



CROSSTALK

News Bulletin of the TRW Amateur Radio Club

Member, American Radio Relay League

MAY 1984

**** FD'71 ** FD'73 ** FD'75 ** FD'76 ** WAS ** WAC ****

Garrett/W6TRW Repeater: 145.32/- .600(2A-PL) -- UHF: 442.000in/447.000out

CALENDAR FOR MAY AND JUNE

May 26, 8-11 am	Swapmeet
May 29, Noon	Club Meeting, R4-1041. Guest speaker will be Harold Price, AK6K, who will demonstrate and discuss Packet Radio communications. See meeting notes below for more information.
June 12, after work	Executive Board Meeting—all members are welcome!
June 13, noon	Picnic at El Nido Park. Food and refreshments are free to members.
June 23, 24	Field Day!!!
June 26, noon	Club Meeting, R4/1041
June 30, 8-11am	Swapmeet

SANTA MARIA HAMCON

The Southwestern Division ARRL Convention is being held October 12 - 14, 1984 at the Santa Maria Fairgrounds! Now is the time to start making your plans! There will be free parking city-wide. R.V. spaces will also be available. There's plenty to do for you and the XYL too! Wineries, beaches, dunes, Solvang Danish community, restaurants, tours, swap tables, etc. For early sign-up notification send an "sase" to:

Registration Department

Hamcon

P. O. Box 2457

Orcutt Station, CA. 93455

Please include your name, call, address, and don't forget the ZIP Code!

SEE YOU THERE

Hughes ARC Auction

We apologize to those of you who showed up last month but the change of date got to us after the Crosstalk went to the printer. Here are the details:

Saturday, May 26, 1984 - Noon to 5 PM

**** Right after the TRW/ARC Swapmeet! ****

Hughes El Segundo Employees Assoc. Building
1216 E. Imperial Hwy. El Segundo

Located just south of LAX, 1/4 mile west of Sepulveda Blvd.

Talk in: KA6N Repeater (Palos Verdes)

223.0 In 224.6 Out

146.52 Simplex

Rule sheets will be available at the door. Checks OK for purchases over \$50 with Drivers License and a check guarantee card.



GENERAL MEETING 24 APRIL 1984

John Keller, N6JLS

Twenty two members attended. President Walt Pearson called the meeting to order. Secretary John Keller accepted the 27 Mar 1984 General Meeting minutes as printed in the Crosstalk. Treasurer Paul Herbert gave a quick rundown on the budget agreed upon at the last Executive Board Meeting and stated that the treasury is in good shape and right on budget predictions. Vice-President Chris Wachs stated that the Hughes ARC auction had been postponed. Original date had been after the April TRW/ARC Swapmeet. New date is after the May Swapmeet (Sat. 26 May). The ARRL video tape "Amateur Radio's Newest Frontier" was shown. The tape covers the activities of the flight of STS-9 and Owen Garriott, W5LFL. It is a excellent tape showing some of the efforts before the flight, contacts made during the flight, and some of the Amateur Radio activities connected with the flight but not directly related to communicating with Owen. While the latecomers bought additional door prize tickets, Paul Herbert related the activities of the previous weekend when the 2 Meter repeater antenna was replaced. The new antenna seems to be performing very well with better coverage to all points of the compass. No speaker was announced for the next meeting as arrangements were still being made.

Executive Board Meeting 8 May 1984

John Keller, N6JLS

Attending were Bill Daley, Bill Dews, Paul Herbert, Bob Hume, Bill Ivey, John Keller, Gary Komatsu, Walt Pearson, Don Resor Jr., Jim Richardson, Chris Wachs, and Paul Wisiolek.

President Walt Pearson called the meeting to order. Walt expressed thanks to Gary Komatsu for a great club picnic. All who attended had a great time. Walt also expressed thanks to all Executive Board and Staff members for doing a great and sometimes superlative job. All efforts are appreciated.

