

GNU/CHANGE OF CALL SIGN: Ron, WV6Q from N6MOY.

CORRECTION: We listed Ted Dean, KA6LFJ, with an incorrect call sign.

LATEST STRAIGHTEST FROM THE SAN DIEGO OFFICE OF THE FCC

(At 4542 Ruffner Street, San Diego, CA 92111-2216)

The San Diego office imposed a civil fine of \$750 on Jerry Gastil, K6DYD, an Extra Class operator, of Point Loma, for operating a pirate broadcast station using the unauthorized call sign KIWI, and identifying himself as "Doctor Demento". The Communications Act of 1934 provides for civil fines of up to \$2,000 per day for a total amount not to exceed \$5,000.

If you have RFI problems on your telephone, the FCC Field Operations Bureau has published Bulletin FO-10, Telephone Interference, to help you solve the problem. It is directed at both the telephone owner and the service technician. A copy will be available at the next club meeting.

(Thanks to June Butler, Public Service Specialist, phone 619 293-5478)

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

Examinations are also given on the 1st Saturday at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego; on the 3rd Saturday at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego; and on the 4th Saturday at Bostonia Recreation Center, 1049 Bostonia St., El Cajon, and at a place to be announced in Escondido.

Applicants for examination must send a S.A.S.E., a completed, signed NEW Form 610 (PHOTO-COPIES ARE NOT BE ACCEPTABLE) 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.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. 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.

ADS & MATERIAL FOR SCOPE to P.O.Box 73, Vista, CA 92083-0030. Deadline is normally Monday of the week two weeks before the club meeting.

VOLUNTEER EXAMINERS PROGRAM

Our October session played to mixed reviews. We tested seven and had six failures and three successes. Charles Littlefield, N6MOU, a PARC member, is to be congratulated for up-grading to Advanced.

Our examiner team consisted of W6YYV, WQ6V, and WO6U, examiners; W6DEY administering the CW examinations; WA6KZN handling the reception and processing; and K6HAV as team leader.

We were also visited by Harley Gabrielson, K6DS, the head of the SANDARC-VEC program who had with him a computer program (for the C-64/128) to assist in studying for the written portion of the FCC license examinations which could also be used to administer the examinations. We were impressed after seeing the program run.

de Pat, N6INN

THREE REPEATERS, all W6NWG/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and output is 449.425 MHz. The third is a packet radio digipeater on 145.050 MHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Repeater control operators are: KB6AI, W9FQN, K6HAV, WA6KZN, KB5MU, K6ROR, WQ6V.

THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS IS to IGNORE IT! Don't give the jammer what he or she craves - notice and attention. Carry on your QSO or sign off or move to simplex, but do NOT acknowledge the

crazies. At the same time, try and hear the interfering signal on the input of the repeater and, if possible, determine the direction from which it is coming.

SICK CALL

Nate, K2RTQ, suffered a heart attack and managed to call ou on the repeater for help. Dennis, N6KI, answered the call and called the neighbor Nate wanted called. The neighbor, who knew how to get to Nate's, called 911 and got a Life Flight chopper in to the trailer and got him stabilized until an ambulance could reach him. Nate's home now and back on the air.

Earl, W6YYV, reports that he was swollen up like a poisoned pup with the hives a as result of a reaction to some medication, but managed to recover in time to take part in the October VE test session without frightening the applicants any more than usual.

Dick, W6IUG, is reported to be recovering from the heart attack he suffered last month.

EDITORIAL

We are proud to note that of the members who received the W9FQN letter asking for funds to help buy, at much reduced price, the note on the Club's mountaintop repeater site, better than 40% responded. Granted, not all of that 40+% responded affirmatively to the President's request, but at least they responded. The average donation was nicely over the necessary \$35. A much better response than is normal for this type of fund drive. Of course, hams are not the average, and this is especially true of our club members, who have historically delivered the goods when called on in time of need. Just look at all of the donations of labor and material when it was time to install that beautiful 70' tower on Mount Palomar!

A few more donations and we will have the purchase of the note completed and will have saved the Club something in the neighborhood of \$15,000 in principal and interest. This is money we can much better use over the years to refurbish and add to our equipment; and to improve our emergency capabilities. Let's go ahead with this and get it over with once and for all and end the 30 years of mortgage payments!

DOWN THE TOOBE

Al, N6GNB, thanks Floyd, W6JSP, and Merit, W6NLO, of WESTCOM for their recent donation of a 2M station w/power supply for use in the R.A.C.E.S.-A.R.E.S. station at the Escondido Police Station.

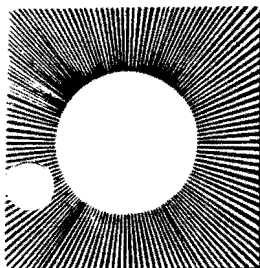
Speaking of W6NLO, it's good see Merit at our club meetings again.

