



cross talk

NEWS BULLETIN OF TRW AMATEUR RADIO CLUB



Sponsored by Systems Employee Association



WAC
WAS
DXCC
FD'71
FD'73

May, 1979

SPEAKER:	Jim Kingsbury WA6LFF
SUBJECT:	Engineering of Mattel Toys Slide Show Plus Samples
DATE:	Noon, May 30, 1979
PLACE:	R5-1138

LICENSE RENEWAL

Did you ever compete in a field day Exercise and later find out your license had expired three months previously? Welllll, if you send me a copy of your license, I will put a notice in the paper three months before it expires and you will have plenty of time to fill out your 610. This service is offered by other clubs, and there is a definite need for it. Send a copy of your license to Mel Erb, S-389.

APRIL SPEAKER

Our first night meeting was a disaster. If the Executive Committee had gone home the guest speaker would have been talking to himself. Don Bostrom N6IC had a very good slide show and gave us an insight to troubles encountered landing and living on Clipperton Island. Most of the club really missed a show. Thanks, Don.

DOOR PRIZE WINNERS

Screw Tools	Ed Thornley	Jewelers Screwdrivers	Greg Martens
Screw Tools	Bob Hume	Screw Driver	Bill Ivey
LERC Ticket	Matt Orlich	LERC Ticket	Frank Cartier
Dymo Labler	Fred Reed	Screw Driver	Mel Erb
Dymo Labler	Dave Gilmore		

SWAP MEET

Please look thru your shack and bring in the old QST, CQ, Ham Radio, 73, for the Swap Meet. Anything else you want to get rid of the club will take it off your hands. Call me 62555 or a note to M2-1821, so we can take it off your hands before the next Swap Meet.

TNX Bill K6AWO

DON'T FORGET

Santa Maria Radio Swapfest June 17, 1979

Sunday 10AM - 4PM BBQ Served at 1PM.

South West Division Convention

Oct. 19,20,21 Anaheim Sheriton Hotel, HAMCON P.O. Box 1227 Placentia 92670

1979 FIELD DAY

The TRW/ARC will conduct Field Day operations this year on 23 and 24 June, 1979. If you have not already signed up for this major club annual event, contact Bob Hume at X53321 or one of the team captains listed below, or as a last resort simply show up at the Soleado Elementary School by following the map contained herein.

The 1979 Field Day committee is composed of the following tireless volunteers:

General Chairperson	Bob Hume	WB6AQF
Power Generation	Gary Kamatsu	K6HPD
Food Services	Lou Cartier	
Logs	TBD	
75 SSB	TBD	
40 SSB	Ollie Saunders	N6OS
20 SSB	TBD	
15 SSB	Paul Weisz	K6YQ
10/6 SSB	Frank Cartier	WA6RAY
VHF/OSCAR	Al Lee	W6KQI
80 CW	TBD	
40 CW	Bob Hume	WB6AQF
20 CW	Steve Harrison	WB6PKA
15 CW	TBD	
Novice	TBD	
Publicity	TBD	
Latrine	TBD	

Equipment setup will begin at 0700 Saturday morning with 24 hours of continuous operating time to start sharply at 11:00 a.m. on Saturday. Electrical power will be cut promptly 24 hours after the start at 11:00 a.m. Sunday morning. Sunday lunch will be provided during the tear down and site clean up activities.

Food and meals are being coordinated by Lou Cartier. Meals and beverages will be provided for all active participants.

If you are planning to spend the night bring your own sleeping facilities. Also bring extra chairs.

It is very important that each participant follow the parking instructions shown on the site map. Only those team captains and helpers who are bringing equipment and supplies should use the entrance gate on Flaming Arrow Drive. All others use only the entrance and parking lot on Longhill Drive. This is very important from a safety viewpoint.

On the subject of parking make sure your vehicles are secured to avoid potential rig rip-offs. Since we are again the guests of the Palos Verdes Peninsula School District please pay particular attention to maintaining a neat and clean location and leave your area as neat or better than when we arrived.

The club will be operating with our own call W6TRW/6. As of now the call of the Novice station is not known however we are planning on a Novice setup.

FCC regs require that each operator have in their possession your original license so make sure you bring it along.

