



CROSSTALK



News Bulletin of the TRW Amateur Radio Club

Member, American Radio Relay League

JUNE 1985

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

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

CALENDAR FOR JUNE AND JULY

!!!!!!! NOTICE: THE JUNE TRW/ARC SWAPMEET WILL NOT CONFLICT WITH FIELD DAY! SWAPMEET WILL BE SATURDAY, JUNE 29 !!!!!!!

Fri,Sat,Sun June 21,22,23

Field Day Weekend! Come up and visit or operate or log! Friendship Park on the east end of Palos Verdes Peninsula overlooking the L.A. Harbor. South on Harbor Fwy to Gaffey, south on Gaffey to 9th, west on 9th to just past Western, left turn into park and keep driving up, up, up to the very top of the park. SEE YOU THERE!!

Tuesday June 25, noon

Club Meeting, R4/1041. Speaker will be R. Dale Jensen, K6ZTI, our own Field Day Chairman and he will wrap up the Field Day activities for us!

aturday June 29, 8-11am

Swapmeet, Northwest corner of Compton/Marine and Aviation behind the Chevron station.

uesday July 4, all day!

209th Anniversary of **Independence Day!** Hope yours is "safe and sane."

Tuesday July 9, after work

Executive Board Meeting. All members are welcome!

Monday July 15, noon

Third Club Picnic! El Nido Park, 182nd between Hawthorne and Inglewood. Good Food!

Saturday July 27, 8-11am

Swapmeet

Tuesday July 30, noon

Club Meeting, R4/1041. Speaker will be Fried Heyn, who will have just returned from ARRL Directors meeting in Connecticut.

From the Library

George Lee, W6IOW

What's in the June issues of:

QST: Radial System for Ground Mounted Verticals
Designing a 2 M Portable Yagi

HR: VCO Uses Ceramic Resonators
A High Stability BFO for Xcvr Applications
A Compact IF Sweep Generator
Designing Yagis with a Commodore 64

CQ: VHF Issue:
A Low Noise GaAsFET Preamp for 420 MHz
Review of Heathkit Auto-Tuner SA-2500
How to Build a 2 to 10 M Repeater System

73: RTTY Issue:
Tune-in the TU-1000 (60 & 100 wpm, 170 or 850 Hz shift)
AFSK & Ye Shall Xcve (Xtal controlled synthesized AFSK oscillator)

Our Librarian was out of town the early part of May, so here is a listing for the May issues:

QST: Multiband Trap & Parallel HF Dipoles - A Comparison
A Remotely Switched Inverted-L Antenna
Review of the IC-271A Multimode Xcvr
Review of the Ten-Tec Century/22 HF CW Xcvr

CQ: Review of the Ten-Tec Century 22 Xcvr
Review of the Kenwood TR-2600 2M Handheld
Review of the AEA Map-64/2 upatch & TI-1 Tuning Indicator

73: Antenna Issue:
Discover the Discone (a broadband antenna)
The Rubber Duck Debunked (pick up >7 dB of signal)
The No Baloney Lunch Box (antenna tuner)
Rotate the Bobtail Curtain
Phase the Nation (Phasing 2-6BTV Verticals)

HR: Antenna Issue
Active Antenna Covers 0.5 to 30 MHz
The End-Fed 8JK: a switchable vertical array
Feeding Phased Arrays
A sloping Terminated Vee Beam

The above magazines plus Icom and Kenwood Newsletters, Satellite Journal and World Radio are available in the Club Ham Shack.

#####

Only as you know yourself can your brain serve you as a sharp and efficient tool. Know your own failings, passions, and prejudices so you can separate them from what you see.

Bernard M. Baruch



It is with great sadness that we announce that Fred Apper, N6JDO, is a Silent Key. Fred was always seen at the meetings even though he was more active on 220 MHz. Fred had been having problems with his eyesight and was found to have cancer around the first of the year. Fred will be missed by all of us who knew him as a concerned and courteous Amateur Radio operator.

Gary Komatsu, K6HPD, remains very ill even though he is now out of the hospital. We wish Gary every strength to deal with his illness and wish him a speedy recovery.

May and June were active months for new members, so welcome to the Club:

Serge Miller, WA6BJV, holder of an Advanced Class ticket and has been a ham since 1958.

Barry Levy, not yet a ham but ready, willing and able to help out at the Swapmeet and possibly Field Day.

