



CROSSTALK

News Bulletin of the TRW Amateur Radio Club

Member, American Radio Relay League

APRIL 1986

**** 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 APRIL AND MAY

Wednesday	Each Wednesday, noon	Emergency Communications Team Check-in. 145.32 via repeater and simplex
Wednesday	Each Wednesday, 8pm	TRW/ARC Net on 145.32 MHz. Westlink tape, checkins, roundtable. Net Control, Don, N6KAW
Friday	Each Friday, 7-8am	Club Breakfast, S Cafeteria, VERY informal, good breakfast for less than \$2.00!!
Saturday	Apr 26, 8-11am	Swapmeet, Don't forget the new hours for sellers! Lot opens at 7:00am - no earlier! Northwest corner of Aviation and Compton/Marine behind the Standard station.
Tuesday	Apr 29, noon	Club Meeting, R4/1041. Speaker will be Butch Mason, W6KAG. Butch will talk about the changes he has experienced since the early days of SSB!!
Tuesday	May 6, noon	First Club Picnic, El Nido Park, on 182nd west of Hawthorne. Directions inside!
Wednesday	May 11, all day	Mother's Day
Wednesday	May 13, after work	Executive Board Meeting. All members are welcome! At Shakey's, Manhattan Beach, 2000 N. Sepulveda Blvd., just south of Marine Ave.
Tuesday	May 26, all day	Memorial Day, TRW Company Holiday. Drive carefully and enjoy the three day weekend!
Tuesday	May 27, noon	Club Meeting, R4/1041.
Saturday	May 31, 8-11am	Swapmeet

**** REMINDER: THE TRW/ARC SWAPMEET IN JUNE WILL BE ON THE 3RD WEEKEND, JUNE 21ST, AS FIELD DAY IS THE 4TH WEEKEND ****

Tidbits from the Jolly Little S...!

For those of you who have not heard yet IT'S A GIRL!! Madeline Diane was born at 10:47 pm on April 2nd at Little Company of Mary Hospital, weighing in at 7lbs. 2oz. and measuring 20 inches. Mother and daughter are doing well and Dad (oooooh that sounds nice!) couldn't be more proud. This lovely little harmonic has not put her hand to a key yet but I think I hear her cry in Morse code.

For those of you who still want to keep in touch with Bill Rodner, K6AWS, up in Idaho land, he can be found on 3.08 MHz + QRM on Monday, Wednesday and Friday shortly before noon. Say hello for me while you are at it. General Dynamics Amateur Radio Club out in Pomona has started up a Swapmeet. They are holding it every 2nd Saturday for 7:30 to 11:30 AM at the GD Valley System Division. Directions are off I-10 take Haven Avenue off ramp north to Fourth in Rancho Cucamonga and turn right, 1/2 block to Swapmeet. Everyone is welcome to buy or sell and coffee, donuts and sodas are available. Restrooms are also provided. Talk-in on 146.91, WB6KQY.

info write P.O. Box 1818, Pomona, CA. 91767 or call (949) 868-6180.

Wanted -- For Sale -- Freebies

Again a stolen piece of equipment is reported. John, WA6LOD, with the Hughes El Segundo ARC reports that his Kenwood 7950 2 Meter Transceiver was stolen. Serial number is 3030009 and it has a receiver that is dead. If you find this unit please contact the El Segundo Police Department.

TRW/ARC Picnic

It's that time of year again!! By the time we have our first picnic for 1986, Daylight Savings Time will be in effect and the days are already noticeably longer. Another summer is about to descend up Southern California and what better way to celebrate the fact than with our monthly summer Club Picnic. The picnics will again be held at El Nido Park, just off of 182nd Street between Inglewood Ave. and Hawthorne Blvd. When coming from Inglewood Ave., cross the railroad tracks and make the first right you can on Mansel Ave. and then another immediate right on to Kingsdale Ave. The park parking lot will be on your right. Coming from Hawthorne Blvd., Mansel Ave. is the third street on your left, the rest of the directions are the same.

Last year Jim and Luella Wike did a magnificent job of presenting a feast if not for kings then at least for hams!! The food was always good and only the real late comers had difficulty getting a tummy full. Here is your chance to get your dues back and enjoy a meal and give your fellow members an eyeball QSO.

Join us for the first picnic, Tuesday, May 6th, at Noon in El Nido Park. See you there!!



