



# cross talk

NEWS BULLETIN OF TRW AMATEUR RADIO CLUB



Sponsored by Systems Employee Association



WAC  
WAS  
DXCC  
FD'71  
FD'73

July 1979

Join us on 147.51 while commuting to and from work.

PREZ SEZ

by Bill Ivey, WA6QET

Thanks to all supporters and participators in our successful Field Day contest for 1979. We were "tested under fire" and came through with flying colors. Two days before the scheduled contest, we were informed that we had lost the use of our site location. However, with a coordinated effort by our club members and friends as well as the school board, we were able to get an alternate location. All members had to be informed of the location change and other logistics had to be worked. In spite of these problems, your TRW Amateur Radio Club was able to set up the stations on Saturday and start Field Day operations by 11:45 AM.

A special thanks to the kitchen supporters who under adverse conditions were able to produce a festive benefit throughout the 24 hours of contest operations. Many thanks to RAY and XYL Lou, TDE and XYL Susan, UJX and XYL FPS, the captains and their teams, the supporters, and most of all to WB6AQF for leadership in organizing this year's successful efforts.

SEA SEZ

by Bill Ivey, WA6QET

Dan Draper, chairman of last year's Activities Day, received 1st National Award

The semi-annual allotment for all SEA clubs will be received after the club submits the semi-annual report for 1979.

Volunteers are needed to support the picnic sponsored by TRW SEA. The picnic will be held at the Soledad Canyon Park, approximately 60 miles north of TRW between Newhall and Palmdale. The park has a large swimming pool, as well as a 1 foot deep wading pool for youngsters. The park can support 4500 people in our assigned west section.

The Picnic, scheduled for September 15, should be a very successful TRW event.

FROM THE EDITOR

by Jim Hill, W6IYW

I'm publishing this edition while Mel, K6GWC is vacationing at Yellowstone Park and western Canada. He borrowed the club's ICOM, but it quit operating (Grrr, sez Mel). Well, armed with a borrowed IBM Selectric and a fresh bottle of Liquid Paper, I'll see if I have better luck

Did you ever wonder where the material for Cross Talk comes from. Unless the editor is someone like Wayne Green, most of it comes from other members. We are looking for material, especially something that can be published a month later if the paper fills up. This month's

\*\*\* MEETING REMINDER \*\*\* R5-1138

*Always the last Wednesday at noon*

Subject: Oscar, Phase 3

Speaker: Dr. Norm Chalfin, K6GPX

#### FROM THE EDITOR - continued

material came from the following data base: Bill Dews, K6AW0, submitted 13 items, Bill Schrek submitted 3 items, Bob Hume submitted 2 items including a nice article on filters, and Bill Ivey submitted two articles. Many thanks, everyone

No doubt all of us do a little SWling from time to time, but I wonder how many realize that there are many clubs that cover all aspects of this hobby. Different clubs cover the spectrum from VLF through VHF, and some members approach the hobby with as much thought and ingenuity as hams with 200 countries to their credit. I joined the VLF club, and received help in identifying most of the beacon stations I have heard between 200 and 400 kHz. I also joined two standard broadcast band DX clubs and heard Japan, Red China, and Belize between 800 and 900 kHz (a thrill to me, but easy DX to many of the members). For additional information, send 50¢ to Wayne A. Davis, ANARC Publisher, 27 Cleveland Ave., Trenton, NJ 08609, and ask for the Directory of DX Club Publications and Services. You will receive a list of all the major clubs, plus brief information on each club.

#### FIELD DAY RESULTS

by Bob Hume, WB6AQF.

The TRW ARC (class 7A) field day results with duplicates deleted, and URAC (class 5A), with duplicates not deleted, are listed below:

BAND	CW - TRW '79	CW - TRW '78	CW - URAC	PHONE - TRW '79	-TRW '78	URAC
80	89	121	77	169	47	84
40	438	437	131	382	259	316
20	320	444	646	395	409	949
15	430	395	463	821	396	936
10	4	16	4	250	399	225
6	0	1	0	20	57	15
2	2	7	11	245	227	133
OSCAR	3	9	0	0	5	0
220	0	0	0	0	79	23
432	0	0	0	3	11	0
NOVICE	0	5	133	0	0	0
TOTALS	1286	1435	1465	2285	1889	2681

The above lists number of QSO's.