Pat, N6INN, spent several busy days and nights handling El Salvador earthquake traffic. It made me stir my stumps and get the balun back on the big beam; and the amplifier hooked up. Maybe something else will come along to move me into getting an electrician to run the 220VAC line into the shack so that we can get the beeeeg amplifier on

Judy Parmigiani, N6LSO, (previously KA6MLY) a club member in 1981 was also very active in handling the El Salvador traffic and as NCS on the 20M emergency net for the El Salvador traffic

Thanks to Carl Pagel, N6BVU, the Secretary of TASMA, for his contribution of Automobile Club phone numbers for emergency use and for a copy of packet route maps from the SANDPAC newsletter.

"That's all," she wrote.

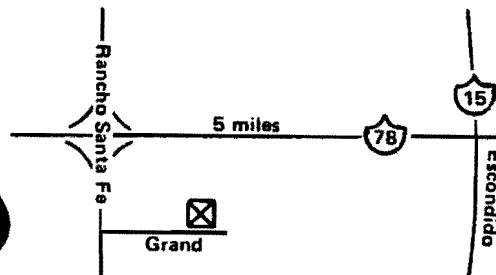
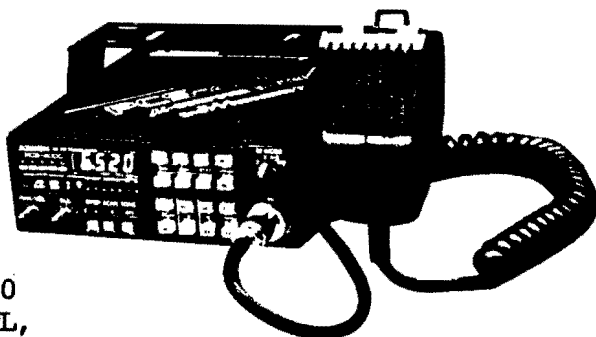


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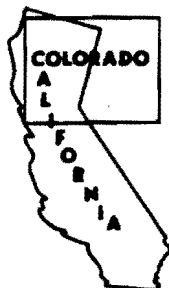
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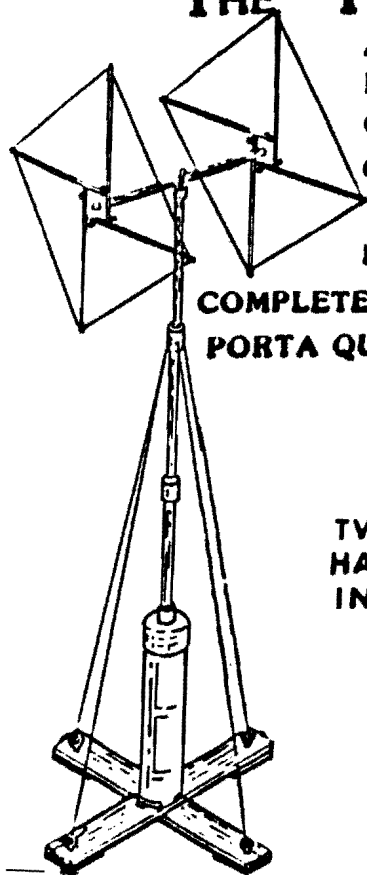
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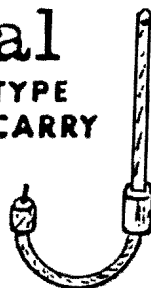


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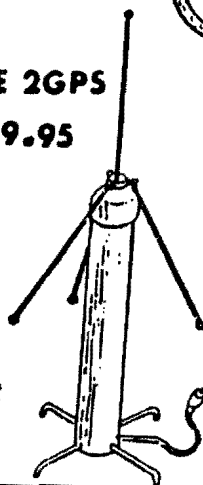
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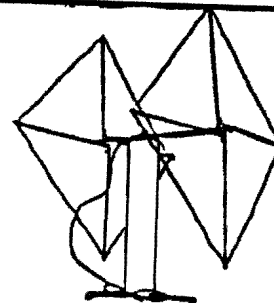
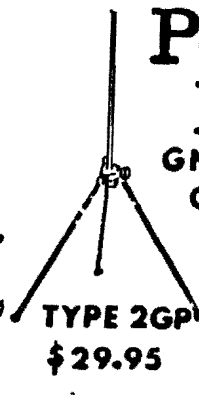