Attending the meeting were Bob Baldwin, Frank Cartier, Bill Daley, Bill Dews, Paul Herbert, Bob Hume, Dale Jensen, John Keller, Walt Pearson, Don Resor Jr., Dave Stockwell and Chris Wachs. President Chris Wachs opened the meeting and presented the bad news about the allocation of funds by SEA to the TRW/ARC. Not only is it less than asked for, but it is less than last years amount. Chris asked the Board and Staff to think up ideas for increasing the Club revenue in light of the SEA cutbacks. Chris reported that George Lee suggested a "kitty" at the Club Picnics for donations. Paul Herbert stated that he will contact Bobbie Love concerning the charging of admission to the Swapmeet. Treasurer Dave Stockwell then presented the revised budget to reflect the loss of SEA funds. A motion to accept the budget was seconded. Several items came up in the ensuing discussion. Charge sellers for admission into the Swapmeet; \$1 for the first spot, \$5 for the second spot and \$10 for the "key" row end spots. It was advised that a restroom would have to be supplied if admission is charged (California Law). The question arose as to how much more work will be involved (state/city required paperwork and money handling). Walt stated that the TRW legal department has told him that laws covering swapmeets in California have changed recently. There would be a discount or no charge for sellers spots to TRW/ARC members. The last possibility was to raise dues. The budget was voted and passed. Chris set up a committee to evaluate charging sellers for spots at the Swapmeet and report to the Board at a later date. Named to that committee were; Paul Herbert (Chairman), Walt Pearson and Frank Cartier. Chris reported for Activities Chairman Jim Wike that the PK-80's purchased in the group buy have been received and delivered to most of the members that ordered them. The first Club Picnic of 1986 will take place on Tuesday, May 6th at Noon in El Nido Park. The park is located on 182nd Street between Inglewood Avenue and Hawthorne Blvd. Club Trustee Bob Hume reported that the guy lines have been modified so they are not resonant at 12 Meters and are ready for the tower raising. Bob moved that the Club buy a gin pole from C&A Roberts for \$68 (originally \$195). The motion was seconded, voted and passed. Bob said that it may be possible to rent out the gin pole to raise some funds. LAACARC Delegate Bill Daley reported that the next meeting of the LAACARC will be in May. Membership Chairman Bill Dews reported that the Club has 196 members. This is an all time record number. SEA Representative Paul Herbert reported that the SEA allocation for this year is 1/2 to 1/3 the amount that we have received in past years. Paul reported that special appeals can be made to the SEA board for consideration but Paul felt that the amount that could be realized would be small. Paul reported for QSL Card Manager Mel Erb that there are lots and lots of QSL cards available for members to purchase. Swapmeet Manager Frank Cartier reported that the Seller's lot was filled at the March Swapmeet. From the time the gates opened at 0700 it took 1 hour and 10 minutes to get everyone that was waiting to get in. Prices were raised on the coffee and donuts this month and no one blinked and eye. Everything was sold out by 1000. Frank requested that we have a trial Porta-Potty at the April Swapmeet. He had already cleared it with Bobbie Love and the Board also approved. Frank reminded all that the June Swapmeet will be on the 3rd weekend, not the last weekend (Field Day). Frank suggested that the Club hold an Auction in July or August to raise funds. Frank was reminded that the Hughes El Segundo ARC also has an auction and that we should not schedule ours for the same time. Dave Stockwell and Paul Herbert volunteered to help organize the auction. Technical Chairman Jim Cox dropped off a written report as he could not attend the meeting. He suggested that the Club take a "wait and see" approach concerning the audio dropout on the W6TRW repeater that does not occur

on the W6NWP repeater. Both repeaters are functioning normally and Jim switches operation from one to the other at random times. Jim expressed concern that the Emergency Communication Handheld Radios are not having their batteries properly attended. Crosstalk Editor John Keller reported that there were 5 Tuesdays in April, the deadline for Crosstalk articles was delayed by one week. ECT Coordinator Dale Jensen reported that the TRW/ARC was approached to provide communications for the Big Brothers 10K in Hermosa Beach. Dale had to turn down the request due to the fact the TRW/ARC members were not trained nor did we have enough members to properly staff the race. Dale was told that TRW would soon be having a 5K and that the race might be a good starting point. Dale said that he is still trying to come up with someone to look after the batteries in the ECT handhelds. Dale passed on to John Keller his report on the Noontime Wednesday Check-ins. Dale passed on to the board and staff the names of those persons in Hughes Security and in the Hughes ARC responsible for emergency communications at their facility. Dale said that he has worked out a liaison with the Hughes ARC to supply interested TRW/ARC members for some of their communications efforts. This will enable our members to gain experience as well as assist the Hughes organization. Their next event will be on November 8th. For Field Day, Dale is planning a special mailing like the one last year. The one last year worked very well and he hopes the response will be as good this year. Past President Walt Pearson reported that he is working on changes to the Constitution and By-Laws to bring them up to date with SEA requirements. The meeting was adjourned at 1850 PST.