Constance Flammer, N6KMP, an Associate Member living out in Fountain Valley and has been a ham since '83.

Edwin Houston, N4JMR, who will have a little trouble getting into the repeater from his home in Winterhaven, Florida, but will be happy to serve as a relay on HF.

David Cross, WB5VFK, holder of an Advanced ticket and a ham for 9 years.

Ronald Ogren, KB6DXI, a Redondo Beach resident with a General ticket and has been a ham for a year.

Rose Smiljanich, KB6DTR, who has just become a ham and has a Technician license.

Re-uping after a few years away is Bill Fisher, K6GZF, who has been a ham for 44 years(!) and can usually be heard on the morning 2 meter "drive to work" net.

Also back in the fold is George Harter, WB6JSF, licensed for 20 years and better known as Mr. Harter, Vice President and Assistant General Manager, Electronics and Defense Sector.

WELCOME ABOARD ONE AND ALL!



The meeting was called to order at 1730 PDT. TRW/ARC President Walt Pearson asked for a crew to clean up the shack and adjacent area. Dale Jensen, Bill Dews, Jim Wike and Walt volunteered to do the job. Joe O'Brien recruited Dale Jensen to be the next speaker at the 25th Club Meeting (Tuesday, noon, R4/1041). Dale will talk about Field Day held the weekend before the meeting. The minutes of the last meeting were late for publishing in the last Crosstalk and will appear in the June issue. Paul Herbert gave the Club's financial status stating that all expenses were approximately on budget and that income was slightly higher than expected from the Swapmeet. Bill Ivey presented handouts on changes to be made to the Club Constitution and By-Laws as required by SEA. Jim Wike reminded the meeting of the picnic to be held on Wednesday 12 June. On the request of Sammi Komatsu, Jim picked up some items for the picnics and Field Day that Gary Komatsu still had. Jim stated that Gary was home from the hospital but was not receiving visitors and that he was still very ill. Everyone expressed their concern and wish Gary a speedy recovery. Jim brought to Paul Herbert's attention a mistake on the budget for the Club picnics and Paul stated that he would look into it. Bill Daley reported on the LAACARC activities, including it's financial status. He handed over a set of LAACARC publications (list of exams, application forms, L.A. areas cable TV firms, Amateur frequency chart, etc.) to Walt. Bill reported that Orange County wants to impose a 45 foot tower height limit. This may be amended to 70 feet. They also want to levy a \$1200 "users fee" on tower erected in unincorporated areas. The 12 Meter band will be opening up on June 22nd. Frequencies are 24.880 to 24.990 MHz. The lower 40 kHz is for CW and the rest is for SSB/RTTY. Bill also brought an article from the LA Times on the W6AM station. The next LAACARC meeting will be July 2nd and Bill will take with him information on the Club policies concerning the Swapmeet so that can be given to the other LA Clubs. Paul Weisz reported that 1007 people have registered for the SW Division Convention. Originally it was expected that 4000 people would attend but based on early registration 3000 are now expected. 760 of the 800 available seats for the Saturday evening Banquet have been sold. The Banquet will be at 7:00 pm and seating will be assigned according to when the Banquet ticket was purchased. Paul is still working on door prizes for the convention. Bill Dews reported that the Club now has 150 paid members. Mel Erb stated that there has been no change in QSL Card status; there are still plenty of cards left. Jim Cox said that the repairs to the W6TRW repeater are complete and the only thing holding up the installation is the availability of the test equipment to perform the final adjustments. Jim reported that the repeater installation is very clean and should pose no problems for the COR audit. He will post the names and phone numbers of the three people who have responsibility for the repeater at the site. Librarian George Lee sent information listing the articles in the May and June issues of the ham magazines. Field Day coordinator Dale Jensen reported that our 20 Meter CW captain had to cancel as his daughter is getting married that weekend. The Field Day location has been confirmed by phone and is Friendship Park. The Park custodian is worried about damage to a newly installed sprinkler system. It was suggested that stakes with ribbons be used to identify the sprinkler locations. Dale stated that the truck, generator, extension cords and rope for guying the antennas is all arranged. We do, however, need trailers or tents to be used as operating locations. Dale also needs help with arranging the food parties -- only one meal is presently covered. Chris Wachs reported that he won the LA area in the VHF contest held earlier in the year and wants to get more members on the air on 2 Meter SSB. He would like to arrange a group purchase of transverters for those club members interested. Meeting was adjourned at 1920 PDT.