The official ARRL Field Day rules are printed in May 1979 QST and will not be repeated here.

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TNX Bill K6AWO

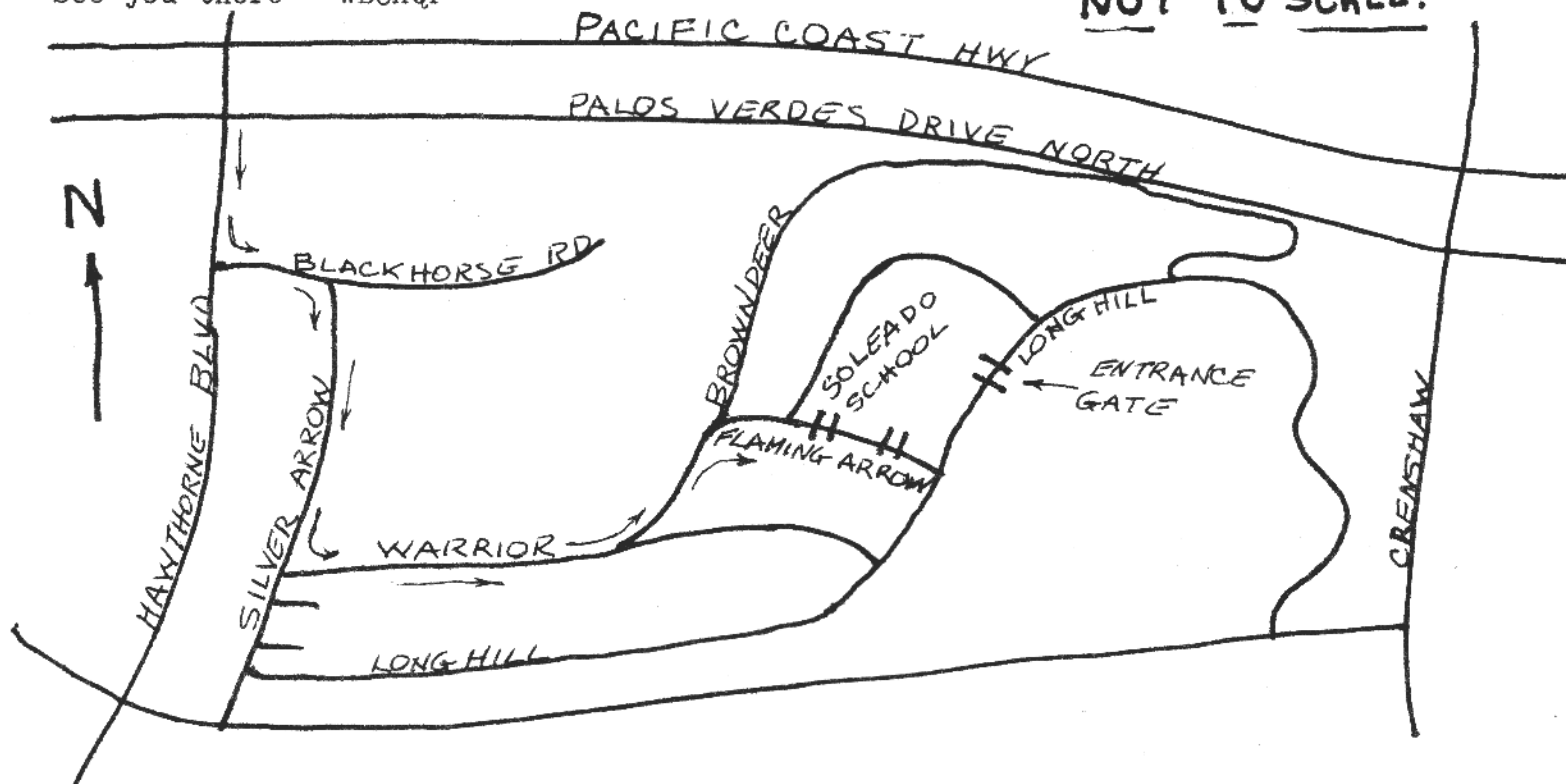
All contacts shall be recorded on the supplied log sheets. Only log the time of each operator's start and stop time. It is no longer necessary to record the time of each contact although space is provided on the log sheet if you desire to do so. As in previous years, log sheets will be collected at the end of each operating hour. It is essential that each operator record his in and out time so that we have a record of who was operating a particular station at any particular time.