INTELLECTUAL -- A person who can listen to the William Tell Overture without thinking of the Lone Ranger.

The Digital Front

Chris Wachs, WA2KD'

With many new hams joining the ranks of "Packetteers" here is a good article which appeared in the Scope, of the Palomar Amateur Radio Club and is authored by Paul Williamson, KB5MU.

HOW TO BE A LID ON PACKET RADIO

After years of practice, we all know how to be a lid on a repeater or on the low bands. With the advent of packet radio, and its new operating techniques and practices, many of us have been forced to improvise. So to help get you started, here are a few of the many tried-and-true techniques of packet lidsmanship.

Beacon. Don't bother to wait for something to beacon about, just type in whatever comes to mind. Beacon every minute or two, to insure the channel is so clogged with your message that nobody will miss it. Make your beacon as long as possible. If at all possible, beacon through a long chain of digipeaters. Don't even think of turning off the beacon when you leave the shack. And when all else fails, include a bell in your beacons. A judicious combination of these beaconing techniques could win you a place in the Lids' Hall of Fame.

Work direct on a busy channel. Make sure you always converse at length on the long haul frequencies of 145.01 and 145.05. This insures that any of the folks who need to use the digipeaters will know you are there. To be doubly sure, transmit long text files. And by all means, do it between 7 and 10 pm when the channels are the busiest.

Read long files from distant mailboxes. Again, the key is to do it during "prime time." This is best if the same files are available on a nearby mailbox on a local frequency. Don't bother to capture the file in memory or on disk; just download it three or four times instead. When you have exhausted these techniques, don't forget that many of the old, familiar techniques can be used on packet radio. Tell off-color jokes. Interrupt conversations. Overmodulate. Make endless test transmissions. The possibilities are endless.

From the Library

George Lee, W610W

Here's what's new in the April issues of:

- ST: Super SCAF and Son - A pair of switched capacitor audio filters (2 models using S3528 and S3529 by AMI digitally tuned bandpass filter).
A truly broadband antenna for 80/75 Meters (SWR<1.5 for 3.5 to 4.0 MHz).
Tune up your Tribander (maintenance tips for traps).
Review of Ten-Tec 425 Titan HF Linear (a very good unit).
- HR: Introducing Satellite Communications
Wide Range RF Power Meter (-15 to -45 dBm, HF to GHz)
Grounded Grid Amp Parasitics (some cures for).
Universal XTAL Circuit (0.1 to 20 MHz range).
Computer control of Icom R-71, 271, 471 and 751.
AC Line Transient Protection.
Modifying the TS-930S (8 more memories, 10 Hz readout, scanning and more).
- CQ: A visit to BY4's (See what equipment they have with your QSO).
How to build a shortened vertical for 20 & 30 Meters (cap hat and trap).
A loop array for 160 Meters
Review of the TH7DX Triband Antenna
Review of the Sommer Trapless Multiband Beam (a very good one!).
- 73: Your Bridge Over Troubled Antenna Tuning
Stacked Vee-Beam arrays.
The Match Maker.
A connoisseur's Microwave converter for 2 GHz.
Rock Solid RF (PLL Synthesizer).
- Kenwood Newsletter
Kenwood new products color brochures
Schematic of TS-440
New product TR-751D Transceiver
TR-7930/50 power output fluctuations
TS-940S service tips
Lazy man's TS-930S to SM-220 interface
TS-930S AM/RX Audio very brassy
Heat problem on TS-430S
TR-7930 loss of center freq led on front panel
TS-940S/AT CW situation
TS-940S AGC problem
Squeak in TS-940 main tuning
TS-430S FM option
TS-2600 Model J purchased in Japan
Dayton Hamfest
New IRI faster service;
New crystal filter installation policy
Kenwood PC1-A phone patch problem
- Icom Newsletter
New Product IC-751A HF base station receiver
IC-3200 20 kHz tuning step modification
IC-271H shut down information
Tuners and Trimmers
A better tuning knob for the IC-735
Add an efficient external preamp to your IC-735
New IRI policies;
New crystal filter installation policy
New IRI Icom exact replacement filter
IC-271H MARS
IC-751 scan speed adjustment
- Yaesu Newsletter
Yaesu 208/708 & 209/709 handhelds
FT-757 - "Caution to Owners"
FT-757 diode replacement info
Modifying the Yaesu FT-301 for 30 Meter coverage (Part 1)
Yaesu 757GX problem with receiver on 75 Meters

FT101 RF gain control

Dayton Hamfest

New IRI faster service;

New crystal filter installation service

Besides the above magazines, we also have the following available in the shack:

World Radio, a monthly pamphlet from Sacramento, CA.