You must have been on another planet if you haven't heard by now that Don Wallace, W6AM, has become a Silent Key. There have been articles about him in the LA Times, South by Daily Breeze, World Radio and in the ARRL bulletins transmitted from W1AW. Probably the most interesting of the articles I have seen is the one completely filling the front page of the So. Calif. DX Club Bulletin which was adapted from a 1981 article in QST, reprinted here.

Don C. Wallace, a radio pioneer, dean of DXers, Charter Member and Past President of the Southern California DX Club, died Saturday May 25 in Long Beach after suffering a stroke. He was 86.

Don Wallace, W6AM, in his 86 years bridged remarkable historical periods in which his radio interests helped him to play vital roles. His power of positive thinking turned what might have been liabilities for others into assets for him.

DXing in the grand manner for then 60C in 1912 was from Long Beach to Piedmont, California, some 400 miles away. Even then his admiration for long wires was evident with an antenna three blocks long, strung over two power lines on 80 foot poles! (The chief operator of the nearby Marconi station had to take turns with Don to use the airwaves.) That 1910-1916 station used a homemade receiver. Don secured copies of Armstrong's patents and a test tube and made all circuits oscillate, i.e., tuned antenna, tuned grid, tuned filament return from the grid and tuned filament return from the plate. He felt that we never have duplicated that particular type of sensitivity and care in construction. China ship stations were so loud he could hear them in the house, some 60 feet away. The transmitter was comprised of a homemade transformer, rotary gap and an antenna meter (using an old alarm clock set of bearings.)

At the time of the First World War, 60C joined the Navy and almost immediately began operating NPG in San Francisco, a fulfillment of his still-boyhood dream operating the 300 kW Bolinas Marconi transpacific station. Though still a teenager, Don was placed in charge of the 36 operators onboard President Wilson's Peace Conference ship, the U.S.S. George Washington, which became a classic communications center on trips to and from France. On the staff were famous radio men of the era, such as Beverage of Beverage wire antenna fame.

In 1922 Don held the call 9ZT in Minneapolis. His station used a water-cooled tube, tube rectifiers and a separate pole line transformer; he was heard in 16 countries. His 1923 station was awarded the Hoover Radio Cup for best in the USA. In the early '20s 9ZT worked Leon DeLoy, 8AB (France) on 110 meters - Leon's farthest contact. When WAC was started in this period 9ZT was one of the first four USA charter members. About that time the old Federal Radio Commission issued Don the call 9XAX "...anytime, any power, any wave length."

Always a high speed CW operator, Don won numerous cups, plaques and awards. He helped Press Wireless locate their west coast transpacific receiving station. Later, when Press Wireless moved back to San Francisco, Don bought the 104 acre, 1234 foot high location, with antennas and buildings, on the Palos Verdes Peninsula. W6AM now has 18 rhombic directions on the remaining 24 acres. W6AM was a well known fixture on the DXCC Honor Roll and often occupied the coveted number 1 position. Several years ago when Headquarters announced a \$25 plaque for those who could demonstrate that they had at some time been in the number 1 position, Don wrote Bob White at Hq. to go ahead and send him the plaques he was titled to and bill him later. The conservative W1CW wrote Don first and asked him if he really wanted to panel the W6AM radio room with 64 plaques at a cost of \$1775! Don settled for two representative plaques, one for phone and one cw.

Don's lifelong dream came true, and he was quoted as saying "the reality is even better than the dream."

President Walt Pearson called the meeting to order. He announced that the next speaker will be Ken Andrew of Tektronix who will demonstrate the uses of an RF Spectrum Analyzer. The Club will try to get permission to allow us to bring in our handheld transceivers so that they can be checked out by Mr. Andrew. The minutes of the last Executive Board Meeting were accepted as printed in the Crosstalk. Treasurer Paul Herbert stated that the Club finances are in good shape but the costs of the new base for the tower will not be able to be covered entirely by the Club and that assistance will be requested from SEA. Activities Manager Jim Wike reported that expenditures for the Club picnic were held to within the budget. Some confusion over the date of the next picnic was cleared up when it was noted that the picnic would be Wednesday, 12 June. Jim had a conflict on Tuesday, June 11 which was the date he thought the picnic would be. Trustee Bob Hume stated that the 40 Meter Quad Antenna was assembled and ready to be put up. Cost for the base for the new tower is estimated to be \$1000 to \$1100. Convention Delegate Paul Weisz discussed the upcoming convention to be held on the Queen Mary, August 9-11. 781 people have taken advantage of the "early bird" registration and 3000 to 4000 people are expected to attend. Regretfully, Gary Komatsu is ill again and names of some possible members to replace him as Alternate Convention Delegate were brought up. Paul passed on a copy of the Technical Sessions to be held at the convention to John Keller. The Hughes El Segundo ARC has put together a very good program of Technical Sessions for the Convention. Membership Chairman Bill Dews reported that the TRW/ARC has 144 members. Walt Pearson stated that a consolidated version of the Swapmeet rules is being designed. These will be given to sellers for their signature. John Keller reported that all 3 Quad antennas for Field Day have been checked and modified as necessary to obtain a low SWR. Some hardware and coax is all that is needed. The W6AM station on the top of Palos Verdes is expected to be an open house on the last day of the convention (August 11). The meeting was adjourned at 1851 PDT.