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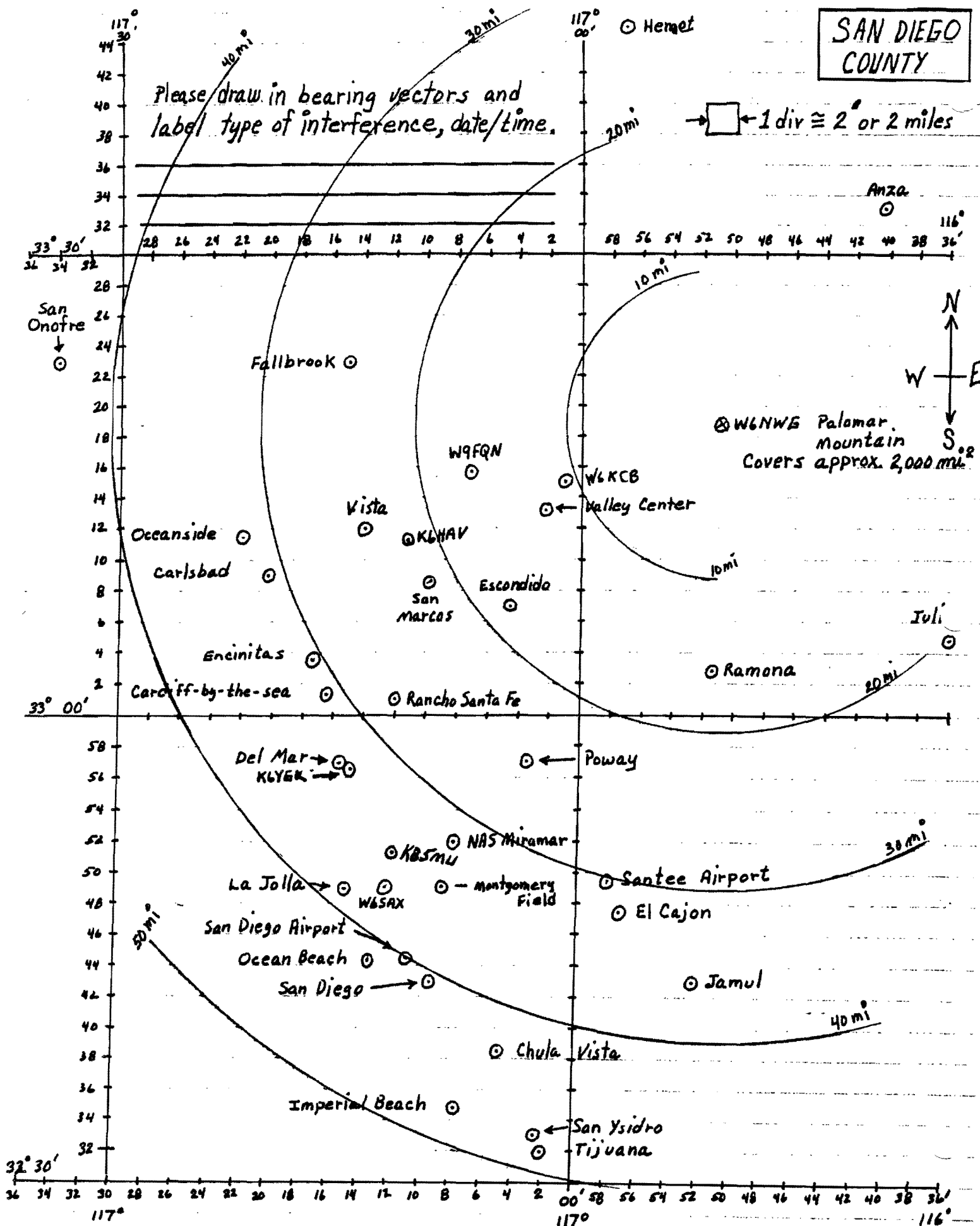
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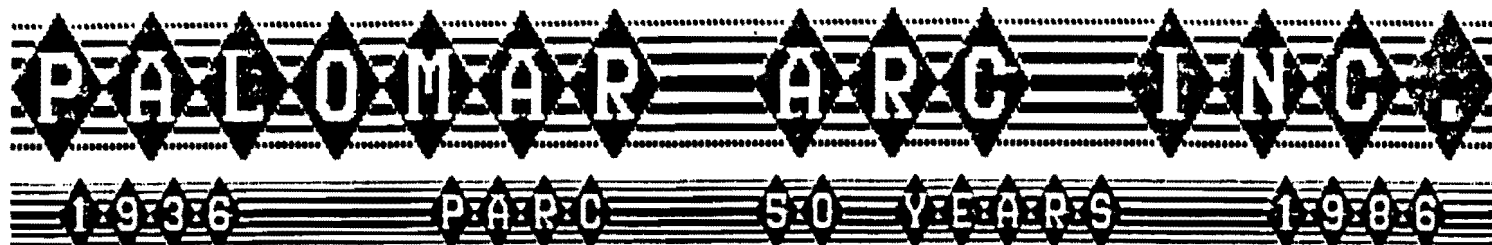
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SAN DIEGO COUNTY

Please draw in bearing vectors and label type of interference, date/time.