Vice-President Chris Wachs requested a "no business" meeting for the next General Meeting of the TRW/ARC. The reason for this request is that the next speaker will be Harold Price, AK6K, who will speak on and demonstrate a packet radio system. Mr. Price is very active in packet radio as both a user and designer, being very active in the local packet community, having used

Oscar 10 for some packet communications and is Project Manager for the AMSAT Packet Radio Satellite. Mr. Price's presentation takes almost a full hour so the request for a "no business" meeting was approved. General Meeting is Tuesday, May 28, Noon (SHARP!) in R4/1041. Chris suggested a GASFET preamp for the club 2 Meter repeater and Gary Komatsu said that he has a line on one.

Secretary John Keller passed out a draft of a new information sheet to be used to attract new members into the club. ARRL sponsored insurance to protect the club from lawsuits was rejected as all of that coverage is provided by SEA. One more postcard was received from clubs that had not been heard from with an exchange of newsletters.

Treasurer and QSL Card Organizer Paul Herbert stated that the budget has been modified slightly to account for the net loss to the club that the door prizes present. Paul pointed out that this is not a large loss and it is being made up for by a larger than expected income from the Swapmeet. Paul reported that the obtaining of new QSL Cards has taken a giant leap forward as the TRW Vice-President of Communications has approved the club's request for new cards and all the info is in the Graphics department for design. Paul was wondering if the wording of the QSL printed info should be changed as there are new forms of communication which should be accounted for. John Keller was given the task of writing the ARRL to find out if there are any guidelines in this regard. It is the policy of the club not to publish details of the club treasury. If any club members want details of our income and expenditures you may find these out at a club meeting or contact the Treasurer. All board and staff members phone numbers can be found on the last page of the Crosstalk. Activities Chairman Gary Komatsu stated that he has purchased T-Shirts for Field Day and has also received the antenna masts that were ordered. Gary also purchased a bull-horn for use by the Swapmeet Managers. Gary stated that we are also in need of a 2 Meter Captain for Field Day. The club has a brand spankin' new ICOM 271A for use that day so if anyone is interested please give Gary a call!!

Trustee Bob Hume showed off the new ICOM 271A transceiver and stated the instruction book was like learning to use a personal computer! Copies of the manual will be made and be put in the library of the club

station for checkout. With the increased activity on 40 Meters to K6AWS in Idaho, Bob suggested that a 40-80 Meter dipole be purchased and installed as an Inverted-V so that the club station can be used by those interested. Also needed is a plug mold with a switch and circuit breaker so that many individual pieces of equipment can be controlled at one time, i.e., the Oscar 10 setup. Funds were approved for these purchases.

LAACARC Delegate Bill Daley stated that the QSL bureau handled 57,000 cards. Amateur Radio Operators were being solicited to help with communications for a 200 to 400 mile bicycle race between Thousand Oaks and Refugio Beach. Problem is the race is being held Field Day! If you want to help and won't be at Field Day call Bill or John Keller. Amateurs are being actively recruited for the Olympics. There are many ways to help - see the March Crosstalk for details of how you can get involved.

Walt reported that contact has been made between the TRW/ARC Emergency Communications Group Coordinator Dave Gilmore and the TRW Security Emergency Coordinator. Further detailed meetings are to be held around the end of May.

Membership Chairman Bill Dews quickly reported that the club presently has 134 members. This is down slightly from last year.

SEA Council Representative Bill Ivey clarified the SEA requirements concerning all correspondence from our club to other clubs. John Keller volunteered to create a letterhead to conform to these requirements and submit it for approval.

Assistant Swapmeet Manager Don Resor Jr. stated that there were 260 sellers at the last Swapmeet. The computer list of regular sellers is working well and helping to speed the processing of sellers as they arrive. There has been an increase in buyers parking illegally in areas where the curbs are painted red. All buyers are put on warning that the City of Manhattan Beach Police Department CAN AND WILL ticket vehicles that are illegally parked! Please park in designated parking slots only and walk just a little further.