May Swapmeet Notes

Don Resor III, N6KAW

Here we are at the end of another month and another Swapmeet. This month the traffic situation went a lot smoother, leaving no vehicles on the public streets of Aviation and Compton Boulevards. The sellers lot was about 50% full. This was expected as it was the Memorial Day weekend. We were left with a nice, quiet, small and unhurried event.

This month I was assisted by Bob Hume, KG6B, Allan Bonney, WB7PUZ, Robert Wasson, N6JDH, Chris Wachs, WA2KDL, John Keller, N6JLS, Walt Pearson, N6DZM, Bill Schrecengost, KE6LB, Paul Lukas, N6DMV, Jim Wike, W6GPE, and Dale Jensen, K6ZTI. Please forgive me if I have left anyone out as that Saturday I was rushing around like a tornado. Those listed here arrived at the unforsaken time of 5:00am! Thanks to all for a well done job. Truly a "Team Effort" once again.

As a reminder, please, sellers do not arrive before 6:00 am. Buyers are requested to not arrive before 7:00 am. By following these requests we are able to keep traffic flowing smoothly, preventing long lines on public streets and the frazzled nerves that go along with them. This month's swapmeet raffle award goes to Dale Jensen, K6ZTI. Dale will be given a check for \$10 to be applied to a purchase of his choice at the next Swapmeet. Congratulations Dale!

I guess this wraps up another month for the W6TRW Swapmeet. Keep the spirit! I intend to keep the Swapmeet on its toes and ship shape in the hopes that it will be a internationally known event that will continue. Everyone take it easy and take care; see you all next month. 73.

Tidbits from the Jolly Little S....!

I don't know what it takes to get Amateurs to accept free food but it must be a good solid arm twist. The first picnic was a little on the cool side and I can see why there were few 807's disappearing, but Jim and Luella's Chili Dogs were enough to warm you up (and keep you going the rest of the day, too). Only 15 members showed up for that one, and only 17 members showed up for the last one where the warm weather made the 807's go down just right and helped smooth the chili dogs as well. Jim says that next month we might have cold cuts and some make your own sandwiches with potato salad and chips to round things out.

It looks like time and stress are taking their toll on TRW/ARC members. Please refer to the members column for all the goings on, but three I would like to mention here are Gary Komatsu, Don Resor and myself. Gary has been very ill recently and is now home from the hospital where he was for about a month, however, he is not receiving visitors. Gary has always been a pusher and active member of the TRW/ARC for as long as anyone can remember. Field Day was always his "bag" and he will be sorely missed this year if he is not well enough to attend. I would like to suggest the each member send Gary a get well card, and do it NOW! His address is:

Gary Komatsu, K6HPD
1553 W. 184th Street
Gardena, CA. 90248

Don Resor, the TRW/ARC Swapmeet Manager, has been having problems keeping his blood pressure down to safe levels, and I personally took him to the doctor when he started having chest pains, as his car refuses to be fixed properly since the last accident (not his fault). The TRW/ARC is getting a lot of heat from SEA to clean up our act concerning the Swapmeet, and we have, but Don has taken a lot of the pressure. Another suggestion: Let's show Don that we are behind him completely by not waiting to have him call us to volunteer to help at the Swapmeet. Call him and volunteer for an extra weekend so that he has a good size group to work with who have been at the Swapmeet before and know what they are doing. And I don't say these things without being there myself at the last two Swapmeets at 5:30 am to clear the lot and screen the sellers. Whata ya say guys?