→ [] ← 1 div \cong 2" or 2 miles





P.O.Box 1603, Vista, CA 92083-0530

Ph (619)749-0276

August 27, 1986

Dear Club Member :

During the past 3-4 months I have tried to keep the membership advised at club meetings and through the SCOPE as to the possibility of paying off the repeater site \$18,000 note. I am pleased to inform you that we have been notified that the club can obtain the note for \$9,000 which will retire the loan forever and the Club will own the property outright, free and clear of any encumbrances. This would also end our payments of \$119 per month due for the next 17 years. Over the next 17 years we would be paying about \$24,000 of which \$16,000 would be principal and \$8,000 interest. Buying the note now would save the club about \$15,000.

We will need to move rapidly. The Executive Committee has directed me to send you this special letter and we would sincerely appreciate your immediate response. If \$35 were contributed by each Club member, we would have the needed funds. Some members are financially capable of contributing considerably more than that sum while others cannot or may not contribute. Each member should let his or her conscience be his or her guide. Your contribution is not only a contribution to PARC but to Amateur Radio in San Diego County. Contributions will be acknowledged by a plaque to be placed in the repeater blockhouse on Palomar Mountain for posterity.

Please complete the following form and return it as soon as possible.

73's, Stan Rohrer, W9FQN, PARC President

File 1 copy

_____ (name) _____ (callsign)

_____ (name) _____ (callsign)

(address) _____

amount enclosed _____

signature _____

signature _____

(OR)

I am unable to enclose a donation at this time but I will provide you with my donation soon.

_____ (amount)

_____ (approximate date)

_____ (signature)

(OR)

I will not be forwarding a donation and would appreciate no further contact with respect to paying off the Note referred to above.

_____ (signature)

Should the responses to this "passing of the hat" exceed the needed \$9,000 sum, you should let your club know whether :

1. PARC may retain my prorata balance of the amount received in excess of \$9,000 and it shall be credited to the Club's _____ fund (ie, equipment or general fund).

2. I would like to have my prorata share of any amount in excess of \$9,000 returned to me by PARC.

_____ (signature)

If you have questions, please call me(W9FQN 749-0276), Ralph(K6HAV 727-5866) or Ron(WI6B 756-3133).

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. Apply to Joe, WB6HMY.

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

SURPLUS GOODIES of the electronic persuasion at HIGHWAY COMPANY in the plain, unmarked white building at 305 W. Wisconsin Ave., Oceanside. See their ad in this issue. Aluminum, brass, copper, stainless steel, etc. at Escondido Sales at 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, nicads at Industrial Liquidators, 683 S. Rancho Santa Fe Rd., San Marcos; and 4887 Convoy St., San Diego, and at Gateway Electronics, 4633 Convoy St.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: the ham-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. On the 2nd Saturday in Cucamonga in the General Dynamics parking lot east of Haven on Fourth Ave, starting at 0700.

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Nov 86

BYTES 'N PIECES

By Paul Williamson, KB5MU

The FCC has made it legal for amateur radio stations to handle third party traffic under automatic control on frequencies above 50 MHz using AX.25 packet protocol, on a permanent basis. Since March 14, this has been legal under a temporary waiver of the rules. Both the waiver and this permanent ruling were in response to a Petition for Partial Reconsideration of FCC docket 85-105 filed by ARRL. Docket 85-105 made automatic operation legal for digital operations on VHF and above. Until 85-105, unattended digipeaters relied on a tenuous interpretation of the rules permitting automatic control of "repeaters", or required a remote control link.

This ruling is good because it allows us to use the automated network (as it develops) for such things as NTS radiogram traffic. Without the capability to handle third party traffic, the network is little more than a toy for the techies. With the Capability, it can be an important communications tool.

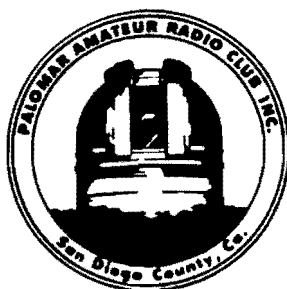
FCC says it is deferring action on HF automatic control "until its feasibility can be determined". This probably means that the pending STA for a few HF BBSs will have to run its course (usually six months) before the FCC considers this subject again. The requirement that AX.25 protocol be used is also rather unfortunate in that it may discourage experimentation with more advanced protocols. Virtually all packet in this country uses AX.25 anyway, so it shouldn't be a practical problem in the short term.

