



# CROSSTALK

News Bulletin of the TRW Amateur Radio Club

Member, American Radio Relay League

March, 1984

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## CALENDAR FOR MARCH AND APRIL

March 27	Club Meeting R4-1041	John Browning, W6SP speaker Chairman of Board of Directors AMSAT
March 31	Swapmeet	
April 10	Executive Board Meeting;	all are welcome.

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## EQUIPMENT ACQUISITION

We are going to develop a three-year plan for equipment acquisition. All members are encouraged to provide suggestions. A Committee Chairman will be appointed to put this plan together in the near future. Until that person is identified, please send all inputs to Walt Pearson, E2/3063. Thanx a lot.

## NEW CLUB MEMBERS

A big welcome to our new club members Douglas Lock, AD6H and Herb Halling, KB6DPK.

## GOOD LUCK TO THE RODNERS

Bill and Trudy Rodner have sold the house and will be moving to Idaho in the very near future. Bill has been an active member of the TRW/ARC for about 10 years. Bill's most visable service has been as Vice-President in 1981 and 1982 and President in 1983, but he has also been there for the Swapmeet and Field Day too. Some may not remember, but Bill was one of the group that was responsible for getting TRW assistance in purchasing the club 2-meter repeater and working out the arrangements for what was the Garrett 2-meter frequency allocation. Trudy just got her Novice License last year and will soon join the ranks of technician, and was there supporting Field Day in the galley for many years too. When a low band schedule is set up it will be printed here, but until then you can reach them by writing:

Bill (K6AWS) and Trudy (KB6CBF) Rodner  
P.O. Box 399  
Priest River, Idaho 83856

Good Luck and Best Wishes Bill and Trudy from the TRW/ARC!!



Attending were Jim Cox, Bill Daley, Mel Erb, Paul Herbert, Bob Hume, Bill Ivey, John Keller, Gary Komatsu, Jim McWilliams, Jack Orr, Walt Pearson, Don Resor, Jr., Jim Richardson, Bill Rodner and Chris Wachs.

The meeting was called to order by President, Walt Pearson.

Vice-President, Chris Wachs, stated that the speaker for the General Membership Meeting, Tuesday 27 March 1984 (R4/1041-Noon) will be John Browning, W6SP (Space Person). Mr. Browning is Chairman of Board of Directors for AMSAT. Mr. Browning's presentation will focus on past, present and future for AMSAT. Chris also presented the recommendation to the board to purchase the ICOM 271A 2-Meter all-mode transceiver. The recommendation was accepted and further action set aside until the budget has been presented and approved.

Secretary, John Keller, passed out copies of the proposed membership questionnaire and solicited comments. The questionnaire will be added to the CROSSTALK. John also stated that one postcard has been returned of those sent out to clubs that have not been heard from recently. The form for renewing the ARRL insurance on the Club equipment has been received. Paul Herbert to supply John with last years list of equipment and equipment purchased this year. With Past President Bill Rodner moving to Idaho, John accepted the key to the Club repeater equipment room and control information.

Treasurer Paul Herbert stated the club funds are in good shape and preliminary budget projections show the Club to be in good shape for the year. All budget inputs to be in to Paul by Tues. 20 March. Paul suggested that the club form a three to five year plan for the purchase of equipment for the Club station.

Activity Chairman Gary Komatsu reported that the TASMA report has been mailed. Team Captains for Field Day have been established, and they are:

40M	SSB	Ollie Sanders	398-7313 (H)
20M	SSB	Carl Kennedy	267-2521 (W)
15M	SSB	Bill Schrecengost	x56271
40	CW	Bob Hume	217-3624 (W)
20M	CW	Shim Nakemura	391-1124 (H)
15M	CW	Paul Wisiolek	374-7176 (H) 435-4476 (work-G.E.)
2M		-open-	

If you would like to operate or log QSO's for Field Day please contact the respective Captain or Gary at 176-9230 (W). Help is also needed Friday afternoon erecting antennas and Sunday dismantling antennas. Also a kitchen crew will be needed. There's plenty for all to do, so pitch in! Gary also reported that the St. Patrick's Observance is all set, to be held at the Torrance Shakey's.