#### SWAP MEET

by Bill Schrek WA6EVS

The June 30 Amateur Radio Equipment Swap Meet drew the largest crowd yet. Much good equipment traded hands, and everyone appeared to be having a good time. Coffee, donuts, and soft drinks dispensed at our club's booth went fast, and ran out at 10:30AM. Next month, we will increase our supply. Thanks to Mel Erb for donating a Coleman ice chest, which we badly needed. Thanks again to Bill Ivey for heating water on his Coleman stove. Next month, we expect to have a canopy for our booth. It became quite warm Saturday, and it was obvious that shade would be needed in the coming hot summer months.

If anyone wishes to donate any equipment, magazines, etc. please call any of the club officers and arrange for a pickup. The proceeds from the donated items will help bolster the club's hurting treasury. See you at the July 28 Swap Meet.

## SWAP MEET - continued

Editors Note: For those not familiar with the Swap Meet, there are no fees except for refreshment purchases. Equipment for sale must be ham radio related. A number of people at the last Swap Meet asked why it is sponsored by the TRW ARC. The official reason is to be a service to the Los Angeles - Orange county hams. A more unofficial reason is that some of our club swap meet enthusiasts became tired of the long drive to Oceanside, and wanted a swap meet more conveniently located.

An associate member and past speaker on VHF equipment, Chip Angle, N6CA, donated several boxes of QST, 73, and other publications for use by our club or for sale at the club swap meet. Many thanks, Chip. Some of the magazines were sold, and then it was decided to keep the remainder for the club library.

## 6-27-79 GENERAL MEETING

Al Lee obtained an interesting film from the Film Services library for the last meeting. If anyone has access to other films (project progress report films are frequently very interesting) refer to the last page of Cross Talk and contact Al.

The following people won door prizes at this meeting: Robert Kaemmerer, K6PUN, Rolland Goulet, WB6NIS, Dave Gilmore, WB6IDJ, Bill Rodner, K6AWS, Mel Erb, K6GWC, Rolland Goulet, WB6NIS (I didn't goof, he won two prizes), Ralph Clark, KA6AWF, Ed Thornley, W6RXD, Paul Weisz, K6YQ, and Ralph Clark, KA6AVF.

## MISCELLANEOUS INFORMATION

by Bill Dews, K6AWO

The TRW ARC is starting a subscription to the Ham Re-Peater, a local classified ad flier. The current edition has 5 pages of ads, and ads are only \$2.00. It looks like a good method to sell equipment, as the ads are very inexpensive and essentially all advertizers (and presumably readers) are from California, thus minimizing shipping costs and packing problems.

I was on vacation the 3rd of July, and was unable to attend the LAACARC meeting at the Department of Water and Power in downtown Los Angeles. Bill Ivey said he would attend, and I'll will be looking forward to his report (Bill couldn't attend, either - Ed.). With the cost of gas and the 40 mile round trip to attend the council meeting, I'll believe I'll give notice so that someone closer to the DWP may represent our club. I was the representative for the two years that I was president, and stayed on this year. They meet every other month, so only 6 meetings a year. How about someone picking up this important position for the club?

Well, we have 60 days before the club dues are due. Please send a check to Jim Hill, S-792. TRW ARC membership is still a low \$4.00 from Oct 1 to Sept 30, and Associate membership is still \$5.00. The TRW retiree only pays \$2.00 to cover US postage. Please get your dues paid early. IMPORTANT: TRW employees should include their employee number, mail station, and extension. Others should include their QTH and phone number. Staple the check to a 8 1/2 x 11 if it is sent in a company mailing envelope to avoid possible loss (an envelope with just a check appears to be empty).

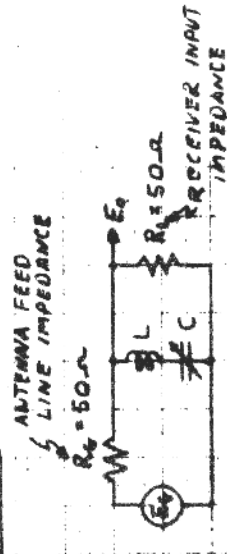
## A NOTCH FILTER

by Bob Hume, WB6AQF.