Lastly, there's myself. I am presently taking medication for Premature Ventricular Contractions (PVCs), also known as an irregular heartbeat, which are usually caused by stress or something physical. The doctor has ruled out the physical so stress is the culprit. Needless to say, meeting monthly deadlines is a tad bit stressful, so if there is anyone that would like to help out, with the idea of eventually taking over the duties of Editor, I will be more than willing to work with you until you are comfortable with it. I will say that a good working knowledge of a word processing program does make the job a lot easier and is almost a prerequisite for the job but it is not mandatory.

I hope you all have a pleasant 4th of July. It looks like taking a personal holiday on Friday the 5th will be the thing to do. Please be careful in your travel and take a radio along and make new friends!

Do you remember that VHF contest that Club members participated in last January? Well, we won't talk about who was the person who came in last in the Los Angeles area, however, the person who came in first and received a very nice plaque to recognize the achievement was our own former Vice President, Chris Wachs, WA2KDL. Congratulations Chris! Chris would also like to see more participation in the VHF contest and is full of ideas for doing it with as little effect on the pocketbook as possible. If you are thinking of getting involved in a contest that you can participate in from the comfort of your home you might want to give Chris a call at work at (213)371-4705.

Bill Dews would like to remind the Club members that if you need to get in touch with an Executive Board or Staff

member, please look on the back of the most recent Crosstalk as we go to special pains to make sure that the information is the most accurate and up to date. If members are moving, they should get in touch with Bill as he is responsible for updating the Club roster and informing Mail Services of changes to the Club mailing. Some members may be interested in this tidbit that comes from the Los Angeles Area Council of Amateur Radio Clubs (LAACARC). If you have wondered how you can operate from the Queen Mary Amateur Radio Station, W6RO, you can call (213)435-4777 to find out if the radio room is open, where you can park for free while you are operating, and how to come aboard without having to pay. The Long Beach club that operates the station is always looking for good operators.

A distressing tidbit of information is that Radio King on Crenshaw Blvd by the Torrance airport has apparently folded. This is particularly distressing to me because it was through the generosity of the people at Radio King that I had a place to be taught the Morse Code and theory necessary to get my ham license. I guess we all need to look at how we go about obtaining our equipment and see if saving a few dollars and buying by mail from out of state is worth it in the long run or should we spend the money and support a local store so that we have the convenience of running down and quickly getting a connector or adapter we need to get a rig on the air.



General Meeting 28 May 1985

Paul Lukas, N6DMV

The Club meeting was held at an offsite location due to the inability to get Security permission to bring handheld transceivers into TRW buildings. The technical portion of the meeting was devoted to the demonstration of the Tektronix RF Spectrum Analyzer. Ken Andrew, Tektronix Communication Specialist, first presented a video tape about Spectrum Analyzers in general and then demonstrated the capabilities of the unit that he brought with him. Ken then checked the handheld transceivers that members had brought with them for frequency accuracy, deviation, spurious response, PLL output, and harmonic content. The presentation was very impressive and as the door prizes were drawn Ken set up to check out a couple of the mobile rigs as members drove their cars to the rear of the meeting place. 13 members attended the meeting.

FCC has authorized Spread Spectrum techniques in the Amateur Service, above 420 MHz. The report and order in docket 81 414, released on May 24, becomes effective in months. This delay is intended to encourage the amateur community to develop voluntary standards for the use of Spread Spectrum. In the interim, special temporary authorizations will be available to interested amateurs. More information can be found in the ARRL Letter.

FCC has proposed to allow F2A telegraphy on Amateur frequencies between 29.5 and 29.7 MHz. The FCC released the Notice of Proposed Rulemaking in Docket 85 168 on May 31, 1985. The commission's action comes as a result of an ARRL petition requesting FM telegraphy in that 10 Meter repeater subband so that FM repeaters could identify in that mode. The Commission invites comments concerning adverse effects of the proposal. Comments must be filed by August 14. Details will appear in the ARRL Letter and QST.

May was interesting for propagation watchers. The solar flux peaked at 93, one point below the high for the year to date. The low was 68 on May 31 and June 1. The most recent 68 before these came in July, 1976, the first month of cycle WWQM. With this wide range of flux values, one would expect high levels of geomagnetic activity, but the May average for the A index was only 10.6. This is one of the lowest in the entire cycle to date.