Walt closed the meeting with a suggestion to Staff Officers that they follow Jim Williams lead and obtain someone to work with them as an assistant.

AN EMERGENCY AUTOPATCH PRIMER

E. J. Schwartzman, WB4IOL

Let's face it: Nobody is ever fully prepared to make an emergency call, and it's normal to stumble a bit. Since we cannot practice on the air the way we do for traffic handling or for communication backup service, the best we can do is to refresh our memory of the steps to take and the information needed, and hope for the best.

Step 1: Stay calm, which is not very easy if you've just seen a sports car climb under a semi-tractor truck to get out of the sun. Try to stay cool, anyway; you can't help anyone in a panic.

Step 2: Stop and THINK. Move to a position where you are not in danger and take stock of the situation. You should be able to get the information needed for the authorities in 30 seconds or less. Try it some time when there is no emergency; it will be good practice.

Step 3: Call for help. If you have called 911, your call was probably "screened" by a police agency, such as the county sheriff. Give them a brief description (see below) of the incident and the location so they can transfer your call to the proper agency. Give this agency all the details they need, and follow whatever instructions they give. Do not get involved in any emergency unless you know thoroughly what you are doing. You could get into serious trouble and then need help yourself.

Information to be given in an emergency.

1) What is the nature of the incident? (i.e., car accident, crime, fire, stalled vehicle, etc.)

2) Is there immediate danger to life and property? Are there injuries, leaking gas, downed power lines?

3) Is it happening right now?

4) Where is/was the incident? Be as exact with location description(s) as possible: what road, direction of travel, distance and direction from highway exit or mile marker, any landmarks.

5) Number and descriptions of person(s)/vehicle(s) involved. Describe the person(s) involved: sex, age, race, height, weight, etc. Describe the vehicle(s): make and model of the vehicle(s), license number, any noticeable characteristics such as dents, body rot or other damage.

While this seems a great deal of information to get in a very short time, remember that some situations will need much more than what and where the incident is. The

investigating officers can get the rest of the details at the scene.

The average emergency call should take no more than 30 seconds from the time the autopatch is accessed until it is terminated. Adding 30 seconds that it should take to get yourself and your information organized brings the total time invested to one minute.

Got a minute? Do it right and make it count!

Tidbits from the Jolly Little S—!

For those of you interested in knowing how the Rodners are doing in Idaho, Bill, K6AWS, has been on 40 Meters. He can be heard at 8:30 PDT at 7.260MHz on Monday, Wednesday and Friday nights. If you don't have 40 Meter transmit capability but can get into the club 2 Meter repeater OK, then Charlie Clarke, W6NWP, will help you out with a 2 Meter patch. It does help to have 40 Meter listen capability. By the way, as I am typing this Bill is just getting over a bout of the flu, but his 35 year old woman doctor is pulling him out of it!!!

Congratulations to Dale Jensen, K6ZTI, who after more than 20 years of Hamming as a Technician has upgraded to Advanced!!! Dale said he was told that only 1 in 50 Amateurs with that much time as a Tech will successfully upgrade. Looks like Dale is a member in good standing of that select group!!

If you have any bits of news about club members or yourself that would be of interest to the club just let any of the members of the Executive Board know and we will see that it gets into the Crosstalk. Our names, phone numbers and mail stops are listed on the last page of the Crosstalk.

SKINNER'S CONSTANT (FLANNAGAN'S FINAGLING FACTOR): That quantity which, when multiplied by, divided by, added to or subtracted from the answer you get, gives the answer you should have gotten.

LAW OF SELECTIVE GRAVITY: An object will fall so as to do the most damage.

JENNING'S COROLLARY: The chance of the bread falling with the buttered side down is directly proportional to the cost of the carpet.