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NORTHERN SAN DIEGO COUNTY

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Scope



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

VOL. XXI, NO., 12

1936 - 1986

DECEMBER, 1986

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
VICE PRESIDENT: Larry de Montegre, WQ6V, Vista 726-0353
SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

---FROM THE PRESIDENT---

ATTENDANCE: Since we have been meeting at Lincoln Middle School, it appears that attendance has dropped off, but that is only because our meeting room is much larger. By November of 1984 we had a total attendance of 608. By 11/85 we had 719, and this year it has climbed to 879. Average attendance per meeting was 57 in '84, 67 in '85, and 80 so far this year. While the large room looks empty compared to our previous meeting room, it is obvious that attendance has not been dropping. Club membership is about 113 above that in '84, and 36 above '85. Being a large club offers many advantages to the membership as well as presenting special problems in the administration of club affairs.

Where do our members come from? Vista, San Diego, Oceanside, Escondido, San Marcos, Fallbrook, Carlsbad, Encinitas, La Jolla, and El Cajon for the top ten areas in the order of greatest attendance. Our club members from Oceanside have the best attendance record.

For the sake of better DFing on 2M, I would appreciate it if any of our members with rotatable directional antennas (beams, Quads) would inform me of their latitude and longitude so that their locations may be plotted on a county-wide RDF map which is being developed.

de Stan, W9FQN

CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the cafeteria at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido in Vista. Parking is available in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome.

DECEMBER CLUB MEETING

THE PROGRAM FOR THE EVENING WILL BE: The Club's annual Christmas party, featuring a Mexican meal with Xmas goodies. Don't eat dinner before the meeting as there will be lots of chow including WQ6V's and Vina's enchiladas, Ranchero Rico Guacamole by W9FQN & KA6FPS, and such other tasties as Vina asks others to bring. Vina will put out the word so we don't get too much of any one good thing.

There will also be computers available to copy public domain software for those who would like it. Available will be the Commodore PET, C-64, TRS-80 III and IV, IBM and Apple. Be sure and bring public domain software and formatted floppies. Packet radio will also be on demonstration for the amazement of all.

Dec 86

Phil Leonelli will again be available to soothe our tired old ear bones with his marvelous electronic music. It really is great listening, so if you missed it last time, hear's (sic) your chance.

SHOW AND TELL will feature any goodies you might want to bring in to show off.

Come in and enjoy a festive evening with lots of opportunity to have that eyeball QSO - and get fat while you have your ears soothed. CU there!

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, and \$9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530.

NOVEMBER CLUB MEETING

At the November club meeting we held our annual auction. It was a very successful evening - everything I brought was sold and the Club made a small but tidy sum from the proceeds.

TASTIES and coffee were provided by Vina and others and were delicious!

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the p.m. Club members are welcome to attend and observe.

At the November meeting, which was held at the home of WQ6V, the Committee decided to: discuss further the coordination of north county public service events; "push" the sale of the commemorative Amateur Radio Stamp Pins; thank Felix, N6IE, for his donation to the Club of some equipment; consider further the elimination of the Club's "membership year" wherein all memberships would expire on July 31st; and take over the operation of the Sunday morning A.R.E.S. net, which seems to have gone "belly up". WI6B reported that the Club needs \$1,000 more to pay off the repeater site note. WB6IQS reported that the 450 MHz repeater is back into normal operation with the IDer and sensitivity restored.

FIELD DAY RESULTS

The latest issue of QST lists the results for the 1986 ARRL Field Day Contest. The PARC finished 21st nationally, 2nd in the state, 2nd in Southern California, and 1st in the San Diego Section in Class 4A, the four transmitter class. We moved from 33rd in the nation in 1985, but did not improve our position in the state and SoCal. Last year we had 1,911 contacts and 5,218 points. This year we had 2,097 contacts and 5,770 points. More CW contacts made for more points without having very many more contacts. Wait'll next year!

EXPIRING FCC LICENSES

Licenses expiring In December: W6FAY, W4NYU, WA6MOS, N6NA, KA8OUD. In some unstated month of 1987: N6GSS. In January: NG6Z, N6IE, W6JSP, W2FWV, W9KEX. In February: WB6WGT, K6CLU.

To be reminded of your license expiration month/year, it must be in the Computer. 610 forms are available from the FCC and, for club members only, from the PARC Secretary.

FORESAIL

(The halyard, ya say!)

Drake TR-7 xcvr w/pwr supply, voice processor, and spkr. All filters and noise blanker installed. \$500. Call Lloyd, W6TFB, 757-9374

Drake R-4 rx, T-4X tx w/pwr supply, all appropriate cables. Will operate all new freqs. Asking \$250. Call Arnie, WA7BIA, 942-1166.

Kenwood TS-520 HF xcvr w/cw filter, manual, factory re-tweaked, make offer. Call Fred, W6UAP, 747-3074.