During Field Day, 20 and 40 fone had a severe overload problem caused by the 20 and 40 CW stations. The notch filter on the next page may help to prevent this situation from reoccurring during the 1980 Field Day. Bob has a 10 page document with an analysis and computer program; contact him or Jim Hill for a copy. If you want to try something else, Jim has a HP 9830A computer program to calculate the response of any passive ladder network (parallel RLC circuits may be used for any element in the circuit), and transformers may also be included. Contact Jim for info.

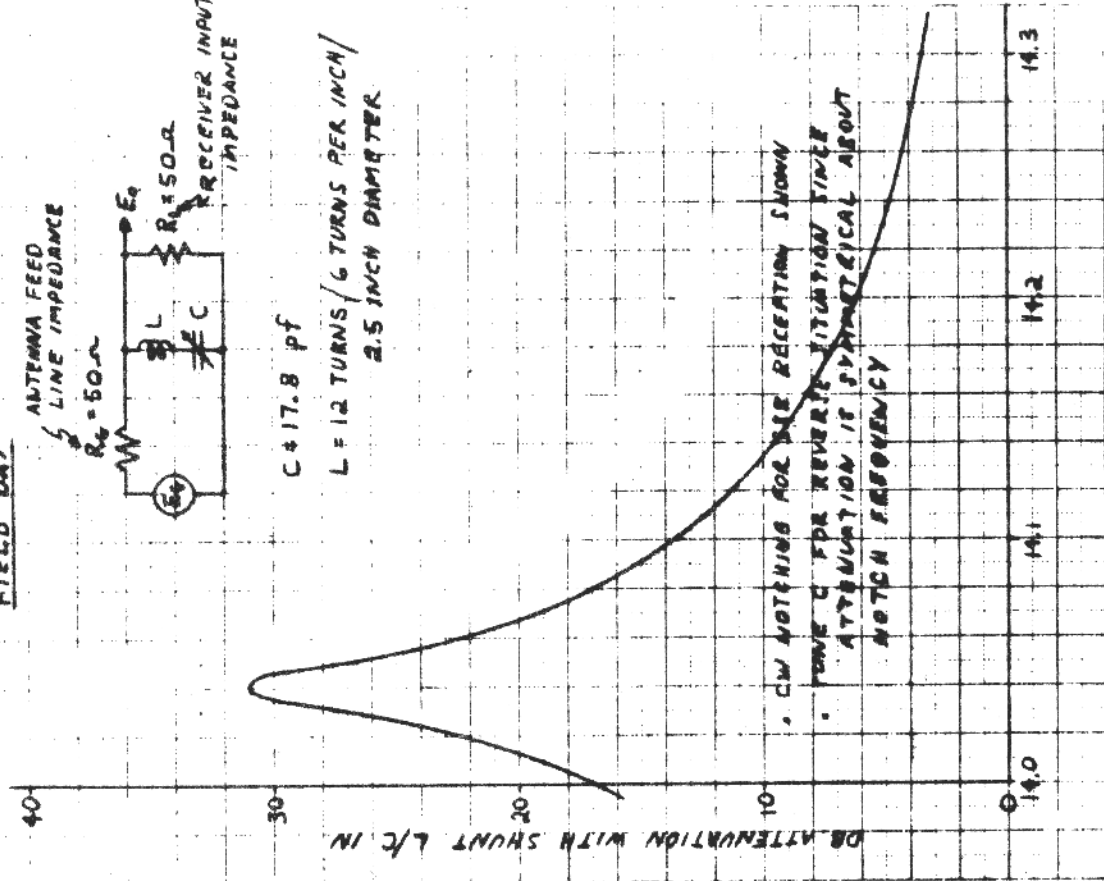
14 MHz RECEIVER NOTCH FILTER TO PREVENT  
CW/SSB CROSSTMODE OVERLOADING ON

FIELD DAY



$C = 17.8 \text{ pf}$

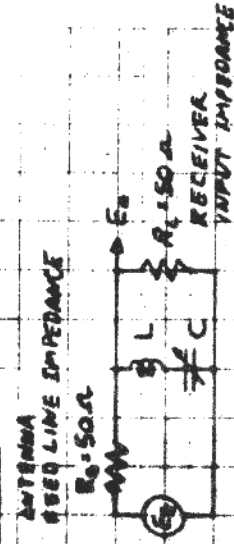
$L = 12 \text{ TURNS / 6 TURNS PER INCH /}$   
 $2.5 \text{ INCH DIAMETER}$