Sporadic E skip is increasing markedly on 28 and 50 MHz. This is not yet the high density variety that will make for very short skip later this month, but it brought the 10 and 6 meter bands back to life, as word got around. No 144 MHz skip has been reported yet, but conditions more favorable for this will be showing up later in June, and in July.

Summer E skip is not directly related to high solar or sunspot numbers, and timing cannot be predicted accurately. Transatlantic contacts were made fairly often in the low years of Cycle 20, mainly in June and July. The most likely time appeared to be mid morning, eastern time, but evening openings were observed. These would be most favorable for 50 MHz transatlantic work as the European Amateurs having 50 MHz permits are mostly restricted to after 2000 hours universal time. 100 British permits have been issued, and at least 25 Norwegians now have similar authorization. Other countries are likely to be represented as TV is gradually moving to higher frequencies. American sunspot numbers for May 23 through 29 were between 0 and 27 with a mean of 11.7

If one tells the truth, one is sure sooner or later to be found out.

Oscar Wilde

ATTENTION AMATEUR RADIO CLUBS

The TRW/ARC sends the Crosstalk to many clubs on an exchange basis. We have been having a problem recently enjoying these newsletters as the address on the label has been confusing to the mail room personnel and the delivery of the newsletter has been delayed. A company the size of TRW moves a lot of mail in one day and anything that can be done to speed it along is greatly appreciated. So, would the person in charge of sending your newsletter to us please make sure that the mailing address clearly states "Amateur Radio Club" and not "C.R.C." The word "club" is the key as it gets our mail going in the right direction right from the start and we get to enjoy your news while it is still fresh and if you are looking for some communicator help, we get the info to our members while there is still time to help you out. Thanks for helping us and we hope we can help you in the future.

Picnic (The Second) Report

John Keller, N6JLS

The preceeding weekend was warm and sunny so expectations of the weather holding through to the middle of the week for the second picnic were high and we were not disappointed. The weather was a bit mixed with some overcast but the day was warm and pleasant for a picnic. Seventeen members made an appearance, including Walt Pearson, Joe O'Brien, Paul Lukas, Jim and Luella Wike, Dave Burdett, Joe Zboril, Pat Dobbins, Rich Robertson, Herb Glead, Stan Johnson, Bill Dews, Dale Jensen, Norm, Helen and Dave Stockwell, John Keller and Mike Smiljanich. Conversation was only interrupted by the downing of another swig of an 807 or soft drink or the bite of another Chili Dog guaranteed to fire your furnace. Camaraderie was the word of the day and all had a good time and no one went away hungry. Just a reminder, so put it on your calendar now, the next picnic will be on Monday, July 15th, at El Nido Park on 182nd Street between Inglewood Ave and Hawthorne Blvd. See you there!

If at first you don't succeed, you'll get a lot of advice

Another Opportunity to Excel

Paul Weisz, K6YQ

The TRW/ARC is a financial sponsor of the 1985 Southwest Division Convention on the Queen Mary this August, and is also responsible for the Awards and Prizes activity for the convention. Plans are now complete, and we are well along in acquiring the large number of prizes that will be given away.

We need about ten TRW/ARC members to help at the convention on the 8th, 9th and 10th of August. Their task will be to draw the winning tickets from the drum for the hourly prizes, post the winning ticket numbers and see that the lucky winners get their prizes. Some help will also be needed at the Banquet on Saturday evening, where the Grand Prizes will be awarded. Most of the work will be performed on Saturday, August 9th. While there is no financial return for working at the convention (we must all pay our way in-\$6 per head if you haven't already registered), it is certainly rewarding to give prizes to the winners, and sometimes interesting to hear the comments of those not so fortunate. Please join us. Call me at (213)217-6267 during working hours for more information. Please call now, August 8,9,10 will be upon us before we know it, and the early callers should be able to pick the time they want to work.

A clothing manufacturer turned out thousands of sweat shirts with the words "Money Isn't Everything" on them. He went bankrupt.

Thank You

Bill Dews, K6AWO

I want to thank all of you who circled the few questions that are on the membership application. From that information we create the lists of people that the Swapmeet Manager uses to get helpers for the monthly Swapmeet, and the Field Day Chairman uses to fill out the operating stations for our annual emergency exercise and contest. You all really surprised me that so many are willing to help at the Swapmeet. Please use the current Crosstalk for up-to-date phone numbers and mail stations of the Club Officers. If you have questions concerning the Club, just call someone on the list on the backpage and we can get an answer for you.