Kenwood, Icom and Yaesu Newsletters.

Satellite Journal by AMSAT.

We are adding 2 new subscriptions, Gateway and the TAPR Journals. When they arrive, it will be announced.

New Members - - Old Members

License expirations coming up in the next few months are:

KA6KDN, Vic Musil, April

W6GC, Irv Emig, April

WA6ATK, Dave Stockwell, May

W6NWP, Charlie Clarke, May

W6ODI, Bob Lace, July

Remember you MUST use the Form 610 printed on goldenrod color paper or the form will be returned and you will just delay getting your renewal.

Ron Phillips, K6MLL, is calling it quits with TRW and will begin an early retirement. Ron has some property near Hilo, Hawaii and is looking forward to moving there in the very near future. Good Luck to you Ron and send us some macadamia nuts every now and then.

Membership Chairman Bill Dews reports that badges for the following are ready to be picked up at the next meeting. NU6U, W6ECH, K6AHF, WB6IMV, N6MFQ, W610W, W6PDH, N6KRF, KA6JOK, KB6LSE and KI6CP.

Welcome to the Club:

Terry Harris, N6DUV, and Associate member holding a General Class ticket and a ham for 23 years.

Pete Lovcock, K6JM, an Associate member who works for Hughes Aircraft.

Wayne Hale, W6IZK, who is into VHF, Packet and Computers as well as amateur radio for 28 years.

Steve Chapman, KI6CP, a holder of an Advanced ticket and a ham for 42 years and an ARRL member too.

Steve Smith, KA3JZT, licensed for all of 2 years and holder of a Technician license.

Welcome to you all and hope to give you an "eyeball QSO" in the near future.

Heinrich Hertz Centennial

1986 is the centennial year of Heinrich Hertz's pioneer experiments in electromagnetic waves. It was November and December 1886, when he was professor at the Technical University of Karlsruhe, Germany, that Hertz first watched the discharging of a Leiden jar through a spark gap, which was in the center of a 3 meter long copper wire. He realized that in a similar wire with a gap 2 meters apart, small sparks were also generated without any physical connection between the two wire gap systems. These were the first transmitter and receiver of electromagnetic waves.

Only a few months later, Hertz found the wavelength of the oscillations (8 meters), their velocity in free space, the influence of resonance, nodes of zero electric effects on the wires, the rectilinear propagation of the waves and their reflection from metal surfaces. Performed in the largest auditorium available, he experimented with wavelengths down to 1/2 meter.

Thus, Heinrich Hertz laid down the fundamentals of all varieties of modern-day communications, including Amateur Radio. But he didn't live long enough to see the results of his work; he died January 1, 1894.

Thanks to QST and Dr. Wolff Parmentier, DJ5JH for that tidbit. Sounds like it would be a good science project to re-create Hertz's experiments during this centennial year.

ECT Noontime Check-InDale Jensen, K6ZTIECT Checkins for March 5, 1986

By Randall, W6ZWS

K6AWO	Bill	Mobile	R5 Parking Lot
W6ECH	Bob	HT	E1 Camino College (no PL)
W6KKU		Mobile	
W6ZWS	Mac	Mobile	Hawthorne & Compton
K7JAJ	Jim	Mobile	M2 Parking Lot

By Bill, K6AWO

W6KKU	1215	5W	Crenshaw & Rodeo
W6NWP/R			Repeater "on the air"
N6JNX	1224		Hawthorne
WA6GV0	1225	25W	R6

ECT Checkins for March 12, 1986

By Chris, WA2KDL

WA2KDL	Chris	1200	Del Amo
KE6LB		Mobile	Compton & S.D. Freeway
K6AWO	Bill		May Co. & Hawthorne
K7JAJ	Jim		Compton & Space Park Dr.
K6ZTI	Dale	Mobile	Bldg 134 parking lot
W6EKK			Compton & Hawthorne
W6ZWS			M6 parking lot
N6MZW			Rosecrans & Prairie
N6CIZ			R4 parking lot