GORDON'S FIRST LAW: If a research project is not worth doing, it is not worth doing well.

MAIER'S LAW: If the facts do not conform to the theory, they must be disposed of.

ARRL Insurance

Have you checked your insurance lately? Does your homeowners policy cover your radio equipment? Have you inventoried your "ham shack" lately to see how many bars of gold you have hidden in there? The ARRL offers insurance to amateur radio operators who are members of the ARRL, and there are some very interesting aspects. The cost of the policy is \$1 per \$100 of replacement cost value, with a minimum of \$10 and a \$5 administrative fee. The deductible is only \$50 unless the loss is due to lightning or fire and then it is only \$25. The only items not covered are towers, antennas and rotors. All radio equipment is covered -- both fixed and mobile. You must insure all of your equipment -- you cannot insure just part of it. Any new equipment that you buy after the policy is in effect will also be covered as long as its value is less than \$1000. The TRW/ARC uses this insurance as we are an affiliated ARRL Club. You may have a tough time finding all of it, but the TRW/ARC has almost \$7000 worth of equipment -- every bit of it insured by the ARRL policy. If you would like more information write (or phone):

ARRL GROUP INSURANCE PLANS
1500 Higgins Road
Park Ridge, Illinois 60068
(312) 698-2221

BADGES

Membership Chairman Bill Dews says that badges have been ordered for Ernie, W6JNR; Joe, K6IL; John, W6IMQ; and Jim, W6GPE. They should be in by the next meeting. Don't forget that wearing your badge to the club meeting will get you a free door prize ticket. If you can't find your badge or never had one, contact Bill Dews, K6AWO at X58416 and for \$2 he will fix you up.

FOR SALE / WANTED / FREEBIES!

FREE: TCS Transmitter, Receiver and Power Supplies. Navy surplus. 1.6 to 12 MHz, 50W, VFO and crystal, AM/CW. Schematics included. Contact Jim Richardson, K6PDR, X63290.

FOR SALE: 2 Section, 20 foot Tower, 12" wide, \$200: Antenna, 3-element Hy-Gain, 15 and 20 Meter, \$45: Rotor, Alliance HD73, heavy duty service, \$70. Contact Mike at home 675-9639.

FROM THE LIBRARY

What is new in this month of:

- ST : Xtal-controlled Q-meter: 40M Phased Delta Loop; Product Review of FR-726R; A Simple Function Generator (8 Hz-8 Khz) using a ICL 8038.
- HR : Antenna issue: 2-M Yagi design; Capacitively Loaded Dipole; Vertical Phased Arrays, Easy Ant Matching; End-fed Multiband 8JK
- CQ : A Function Gen with 8038 (10 Hz to 100 Khz); A Cheap and Easy RF Noise Bridge: Review of Santec ST-142 2M HT.
- 73 : Antenna issue: Well, you come and read it this time.
- We still need photographic boxes to store our old QST and we would appreciate any donations.

UPGRADE

Congratulations are in order for Dale Jensen, he now has an advanced class license.

PRESIDENT'S MESSAGE - WALT PEARSON N6DZM

While I don't intend to make my message a regular feature of this newsletter, I do want to take special note of the performance of the elected officers and staff. At the beginning of the year I anticipated having to be very involved in the details of each function. This has not been the case as each officer and staff member has done a great job in their respective areas and in interfacing and sharing with the others.

I have asked the staff to find assistants, not only to share the work load, but to represent them in their absence as necessary and to provide experience for succession if and when they may choose to relinquish their positions. I would also urge all members to participate in functions that can use help - Field Day teams, antenna parties, swap meet, code and theory education, articles for Crosstalk.

There are still a couple of details that I think can use a little help to still further enhance the progress of the club. I will be helping as I can to provide additional effort in those areas.