Gary stated that the Club picnics are scheduled for May through September and will cost the club about \$50 each. To minimize the burden of Club finances, no additional picnics are scheduled. Picnics will feature club supplied food and drink.

As the Vice President had to leave early discussion was held on a replacement antenna for the Club repeater. Copies of the specs for a commercial antenna recommended by K6AHF (Chuck) were passed around. Costs were discussed. A motion to purchase the antenna was made by Chris Wachs and seconded by John Keller. The motion was voted on and passed. Paul Herbert was given the task of placing the order.

Trustee Bob Hume reported that all guy wires have been replaced. The new rotor will not fit in the top mast section, so the top mast section will be removed and the new rotor and antenna will be installed on what is presently the middle tower section. This is not expected to affect antenna gain. A shelf and thrust bearing must be manufactured.

EXECUTIVE BOARD MEETING      con't.

LAACARC Representative, Bill Daley, reported that the QSL Bureau handled 39,000 QSL cards in the first 2 months of this year. The LAACARC expressed hopes that clubs establish a P.R. chairman position. The Olympic Amateur stations are back in the LAOOC plans and there are 4 different ways amateur operators can participate. See the announcement elsewhere in the CROSSTALK. A letter describing 2 Meter FM activity in Europe was passed on and will be available in the Club Library.

Membership Chairman, Bill Dews, stated that there are about 50 members who are delinquent. Membership renewal reminders have been run in the CROSSTALK for 3 months. How about it? Is your membership current?

SEA Representative, Bill Ivey, presented new SEA requirements for all club correspondence including the CROSSTALK and any flyers. Check the new CROSSTALK format for an example.

Editor, Mel Erb, stated that all items for publishing in the CROSSTALK must be in by Friday after the EBM. There are only a few QSL cards left. Paul Herbert stated that he met with Neville Barter to arrange for financial support to print new QSL cards. Paul was confident funds could be found to print new cards, even though no commitment was made.

Swapmeet Chairman, Jim McWilliams, stated that the possibility of portable toilets supplied by the Mt. Wilson Club is still up in the air.

Librarian, George Lee, wished to clarify that the Sunday Apple Net mentioned in the February CROSSTALK is at 1700 GMT, not local.

Training Chairman, Jim Cox, pointed out that the latest development with the Volunteer Examination Program can be found in the March, QST on p.48. Jim also stated the Club has plenty of aids for learning and practicing morse code.

SEA Representative, Bill Ivey, passed to Walt the fact that SEA club contributions will be down about 30%. This fact and the increased cost of producing the CROSSTALK are expected to have a serious impact on the Club budget.

FORSALE

TELEX, TH6DXX W6TRW Club antenna. Needs refurbishing - asking \$75.  
Bob Hume 217-3624

FOR SALE: Heathkit SB300, \$100; SB480, \$100; HM-11 Power Meter, Best Offer; HD-10 Electronic Keyer, \$50; HN-31 Dummy Load \$15.  
Tempo One Plus \$350 Swan SWR-1 Power/SWR Meter \$35  
Electrovoice 423A Microphone \$15  
Dentron Jr. Transmatch \$100 Unidilla Antenna Trap Coils \$56

Contact: Roy Couzin W6JET x61920

SWAPMEET NOTES      FEBRUARY 1984

Saturday the 25th of February was sunny and very windy during the morning hours. The swapmeet lot was about 80% full - less than the January meet, which was almost completely full. The volunteer swapmeet supervisors Bruce Johnson, N6EXQ; Don, KG6BH and Steve Harvey, KA6ZTJ, did a fine job. Don and Steve are a father and son team. They drove in from the Capistrano site area to help out. This swapmeet date conflicted with the Southern California Antique Radio Society meet held in Burbank and so I was surprised to see a number of antique radios for sale at our swapmeet. The amount of computers and computer related items (software and hardware) seems to be increasing with each monthly meeting. The large amount of trading, buying, selling and eyeball QSO's that went on certainly made the swapmeet appear to be a success.

Jim McWilliams, W6RTG

## AMATEUR RADIO AT THE OLYMPICS

Amateur Radio Stations are back in the Los Angeles Olympic Organizing Committee (LAOOC) plan, but time is running short. All Amateurs participating must pass a security clearance check, so if you want to help make contact with the activity captain TODAY !!! Here is how you can help and who to contact.