• CW NOTCHING FOR SSB RECEPTION SHOWN  
• TUNE C FOR REVERSE SITUATION SINCE  
ATTENUATION IS SYMMETRICAL ABOUT  
NOTCH FREQUENCY

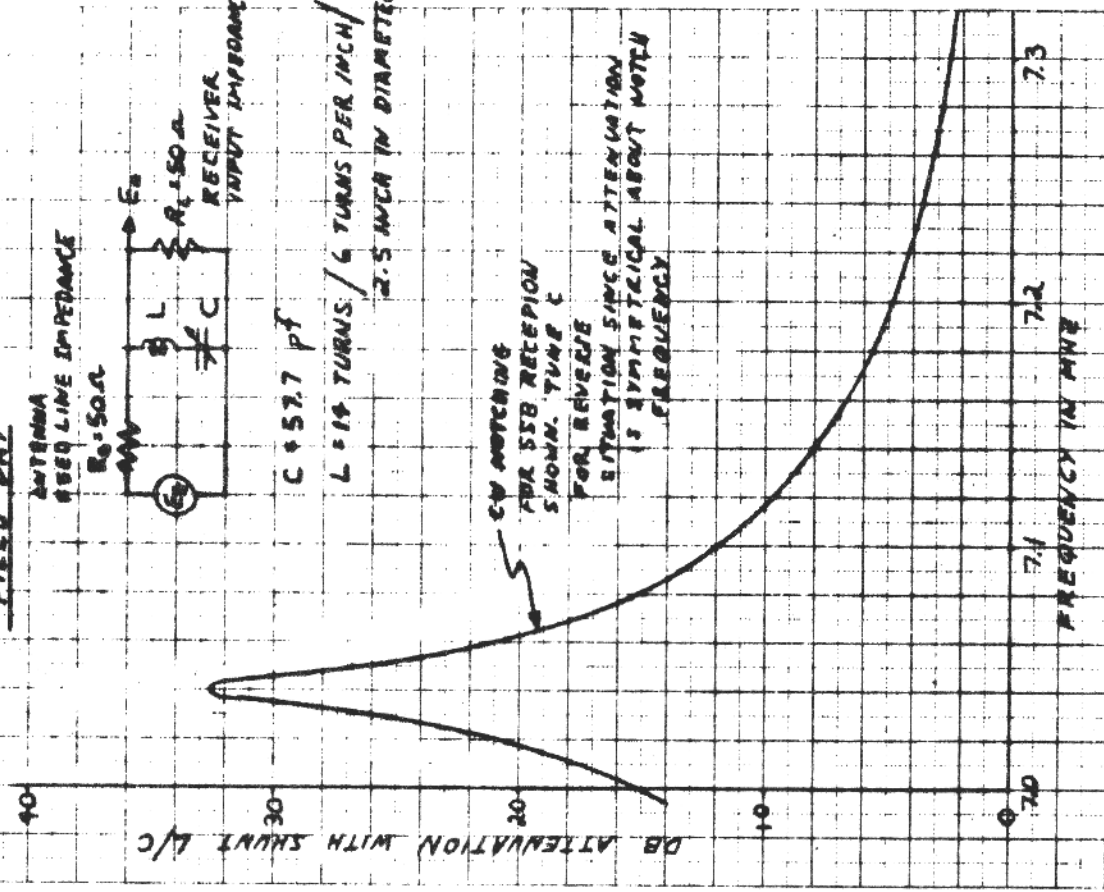
7 MHz RECEIVER NOTCH FILTER TO PREVENT  
CW/SSB CROSSTMODE OVERLOADING ON

FIELD DAY



$C = 57.7 \text{ pf}$

$L = 14 \text{ TURNS / 6 TURNS PER INCH /}$   
 $2.5 \text{ INCH DIAMETER}$



• CW NOTCHING  
FOR SSB RECEPTION  
SHOWN. TUNE C  
FOR REVERSE  
SITUATION SINCE ATTENUATION  
IS SYMMETRICAL ABOUT NOTCH  
FREQUENCY