Since the ARRL requires the submittal of all check sheets (dupe sheets) it is very important that the logger or operator enter the call of each contact on the supplied check sheet. The logs are not to be submitted to the ARRL except by special request.

We will be operating the Class 7A (7 simultaneous stations, emergency power) and since we have 7 stations they will remain in operation at all times so there will be no operating time conflicts or band plan required.

See you there - WB6AQF

NOT TO SCALE.



EDITOR'S NOTE

Rules for getting articles printed in Cross Talk:

1. In order to be printed in a particular month, it must be in my hands by the 15th of the same month.
2. It may be handwritten or typed.
3. Treasurer's report, club activities, and executive business and roster of officers must be published. Ads and other interests are printed as space permits - first come, first printed. Smaller articles and ads can be sandwiched in more easily.
4. No article demeaning to Amateur Radio will be Printed under any circumstances.
5. I do not originate articles.

GUNNPLEXERS

Only information on Gunnplexers was submitted by Mike De Hart, WB6KRU. He sent in about 20 pages from various magazines, which were then made up for lack of other response. Thanks Mike.

TREASURERS REPORT - APRIL 1979

Balance on hand - April 6, 1979
 Checking Account 709.07
 Credit Union Shares 138.19

Total 847.26

Balance on hand - April 30, 1979
 Checking Account 720.22
 Credit Union Shares 138.19

Total 858.41

Expenses

Double deposit error correction 14.00
 Door prize (March) 26.96
 Cross Talk printing 37.21
 Speakers lunch 8.44

Total 101.61

Income

Memberships 4.50
 QSL card fund 3.60
 Door prize raffle receipts 17.00
 Bennie fund 2.00

Total 112.76

Jim Hill, W6IVW
 Treasurer, TRW/ARC

MEMBERSHIP CHAIRMAN

I asked John Pettingell today if it would be OK to take his place as Membership Chairman for the time he will be gone and he said OK.

Now what I'd like to see done for W6TRW is to increase the membership 200%. With all your help, of course. Some ideas are; don't throw away Crosstalk, see that someone gets it that you would like to become a member of our club, i.e. as a past member, an old ham who has never joined, or a CB who thinks he would like to become a ham. Remember, you don't have to be licensed to become a TRW/ARC member.

The reasons we need more members are:

1. Better turn out at club meetings.
2. More people involved with Field Day.
3. The club station may get more use.
4. Help at the Swap Meet once or twice a year.
5. Maybe become a guest speaker yourself.

If you see cars in the parking lot with ham tags and you don't know if they are a member of the club, drop me the call and I'll send them some PR on our club. Let's see what we all can do about getting some more people aboard.

73 Bill K6AWO M2/1821

FOR SALE

8 Bunnies, 4 weeks old. Mixture Siamese and Red Satin. 4 black, 2 white, 1 gray and 1 carmel, FREE to good home. Mel Erb 50345/391-1016

LOCKHEED HAMFEST

I attended LERC Hamfest, met a few people I knew from URAC, N6HE, WB6HEU, but no one from TRW. Exhibitor area was filled and other clubs seemed to be well represented. There was not a great number of people at the flea market, but I guess the gas crunch must have cut into their attendance. Lectures were well attended but running a little late.

New Hams

Lance Gay N6BKQ
 Robert Shaw Waiting Call

New Members W6TRW

Kau Clayton KH6JSL
 Albert Ammons WA6SRP
 Richard Anderson WA6IYC
 Irvin Emig W6GC
 Susan Kennedy
 Charles Marlett WB9ZDS

SEE WHERE YOU STAND IN AMATEUR RADIO

I found Ray Day had written something that I have been wanting to do for a long time, so here are his ideas. What I want you to do is give yourself 5 points for each positive answer and SEE where you stand in Amateur Radio. If you remember school grades, a "C" is the 70% area so if you are below a "C" maybe you better get started on some of the examples.