ECT Checkins for March 19, 1986

by Rich, N6CIZ at Bldg R4 parking lot

WA2KDL	Mobile	Del Amo & Van Ness
W6ZWS	Mobile	Space Park & Freeman
KB6ASH		Hawthorne
W6IMQ		Bldg 103
K6AWO		R5 parking lot
W6KKU	Mobile	Santa Monica

ECT Checkins for April 2, 1986

by Dale, K6ZTI, 25W, Bldg 134 parking lot

Net opened at 12:05 pm

W6ZWS	10 W	Rosecrans & Aviation
KG6JP	3W	M4
N6NDS	5W	Terminal Island
N6IQA	0.5W	M2 parking lot
W6EKK	0.5W	Inglewood & Man Bch Blvd
N6MZW	5W	Prairie & Rosecrans
K6RGW	1.5W	Manhattan & Aviation Blvd
N6CIZ	5W	Manhattan & Inglewood

Net closed at 12:15 pm

ECT Training Opportunity

To provide our members with an opportunity for training and practice in emergency communications net handling procedures, the TRW/ARC has established a relationship with the Hughes Aircraft ARC. The HAC ARC has had several years of experience in providing communications for all kinds of events and now are in so much demand that they have had to turn down several requests. We here in the TRW/ARC can benefit from their expertise and at the same time help relieve them of some of their work load. They will give us advance notice of activities so that we can respond to their needs. The contact points with the two clubs are Scott Fraser, KN6F, 616-7193 at the HAC ARC and Dale Jensen, K6ZTI, 217-4876 at the TRW/ARC.

For furthering our member training, we encourage our members to work with groups that use amateur radio for their communications. Examples are RACES, ARES, 5 & 10K runs, marathons, etc. For example, on April 26, 1986 there is a need for ham radio volunteers to help with the Special Olympics to be held in Glendale. Please contact W6LS, 2814 Empire Ave., Burbank, CA. 91504. This is the Lockheed Club. They, I am sure will welcome your help. Let them know if you have handhelds and whether they are 2 Meter, 220 MHz, or 440 MHz. Provide your name, callsign, telephone number and address.

General Meeting 25 Mar 1986Paul Lukas, N6DMV

The meeting was called to order by President Chris Wachs. The minutes of the previous meeting were accepted as printed in the Crosstalk. Dave Stockwell reported on the state of the treasury. The SEA distribution will be much less than expected and much less than last year's amount. The price of donuts and coffee at the Swapmeet have been raised to offset this loss. Jim Wike reported that he still has Club patches for \$1.00. The door prizes included a Satellite Experimenters Handbook, a DXer's Handbook, an Antenna Compendium, 2 packs of 100 QSL cards and the \$25.00 gift certificate at C&A Roberts. It was reported that Art Roberts is closing up shop as of April 26th and is having a retirement sale until then. A new sponsor for the door prizes will need to be found. Jim Wike reported that the 10 PK-80 Packet Controllers are on order and that a 2 week delivery was expected. The antenna installation at the Club shack in Bldg 65 is progressing. Guy eyebolts and back up plates have to be reworked and this work is in progress. Jim Cox requested that when ducting occurs to San Diego, please use the repeater sparingly as a courtesy to the folks in San Diego and when you do use it run only enough power to get you into our repeater reliably. Paul Lukas reported that on some days he can receive San Diego better than the W6TRW machine with a 5 element Yagi pointed directly toward our repeater. Emergency Communications Team members were reminded to check in on Wednesdays at noon local time for the ECT Net. Vice President Scott Gilmartin introduced the speaker, Harold Price, NK6K, also known as Mr. Packet Radio. Harold gave a very informative and humorous presentation on Packet Radio happenings and also what is happening concerning Amateur Radio Satellites that are in work in the USA and other countries. Thanks Harold!! The door prizes were raffled off and the meeting was adjourned at 1259 local time. 30 persons attended the meeting.

LUXURY -- Something that becomes a necessity when you can get it with a down payment.