APRIL SWAPMEET NOTES

The April turnout was not as heavy as the March affair - fortunately, as the parking lot adjacent (North) was closed for maintenance and guide line painting. About 75% of the 360 seller spaces were occupied. As usual a lot of real interesting equipments turned up at bargain prices. The traffic control and general supervision of the meet was ably taken care of by Don Resor, N6KAW assisted by Bob Hume, KG6B and Joe O'Brien, K6IL.

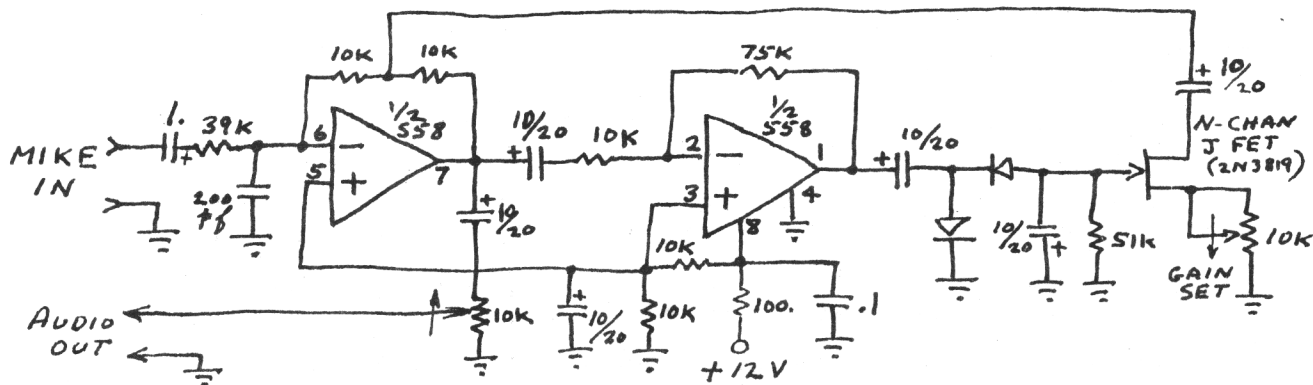
Be advised - the Police are issuing parking tickets for parking next to the red painted curbs - this type of citation is justified by the need for these streets to be kept clear of parked cars at all times to allow Fire Fighting equipment unobstructed access.

NEW MEMBERS - - OLD MEMBERS

Welcome to the club new member Ernie West, 6JNR. And a couple of late starters Ed Wheeler, N6AGA and Dick Treece, K6RT and gone for a couple of years but back with us again Phil Wheeler, W6TUH.

CLUB STATION

The club has acquired a new Icom IC-271A, 2 Meter, All mode base station transceiver. To make the best use of it we need to replace the guy wires on the crank-up mast. We also have a KLM KT34XA antenna to assemble and install for the HF station. If you can help weekends, after work or noon time then call Bob Hume at work, 217-3624 or home, 376-4192



AGC/compression Amplifier

Jim Richardson, K6PDR

This circuit is from Dick Treece, K6RT. Dick uses it between the mike and the input to his SSB rig as a compression circuit for an improved SSB signal. I can see other uses for it also; like in an intercom amplifier application.