The list is endless, here are a few examples:

1. Get a Novice on the air (97.1d)
2. Have emergency power available (97.1a)
3. Know how to function in a directed net (97.1a)
4. Become an Official Observer (97.1c)
5. Teach a Novice (or General) class (97.1d)
6. Provide communications for a Walkathon, etc. (97.1a)
7. Send and receive Amateur Radiograms for friends and family (97.1a)
8. Homebrew something (97.1b,d)
9. Join RACES, ARES, and/or MARS (97.1a)
10. Offer to send code practice to someone who wants it (97.1d)
11. Participate in Field Day (97.1a,d)
12. Help out in U.R.A.C.'s Project Goodwill contribution (97.1e)
13. Provide local papers with good ham P.R. (97.1a)
14. Upgrade your license (97.1c,d)
15. Operate WRP or QRP, to sharpen your operating skills (97.1d)
16. Observe good operating habits, know Part 97, be able to answer other's questions on proper operating etiquette, rules interpretation, etc. (97.1c,d)
17. Ask technical and operating questions; in short, get smarter (97.1c,d)
18. Experiment (97.1b)
19. Support a repeater (97.1a)
20. Help out the QSL Bureau (97.1e)
21. Help out a TRW Swapmeet booth (97.1d)

Remember that we are defined as an Amateur Radio Service, and our continued existence depends on our accepting this Responsibility.

I know I'm going to try harder to put back into Amateur Radio more in proportion to what I've received from it. How about you?

Thanks Ray Day and Short Circuit

RECEIVER PERFORMANCE OF CURRENT TRANSCEIVERS

One year ago, the Short Circuit carried a comparative table of receiver performance. Below is an updated and more readily understood table based only on A.R.R.L. - measured data. The table also includes SSB two tone intermodulation distortion (MD) products as one measure of transmitter quality. The receiver portion of the table is based on S9=50 microvolts= -79 dBm (QST, Oct '76 and Ham Radio, Oct '75). The noise floor is for a CW bandwidth of 500-600 Hz. The IMD entry includes two columns. The first is IMD dynamic range (DR), and the second indicates how strong two signals separated by 20 kHz would have to be to induce an IMD product that is just perceptible in the receiver in the CW mode. A.R.R.L. claims a measurement accuracy of ± 3 dB. This table is in order of decreasing dynamic range. The numbers in parentheses indicate the relative ranking of performance in a given parameter.

System	Noise Floor	IMD DR (dB)	IMD S9+dB	SSB TWO TONE IMD (dB)
Drake TR-7	-133 (4)	90	36	-33 (6)
Yaesu FT-901	-137 (2)	90	32	-38 (4)
Icom IC-701	-133 (4)	87	33	-45 (1)
Kenwood TS-820	-136 (3)	85	28	-39 (3)
Yaesu FT-101E	-141 (1)	81	19	-34 (5)
Yaesu FT-301D	-133 (4)	75	21	-40 (2)
Heath HW-104	-125 (5)	71	25	-40 (2)
Kenwood TS-520	-133 (4)	69	15	-30 (7)

MINUTES OF THE EXECUTIVE COMMITTEE MEETING May 11, 1979

The Executive Committee meeting of the TRW Amateur Radio Club was called to order on 5-11-79 at 1200 hours, by the club president, Bill Ivey, WA6QET. In attendance were Secretary, Woody Ornellas, AA600; Treasurer, Jim Hill, W6IVW; Activities Manager, Dave Gilmore, WB6IDJ; Past-president, Bill Dews, K6AWO; Crosstalk Editor, Mel Erb, K6GWC; PR Chairman Gary Komatsu, K6HPD; and Swap Meet Chairman, Bill Schreck, WA6EVS.

The following subjects were discussed by the committee members:

Bill Ivey Discussed AMSAT's request for 20 Watt UHF Power Amp. Assigned to Gary Komatsu.

Woody Ornellas Made a motion that the club spend \$85.00 for an MFJ-400 CW keyer and a Bencher By-1 paddle. Seconded by Dave Gilmore. (passed)

Jim Hill Submitted the Treasurer's report.

Dave Gilmore Transmitter is completed and functioning OK. T-hunt will be scheduled for late summer.

Bill Dews Assumes position of membership chairman.

Bill Schreck Submitted list of rules that will be passed out at Swap Meet.