TRW ARC EXECUTIVE BOARD MEETING --- Held Friday, July 13, 1979 by Al Lee, acting secretary

The meeting was called to order at 12:10 PM. In attendance were Ivey, Lee, Hill, Gilmore, Dews, and Schrecengost. On vacation were Erb, Komatsu, and Ornellas. Jim Hill will publish the next edition of Cross Talk in Erb's absence.

Bill Ivey, WA6QET reported SEA activity day for last year was considered a success and for this year a picnic is being planned to be held in Soledad Canyon on September 15th. They need clubs to volunteer to assist. The hiking club has volunteered to provide and direct hikes to points of interest. The question is, should we offer to provide communications for the various events and in case of emergencies? No motion was made.

Jim Hill, W6IVW moved that we subscribe to be the Re-Peater publication. The cost is \$2.00 per year. Motion seconded by Schrek., recommended by Dews. Motion carried.

Al Lee, W6KQI reported that the program for the July 25 noon meeting will be Dr. Norm Chalfin K6GPX from JPL who will present a discussion with slides on Oscar. The meeting is to be held in R5/1138.

A General Class training course should start around the middle of August. Contact Al Lee on ext. 61673 if interested.

Woody Ornellas, AA600 was not present to discuss the status of the authorized purchase of a club keyer.

Many QSTs were donated to the club which will be used to fill in the missing issues in the clubs collection and the remainder will be sold at the swapmeets. Action Item: Schrek and Gilmore will contact Paul Weisz (club librarian) about including STs into our collection.

A motion was made by Bill Dews, K6AWO to reimburse Al Lee for the gas used to pickup and return the tower used on field day that was loaned by Nelson Hayes, W6VBB. The rate should be the same as used by the company (17¢/mile). The mileage comes to 140 miles total. The motion was seconded by Schrek and passed.

A T-Hunt progress report by Dave Gilmore, WB6IDJ who demonstrated the audio driver for the hidden transmitter. The transmitter requires more work.

A swap meet duty roster was passed out including a task description by Bill Schrek., WA6EVS. Copies are to be given to everyone who has volunteered so far.

The membership drive by Bill Dews, K6AWO continues. He gives the new names to Jim Hill who passes them on to Frank Halligan who updates the membership files and provides copies.

Meeting adjourned at 13:03.

#### TREASURERS REPORT - June 1979

by Jim Hill, Treasurer

Balance on hand - June 4, 1979		Balance on hand - July 12, 1979	
Checking Account	652.44	Checking Account	621.34
Credit Union Shares	154.66	Credit Union Shares	154.66
Total	807.10	Total	776.00
Expenses		Income	
Swap Meet	70.03	Swap Meet	76.15
Door Prize	30.22	Door Prize Raffle	21.00
Field Day	17.77	QSL Card Fund	5.40
Cross Talk	37.21	Sale of donated QST's	9.00
Speakers Lunch	6.78	Membership (new & renewal)	19.25
Total	162.01	Total	130.80

#### SEA ACTIVITY DAY

by Dave Gilmore

Members with hand held radios are requested to bring them to the TRW SEA picnic. A hike to a local gold mine will be sponsored by the Wilderness Club, and the TRW ARC could supply communications between the hikers and the picnic grounds. Due to the size of the area and the number of employees expected to attend, members with radios may be able to render services to their fellow employees.

#### GOING OUT OF BUSINESS SALE

Electro Tone Corp., 1814A Colorado Ave. (immediately behind the wrought iron shop), Santa Monica, 829-4150, is going out of business, and there is a sale of electronic parts, products, equipment, work benches, etc., on Saturday, August 4, 1979 from 9 AM to 2 PM.