TRW ARC 4-19-84

KX6A	JOHN A.	WA6KPC	JACK
WB6APQ	FLOYD S.	W6KQI	AL
WA6ATK	DAVE	WA6KXX	RAY
K6AVQ	CHESTER	KE6LB	BILL
K6AWO	BILL	KE6LI	ROLLAND
K6AWS	BILL	KZ6M	HARRY D.
KG6B	ROBERT	K5MJU	BOB W.
KA6BFI	DREW	K6MLL	RON C.
KG6BH	DONALD W.	WA6MMU	MARY E.
KA6BKL	THOMAS W.	W6MSX	RALPH
K6BO	BILL F.	KE6NA	KEN
N6CIZ	RICHARD J.	KA6NDN	VIC P.
KG6CR	PAUL	KA6NES	KENT
N6CRW	FRED	KD6NQ	PAUL
WB6CTX	BRUCE L.	N6NS	NORMAN D.
KF6CV	STEPHEN	WA6NTX	GEORGE M.
W6CZL	MAS	W6NWP	CHARLES
WB6DJI	MIKE	W6ODI	BOB
WA5DJJ	DAVID R.	W6OJN	DAVID
WA6DLA	DALE W.	KA6OUF	MIKE
N6DMV	PAUL	KA6PAS	TED L.
KB6DPK	HERB	K6PDR	JIM
WB2DRH	JOSEPH	KE6PI	MAC
WB6DVH	DAVID F.	K6PUK	BOB
N6DZM	WALTER H.	WA6OET	BILL
W6EKK	STAN E.	WA6RAY	FRANK R.
N6EXQ	BRUCE L.	W6RDH	BILL
N6EYV	BOB	K6RF	TED
N6FLH	HELEN	K6RGW	RICH
WA6FLL	AL	WB6RLN	GARY
WB6FPS	MARION	W6RLN	F.X.
W6FQ	HERB	W6RTG	JIM
N6FVK	WALT	WA6RUZ	CHARLEY
N6GBX	BOB	KF6RW	DAN
W6GC	IRV	W6RXD	ED B.
N6GCU	BILL N.	W6RZD	FORREST
W6GPE	JIM	W6SCL	FRANK J.
N6GPS	DON	KX6SI	EUGENE
WA6GVO	JERRY	WA6SKM	CONNIE
K6GWC	MEL	KE6TC	PHYLLIS
AD6H	DOUG	WB6TDE	CARL J.
N6HJP	JAMES G.	W6TEC	EDWARD
K6HPD	GARY	KA6TRK	PAT
N6IDC	SUSAN	WA4TTG	BARRY R.
WB6IDJ	DAVE	W6TUH	PHIL
KA9ICB	GREGG	WB6TWY	ROY
K6IGU	DARWIN L.	WA6TYN	JOHN
K6IL	JOE	K6UG	DON
W6IMQ	JOHN C.	W6UMC	FRED A.
W6IOW	GEORGE H.	WB6UXK	SANFORD
W6IPM	BILL	WA6VJQ	EARL E.
W6IRG	TONY JR	W6WJE	BERT
W6IVW	JIM	WA6WZD	J.C.
W6IZK	WAYNE	NJ6Y	LIN
K7JAJ	JIM	K6YQ	PAUL
N6JDH	ROBERT	WA6YSK	PAUL
N6JDO	FRED	WA4YSS	DAVID C.
W6JET	ROY	WB6ZAK	BOB W.
N6JLS	JOHN R.	WB9ZDS	CHARLES H.
W6JNR	ERNEST C.	K6ZTI	DALE R.
WA6JOK	ED J.	KA6ZTJ	STEVE
N6KAW	DON	W6ZVM	ED
WA2KDL	CHRIS W.		

OREGON HAMCON

If you are heading north June 1-3, you might checkout the ARRL Northwestern Division Convention at Seaside, Oregon. Along with all of the usual HamCon events like a flea market, bunny hunt, YL/XYL treasure hunt and exhibits, the featured speaker at the banquet will be NBC News Science Editor Roy Neal, K6DUE. Registration can be paid at the door: Singles \$7, Couples \$9, Teens with parents \$2 and under 12 free. The Banquet is \$13.50 per person. For you RVers there are four trailer parks in the area. If you will find yourself in the area on the first weekend in June and want more info and a map of the area then contact John Keller, N6JLS, x55485.

Some Universal Rules

MURPHY'S LAW:

If anything can go wrong, it will.

O'TOOLE'S COMMENTARY ON MURPHY'S LAW:

Murphy was an optimist.

NONRECIPROCAL LAWS OF EXPECTATIONS:

Negative expectations yield negative results.

Positive expectations yield negative results.

HOWE'S LAW:

Every man has a scheme that will not work.