From the estate of W6HAW: Late model Atlas 210X, \$175; Westcom 2M 15/80W amp, \$100; Kenwood TS-930S w/AT, cw filter & SP-930 spkr w/audio filters, \$1200; Tristao CT840588 5-section 88'guyed crank-up tower w/guy lines, \$800; Hy-Gain TH-7 tri-band antenna, \$400; Astron RS-20A pwr supply, \$65; Telrex 40M329 3-elm 40M beam, \$600; Hy-Gain 5-elm 20M beam, \$250; Loads of small stuff: CB xcvs, Miller low pass filter, Heath remote coax switch, Siltronix watt/swr meter, Hustler mobile antenna, Hustler BTV-5 5-band vertical ant., 300' of 8-conductor rotator cable, Saxon 8283 RG-8/U foam coax, coax switches, Swan Mobile antenna etc. Call Buck, WW6E, 941-0867.

From the estate of Bill Wendell, W6NSF: Azden PCS-2000 2M xcvr \$150; Azden 2M HT, \$150; IC-3PA pwr supply \$35; Weston RS-7A pwr supply \$50; Cesco swr bridge \$10; Larson LM-MM 2M antenna \$35; B & W 550-A coax switch \$10; Ameco Model CN converter & supply \$10; Ringo 2M antenna \$25; and for the collector: Gonset Communicator III (make offer). Call Mel, N6ARS, 433-5310.

Three 4' fiberglass microwave dishes w/pole mount in xlnt condx, \$100 ea. One 5' green fiberglass dish, no mount, \$75 or trade. Call Larry, WQ6V, 726-0353.

Drake TR4C, VFO, pwr supply, and Shure 440SL mike w/all manuals. Clean, \$225. Call Hal, W6DOL, 271-5939.

Realistic Pro-77A VHF police/fire scanner, as new, \$45; 500W dry-type dummy load, \$20; Cantenna dummy load, \$15; 6-position B & W 575 coax switch mounted in box, \$18; new Hi-Q balun, \$10; Hallicrafters SX-111 rx, \$40. Call Duane, AA6EE, 789-3674 (evenings).

Two Collins S-Lines, including 1 32S-3A (WARC band xtals), 1 32S-3, 2 75S-3Cs w/lots of xtals, pwr supplies for both xmtrs, home-brew station control, Hy-Gain 204BAS 4-elm. 20M beam w/stainless steel hardware, Mosely 2-elm. 40M beam, Tristao 354HD 54' self-supporting crankup tower, prop pitch motor antenna rotor w/mast coupling and control unit. Call Otto Miller, W6PT, 727-0086.

1) Commodore 1541 disc drive, 9" BPF scope, pwr supply, 2) Kantronics terminal unit, manuals and cables. Multi 2000 all mode, Yaesu mike, Ringo Ranger ant., manuals, 100' RG8/U. 3) Mosley 3-elm beam, CDE rotor, 95' of 10-wire control cable. Complete groups only. Call Wil, W2FWV, 436-3277.

Complete station: Kenwood TS-520S w/digital display and remote VFO, PC-1 phone patch, MC-50 mike; Heathkit SA-2060A, electronic keyer; Bencher paddle; Autex Research SSB/CW/AM filter QF-1A; Kantronics RTTY/CW interface w/ VIC-20 cartridge; 40-10M vertical; prefab dipole (unopened); and more, \$400. Call Pete, W6OKG, or Alan 728-4106.

Kenwood TS-930S w/AT. Johnson KW Matchbox w/swr meter. Call Ralph, K6HAV, 727-5866.

Drake TR-4 HF xcvr w/home brew pwr supply; Drake RV-4 remote VFO; Drake MC-4 mobile spkr & watt meter; Drake DC-4 mobile pwr supply; Drake WV-4 watt meter; Dentron 1500 watt universal antenna tuner; Ameco rcvr pre-amp; Home brew 2KW PEP GG linear amp. w/pair of 4-400s and spares and pwr

supply; 2-elm Gem quad tri-band antenna; Alliance rotator and control; coax and control cables and all cables and manuals for Drake equipment; Heath monitor scope. Call Bill Welsh, W6TIW, 439-6526.

Tempo S-5 2M HT, \$90. ALL CLUB ITEMS: Heathkit Apache TX-1 HF tx, \$30; Gonset 6N2 tx, \$10; Heath SB-401, HF tx \$??; Hallicrafter S-120, rx \$25; Heathkit SB-100 HF xcvr, \$100; Heath SB-102 HF xcvr, \$125; Drake TR-3 HF xcvr w/A.C. & D.C. pwr supplies, \$125; Heath HW-2036 2M xcvr, \$90; Heathkit GR-78 gen. coverage rx, \$??; SWR bridges, \$10-\$20; test equipment (o'scopes, sig gens, tube testers, etc); and components, and quality items. Parts by the bucketful, cheap, cheep. All Club items. Talk to W9FQN at 749-0276.

WANTED

Pair of 572B tubes, duplexer, 430 & 440 MHz units for Yaesu 726R. Call Ron, WI6B, 756-3133.