The meeting was adjourned at 1300 hours

Respectfully submitted

Woody Ornellas, AA600
Secretary, TRW/ARC

NOVICE

CW signals to be used at the end of a transmission.

signal	meaning	use
<u>AR</u>	End of transmission	After call to a specific station before contact has been established.
K	Go ahead (any station)	After a CQ and at the end of each transmission during QSO when there is no objection to others breaking in.
<u>KN</u>	Go ahead (specific station) all others keep out.	At the end of each transmission during a QSO, or after a call, when calls from other stations are not desired and will not be answered.
<u>SK</u>	End of QSO	Before signing last transmission at end of QSO.
CL	I am closing station.	When a station is going off the air, to indicate that it will not listen to any further calls.

Example.

cq cq cq de K6GWC k

Any station please answer.

W6TRW W6TRW de K6GWC kn

W6TRW answer only please.

sk W6TRW de K6GWC sk or cl

I have signed with W6TRW and will accept next call or I have signed and I am closing my station.

The line over the letters indicates they are to be sent as if they were a single letter.

I arrived 10 minutes late and wouldn't you know it, the meeting room was changed to the cafe.

ARRL DIRECTOR REPORT: Jay H. was what I missed, but he did have a free ARRL repeater directory copy for everyone. New cyps are for sale for \$1.00.

QSL BUREAU: 40K QSL'S for Jan/Feb while March/April was up to 69K cards due to the good DX. If you don't have an envelope at the QSL bureau, send along \$1 (buck) and you will have four correctly sized and stamped envelopes. Use QST for bureau address. Send gum labels with your address to be attached, please. This will help make the 6 land QST bureau self-sufficient too. Think for a minute HOW many hours people are giving free, to see that the QSL cards (69K in 60 days) are put into envelopes and mailed. Make it easy for them.

ARRL CONVENTION: Oct. 19,20,21 Anaheim Sheraton Hotel. The Crosstalk will run registration forms and I have a few flyers that can be given out at noon-time club meeting. Parking is light; so, if you can car pool it, please do.

SPEAKERS: If you are looking for a club speaker call Moe Joffee, 876-4734 as the council is now trying to get a working list of speakers.

PETE MATTHEWS: Reported 200 operators were involved with March of Dimes Superwalk in the LA area and the lady in charge thanked one and all for the super help.

LAACARC: Reports we have 28 member clubs.

OLYMPIC GAMES 1984: Looks like ham radio will be playing an important part and it's 5 years away yet, but much work will have to be done in between time. Think what you will be doing in 5 years for ham radio.

QUEEN MARY: Nat made a great report and, as we have Al Lee in our club, he will be able to keep us all up on what is taking place.

PETE HOOVER JR.: Asked us to put something in our club paper. What you think Ham radio should be doing five years from now. Your ideas on how 'you' want Ham radio. Write this to VIC CLARKE W4KFC ARRL DIRECTOR, address in QST. He is getting this information together for presentation to either the FCC or ARRL?

TRW/ARC: I asked a show of hands for anyone not knowing about our Swap Meet and got one hand. I pointed out that I didn't see any PR in their club papers. I handed out a flyer to each person present and asked them to at least give us a one liner each month.

MWRA: Sunday, June 3 Disneyland night. Send to: Mt. Wilson RA1400 Alondra Blvd., Santa Fe Springs, CA 90670 SASE & \$6 for each person.

LOCKHEED RADIO CLUB: \$6,000 in prizes and drawings every hr. You will have to get the date elsewhere, as I didn't get it. This is the 15th year and I believe the biggest show for L.A. other than the ARRL Convention this year.

I want to note that the time schedule for the council meeting is very tight and our club along with ARRL were the only two who had flyers to hand out. A lot of information can be conveyed if flyers are available (think about it, you other clubs).

73 BILL K6AWO

MIKE DAVIS HAM RADIO HERO

Mike Davis 13, of Torrance, a Ham Radio Operator, was a hero in directing help to a fishing vessel sinking in the Caribbean, on April 25, 1979. He was able get the information to the Coast Guard in Miami. The Coast Guard flew an aircraft 75 miles northwest of Jamaica, dropping pumps and a raft. Congratulations Mike on a job well done.