- 1) Operate an Olympic Village Station or at home as relay station

Contact: Dick Manheimer K6LAE  
650 Westholme Avenue  
Los Angeles, CA 90024

Dick will need your name, call sign, address and whether you want to work a village station or at home. He will send you a more detailed questionnaire.

- 2) Out-of-Stadium Events which include:

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Bicycle races in Mission Viejo and on the Artesia Freeway (91)  
Two Marathons - Santa Monica to L.A. Coliseum  
Two Walking Races - Around the L.A. Coliseum  
Exposition Park Heath Services

Contact: Tom Rothwell  
3621 Fenley Drive  
Los Alamitos, CA 90720

Tom will need your name, call sign, address and what event you can support.

- 3) LAPD Communications Support

This activity is being organized in cooperation with the L.A. Section ARES Organization. You must have 2-meter capability (mobile or hand held), must commit to 4 days between 28 July and 12 August and pass an LAPD security clearance.

Contact: Tom Rothwell  
3621 Fenley Drive  
Los Alamitos, CA 90720

Tom will need your name, call sign, and address.

- 4) Boating events in the Long Beach Area

Operators will be assigned to a boat that will be in the race area. You must commit to the entire time July 28 to Aug. 10 Except Aug 4 & 5 (Sat & Sun). Races are expected to be held each day will Friday held in reserve if needed.

Contact: Betty McConnel  
498-8467 (Home)

## MEMBERSHIP QUESTIONNAIRE

Attached to this Crosstalk you will find a questionnaire. We are trying to determine where the activities of the membership lie and how you feel about what the club is doing now. Please be honest. We are only trying to determine what is best for the TRW/ARC. Results will be published in a later Crosstalk. Please take the time NOW and fill in and send the questionnaire to M/S S/1435 TRW Amateur Radio Club. If you are outside the company please send it to:

TRW/ARC  
One Space Park M/S S/1435  
Redondo Beach, CA 90278

Thirty-nine members attended! Meeting was called to order by President Walt Pearson. Walt requested that Club Officers and Staff send budget inputs to Treasurer, Paul Herbert, before the Executive Board Meeting (13 Mar). Trustee Bob Hume called for an Antenna Party at the Ham Shack in Bldg. 65 for Saturday March 3. The St. Patrick's Day observance is scheduled for Friday 16 Mar. after work at the Torrance Shakey's. Food rebates and pre refreshments will be provided.

Activities Chairman Gary Komatsu stated that Team Captains for 15 meter and 20 meter CW were still needed. All other teams for Field Day were filling out nicely.

Secretary John Keller and Librarian, George Lee are preparing a questionnaire to determine the interests of the club membership so that the club officers can determine where their efforts should be directed and club funds expended.

Treasurer, Paul Herbert stated that the treasury is in good shape as membership dues continue to trickle in and the good turnout at the monthly swapmeet continues to contribute funds through the sale of coffee, donuts, hot dogs and soft drinks.

Copies of a flyer for call sign stick-ons that can turn any postcard into a QSL card were passed out and quickly exhausted. More flyers will be available at the next meeting (Tues. 27 Mar. Noon R4/104).

Vice-President, Chris Wachs introduced the speaker, Commander (Ret.) USN, "Butch" Mason. Butch was a UC graduate in 1940, became a naval aviator and worked his way up to Squadron Commander attending graduate school at the Naval Academy. Commander Mason related much of the development work that went into the early days of SSB. Advances in technology like "ultra" stable oscillators ( $\pm 50$  HZ) and modulation techniques like the constant differential phase shift network made SSB available to Hams. Butch was responsible for the first "Bi-Lateral" SSB unit, which ended up becoming this Cosmos 135 Amateur rig. Commander Mason's presentation was followed by an energetic question and answer session that ended only because time ran out. A great presentation to a packed house, and a thank you to Commander Mason from the TRW/ARC.

Gary Komatsu reported that repairs to the W6TRW repeater have been accomplished. The apparent problem with the repeater was a 20db loss of gain in the receiver, all attributed to the first RF amplifier. The reason for the failure of this device was not established. The repeater is presently being "burned-in" to checkout the repairs. A date for reinstallation of the repeater was not given.