ALDA 103 maintenance manual to borrow and copy. Bill, N6COU, 758-7163.

Ham software for Apple IIe; to borrow QEX for 7/86 & 9/86. Call Duane, AA6EE, 789-3674.

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

UP-GRADES: Joe Silveira, WA1CSO, to Advanced; Bill Blackmore, KB6JWM, to Technician. Congratulations.

GNU CLUB MEMBERS: John Kent, NW6W, Carlsbad; Joe & A.J. Ashley, KB6NMK & KB6NMZ; Rod Grant, N6OIQ, San Diego; Red Truax, W6BLK, La Mesa; Leo Wagner, WB6ISV, Vista; Joe Martina (awaiting Novice License), Oceanside. Welcome, we're glad to have you with us.

FROM THE ARRL LETTER

The FCC has decided that it is no longer mandatory to pass a CW element before taking a written test for an Amateur Radio license. "If VEs find it useful and convenient to administer a written element to an applicant who has failed the telegraphy element or to administer written elements before telegraphy elements, they should be able to do so." Credit for successful completion of a written element will be given just as credit for passing a CW element only is now given. Effective December 13.

The FCC has now issued its Memorandum Opinion and Order in PR Docket 85-105, amending the rules to allow packet stations on 6M and above to retransmit 3rd party traffic while under automatic control without the control operator being present.

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

Examinations are also given on the 1st Saturday at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego; on the 3rd Saturday at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego; and on the 4th Saturday at Bostonia Recreation Center, 1049 Bostonia St., El Cajon, and at a place to be announced in Escondido.

Applicants for examination must send a S.A.S.E., a completed, signed Form 610 (PHOTO-COPIES ARE NOT BE ACCEPTABLE) 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.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. 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.

ADS & MATERIAL FOR SCOPE to P.O.Box 73, Vista, CA 92083-0030. Deadline is normally Monday of the week two weeks before the club meeting.

VOLUNTEER EXAMINERS PROGRAM

At the November session, we tested eight applicants, with four successes. Two of the four were: Joe, WA1CSO, attaining Advanced; and Bill, KB6JWM, achieving Technician. Our sincere congratulations to Joe and to Bill. Each of these two hams could tell a special story involving their respective concerted efforts to upgrade.

Our examiner team consisted of W6YYV, W6DEY, NYIE, N6KI, W6TFB, WA6KZN, and K6HAV.

The C-64/128 computer program we had hoped to use for the written portion of the FCC licensing exams (i.e., for Element 3) was not used, and we did the testing the old-fashioned way. We'll try to iron out the bugs and use the computer method of testing for the the written tests after the first of the year.

de Pat, N6INN

THREE REPEATERS, all W6NWG/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and output is 449.425 MHz. The third is a packet radio digipeater on 145.050 MHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Repeater control operators are: KB6AI, W9FQN, K6HAV, WA6KZN, KB5MU, K6ROR, WQ6V.

THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS IS to IGNORE IT! Don't give the jammer what he or she craves - notice and attention. Carry on your QSO or sign off or move to simplex, but do NOT acknowledge the crazies. At the same time, try and hear the interfering signal on the input of the repeater and, if possible, determine the direction from which it is coming.

DONATE IT TO THE CLUB if you can't sell it or aren't up to hauling it to the flea markets. The Club will sell it and put the money in the Equipment Fund to buy that new repeater, antenna, feedline or generator. Contact any club officer and he will gladly rid you of your surplus TS-940S or KWM-380.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: The El Cajon ARC ham-computer-electronics swap meet at the Santee Drive-in theater on Woodside Ave at Hwy 67 in Santee at 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. On the 2nd Saturday in Cucamonga in the General Dynamics parking lot east of Haven on Fourth Ave, starting at 0700.

Dec 86

DOWN THE TOOBE

We're sorry to report that we're going to be losing Joe Silveira, WA1CSO, to New England. Joe's taking his newly earned Advanced Class ticket and running back to whence he came. Sez he hopes to return though. We hope so too, Joe. We'll miss you.

Thanks to Otto Miller, W6PT, for his donation to the Club of a Heathkit transceiver and transmitter. Due to health reasons, Otto is tearing down his station and moving to smaller quarters.

Slowly but surely we are achieving our goal of paying off the note on the club property on Mount Palomar. Responses from the additional members (and one non-member XYL) are greatly appreciated. With just a few more responses we ARE going to make the grade! Keep 'em coming.

Thanks to Phil Schutze, K6ROR, for the 10-12 years he's been doing the club roster, Scope mailing list, mailing labels, etc. Phil says he's done the job long enough and wants to give some of the younger folks a chance. We do appreciate Phil's long association with the Scope; and all he's contributed to getting it "on the street". He also served a short hitch as editor, but health problems made him give it up (I told him if he wanted to STAY healthy, he'd let me do it - and he did!) Anyway, thanks, Pheel.

Speaking of younger folks doing the job, George Maynard, K6RTD, has taken over from Phil in the rosters and labels department. Please examine this month's mailing label to see if the information is correct. George had to type ALL of the information into his computer since Phil's DEC and George's Radio Shack models were not compatible, so please look it over closely and let us know if you have any corrections, etc. George can be reached via the repeater or at 727-2374. On the new labels you'll find your ham license expiration month/year (if you've provided it to the Club) and your club membership expiration date (PRC).

Thanks to N6IE for his recent donation of equipment to the Club. It sure sold well, even the Heathkit TV game stuff. Thanks, Felix.

Note that the El Cajon ARC's swap meet will no longer be held in the stadium parking lot. See item preceeding DOWN THE TOOBE.

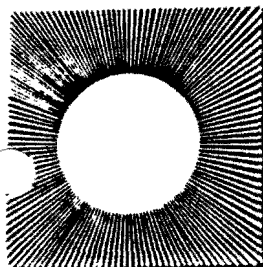
This is the last month that John Tentor, W6OLQ, will make the 50th Anniversary commemorative badges

"That's all," she wrote.

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. Apply to Joe, WB6HMY.

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

THE SAN DIEGO COUNTY MICROWAVE NET meets on 146.730 mHz each Monday at 2100. This net is to disseminate microwave information and is open to the old timer and the begining microwaver. All are welcome. Kerry, N6IZW, is net control station.

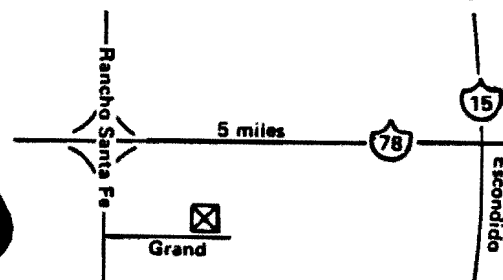
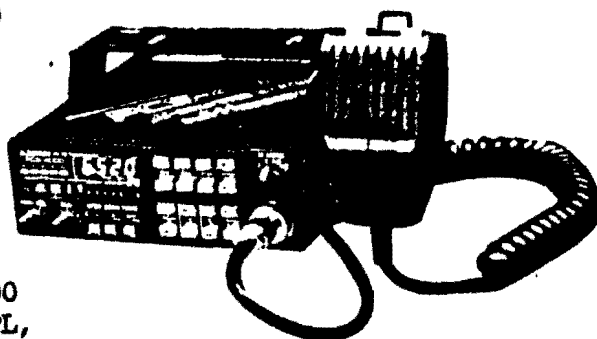


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This is an unofficial announcement of Commission action. Release of the full text of a Commission order constitutes official action. See MCI v FCC, 515 F 2d 385 (D.C. Cir. 1975)

Report DC-690

ACTION IN DOCKET CASE

November 7, 1986

**FCC UPHOLDS REVIEW BOARD DECISION IN EL CAJON, CALIF.,
AMATEUR RADIO PROCEEDING
(PR DOCKETS 84-774-775)**

The Commission has upheld a Review Board decision revoking James W. Smith's license for station W6VCE in the Amateur Radio Service and suspending his Amateur advanced class operator license.

The Review Board had concluded that Smith, without identifying his station, had transmitted music over his station. It noted he willfully and maliciously caused interference to other amateur operators.

Action by the Commission October 21, 1986, by Order (FCC 86-507).
Commissioners Fowler (Chairman), Quello, Dawson, Patrick and Dennis

-FCC-



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BYTES 'N PIECES

By Paul Williamson, KB5MU

The new Japanese Amateur satellite, FUJI-OSCAR 12 (formerly JAS-1), has begun transmitting digital beacon data. This is the first step on the way to activating the full packet radio transponder on the satellite. It will be a mailbox in the sky, with the capability to receive messages and store them for later retrieval. To use this exciting new satellite mode, you need to have a Mode J (145 MHz up, 435 MHz down) satellite station plus a special modem connected to your packet radio TNC. The special modem is currently available from a group in the UK, and TAPR has another modem design in prototype. The prototype modem at W3IWI has already been used with excellent success to copy over a hundred kilobytes of beacon data in a single pass of the satellite. Both modems can track frequency automatically by connecting to the up/down buttons on your receiver.

Even if a satellite station is beyond your means or ambition presently, you may still be able to take advantage of this new development in Amateur Radio. Several local stations are developing FO-12 capability; one or more of them may provide gateway service to the local network. You could leave messages on a local mailbox, and they would automatically be relayed through the satellite to another gateway station elsewhere in the world, and thence to the destination. The details of exactly how to handle this have yet to be worked out, but it does promise enhanced long-distance communications that do not relay on the fickle sunspots.

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