Emergency Communications Group coordinator, Dave Gilmore, recounted some of the details of the R6-M5 emergency. An overheated plating tank set off a fire sprinkler that 3 fire departments responded to (El Segundo, Manhattan Beach and Hawthorne). Communications were difficult as the W6NWP repeater was difficult to access from the emergency site. Participating members were W. Dews (K6AWO), D. Gilmore (WB6IDJ), J. Keller (N6JLS), G. Lee (W6IOW), E. Wheeler (N6AGA) all on site; S. Johnson (W6EKK) off site and W. Ivey (WA6QET) in Security.

Last years members of the ECG should have received applications for HT passes. If you did not, or would like to join the ECG, get in touch with Dave at 61585. Note: You must be a paid up member of the TRW/ARC and a TRW employee to receive a pass.

## General Meeting con't.

The members of the Executive Board expressed unanimous appreciation for the job Phyllis Gilmore has done at CROSSTALK Editor. Best Wishes and Good Luck in your "Paper Chase" for your Masters Degree.

George Sanso (AB6A) of Henry Radio made a presentation on AMTOR (Amateur Teleprinting Over Radio). George described the data format, error checking and "closed loop" characteristics of this method of information transmission. Mode A or ARQ (Automatic ReQuest) versus Mode B or FEC (Forward Error Correcting) transmission techniques were discussed and when each type is appropriate. All members were invited to Henry Radio any Saturday except after their swapmeet to discuss details of AMTOR with George and get some hands on experience.

The door prizes were a Ni-Cad battery charger, foreign and domestic 1983 Callbooks, a logic probe, a radar detector, a multimeter and a multimeter kit.

## FROM THE LIBRARY

We need boxes of about 8 x 11" for storing earlier format of QST. Any donation would be appreciated.

Old copies of QST to be given away to those who send me a statement for the purpose.

The Apple Net for Sunday morning at 0900 PST (1600Z) is from WB7TRQ at Cheyenne, Wy.

What is in March issue of:

QST: For those who use hand-held portables while mobiling could construct a simple 3-terminal 10v reg. unit to save the nicad. Two circuits are shown below, one for mobile and one for base use. For those scientists who venture into new developments, there is an article on Switched-Cap. Filters. If you are already using one, may we hear from you?  
For the Product Review dept: Kenwood TS-430S and Heath Audio Filter HD-1418. Both are very good units.

HR: Wideband amp. using Avantek GPD units. Speech synthesis

CQ: Product Reviews: Mirage MP1 (2-30 Mhz) and MP2 (to 200 Mhz) Wattmeter/swr instruments with schematics.  
Review of Ham Data Software for VIC 64/20 (you lucky guys with those machines, hi, hi!)  
Description of 20 Meter Beacon Network for checking propagation and for other purposes.

73: If you like to read how other hams searched for W5LFL, read some 50 pages in this issue.  
A beeper to indicate end of voice transmission.

## MORE DX SHOWING UP ON AO-10

As announced in ASR \$69, ASR will occasionally publish a list of country/ prefixes which have been active on AO-10. The following is the first occasion. Thanks go to G3IOR, W8DX, WH6AMX, W0TT and W0CY for sharing their "scorecards" with us!

A7, CE, CE0A, CT, CX (imminent ops by LU1ACH a/o 12 Feb 84 reported by LU4ENQ) DJ/DK/DL, DU, EA, EA8, E1, F, FC, FK8, FM, G, G1, GJ, CM, GW, HB, HBO, HC, HG, HL, HZ, H44, I, JA, JY, K,W,N, KG4, KG6, KL7, KP2, KP4, KV4, LA, LU, LX, OE, OH, OK, ON, OY, OZ, PA, PJ2, PY, P2, SM, SP, SV, TI, TR, TU, UA1,3,4, UA9,0, UB, UL7, VE, VK, VP2, VP8, VP9, VS6, VU, V3, WH6, XE, YB, YO, YU, YV, Y2, ZD8, ZK2, ZL, ZS, Z25, Z53, 3A, #d2, 4U1, 4X, 5N8, 9H1, 9M2, 9Y4.

That makes 89. Additional inputs are welcome.

TNX Amateur Satellite Report