ARRL National ConventionBill Dews, K6AWO

You have probably seen the ads in World Radio and QST so now is the time to stop thinking about it and start doing something about getting your reservation in so you can become eligible for some of the Early Bird and Advance Registration prizes! Early Bird prizes are a Yeasu FT-209RH and a Kenwood TR-2600. Your registration must be postmarked before April 15th to be eligible. Advanced Registration prizes are a Yaesu FT-2700 and a Kenwood TR-2570. All mailed registrations are eligible for these prizes. Register before 8/15/86 and it costs \$3.00 less. All of the usual National Convention stuff will be going on with some specials only San Diego could provide. A Youth Forum led by Astronaut Tony England, W00RE will be presented. A Friday Evening Dinner Dance Cruise in San Diego Bay will be available for the first 100 persons to sign up for it. The TRW/ARC has reserved a room at the Town & Country Hotel, which is the Convention Hotel, for Friday and Saturday evenings. It will be used as a hospitality room for TRW/ARC members only. A good place to cool your dogs with a tall cool one or just get to know some of the other members a little better. Those with ice chests please bring them along to hold the pop or whatever.

So what are you waiting for?? Find the registration slip in this Crosstalk and fill it out and send it in and join the Gang in San Diego on September 5-6-7!!!

GOOD ADVICE -- Something your children disregard but save to give their children.

March Swapmeet Notes

Frank Cartier, WA6RAY

Well, it finally happened. A turnout so large that we filled the seller's lot. In order to fit everyone in it is necessary to strictly enforce our 1 slot per seller rule. We did a lot of consolidating of sellers who had spread out into 2, 3 and even 4 slots. Everyone was very cooperative and it worked out real well. The last 15 to 20 sellers that arrived had to be personally escorted into the last available slots by a volunteer supervisor. We were very busy from opening time (0700) until the last seller was squeezed in at about 0900. The line up of cars at the start was so long that it took us 30 minutes to completely get both lines into the lot and the single entrance we normally keep open was busy until 0900. We have over 400 individual sellers spots and most were occupied with a single vehicle so we had close to 400 sellers and I would estimate 1500 to 2000 buyers roaming around. So it was quite a turnout and a great Amateur Radio Swapmeet.

The TRW/ARC would appreciate it if all the sellers would follow the "one spot per person" rule for our future Swapmeets. Sellers that take 2, 3, and 4 spots just delay those that arrive later and take time out of your selling effort while we consolidate you down to one spot. There is only one instance in which more than one spot can be taken by only one vehicle and that is if 2, 3 or 4 amateurs carpool. In that case each amateur is entitled to one spot, but be advised that the Swapmeet supervisors will be checking to make sure this is the case as the lot begins to fill to maximum. It is the cooperation of the participants that makes this such a successful event. The food booth was so busy that they sold everything they had by 1000 and left the sellers lot by 1030.

The March Volunteer Supervisors were:

Paul Herbert, KG6CR

and Frank Cartier, Jr., KB6LSE

Thanks to Paul and Frank for an excellent job on a very busy day. Also thanks to Norm Wright of Maintenance and TRW Security for their vital support month after month.

The Volunteer Supervisors for April are:

Charles Barnett, WB6ZIA,

Joe Zboril, WB2DRH

and Dave Stockwell, WA6ATK

The volunteers are reminded to be at the seller's lot between 0640 and 0645 and make sure there is no one in the seller's lot before 0700 except the food booth crew. Again, a reminder that the June Swapmeet will be held on the 3rd Saturday since Field Day is on the 4th Saturday this year. That is, the 21st of June for the June Swapmeet **not the 28th**. Please spread the word around about this date change so that no one will be disappointed.

For all those Club members that attend the Swapmeet, please observe that all of the rules are being followed. If not let one of the volunteer supervisors know. We monitor the output of the Club repeater on 145.32 MHz. 73's and see you on Saturday 26 April at 0700!!

Bitter Over Litter

The following letter to the Readers Readback column of the TRW Sentinel employee newspaper. THOSE WHO ATTEND THE TRW/ARC SWAPMEET PLEASE TAKE NOTE!!

Dear Readers Readback:

The SEA swap meets held in parking lots C and D are evidently held for the benefit of people who have junk at home they want to discard. If a buyer cannot be found, the junk is often left in the parking lots for the gardeners to clean up and haul away.

It seems to me that the lots are getting dirtier after each swap meet. Something must be done to remedy this situation. The people in charge should hold the participants responsible for cleaning up their immediate area. If this is not adhered to, no future swap meets should be held on TRW property.

The caterers should also be responsible for cleaning their litter if they wish to continue servicing our swap meets.

Tired of Hauling

Dear Tired:

Thank you for your concern for TRW property. The awards won by TRW landscape staff are a source of pride for all of us. Sellers at the TRW/SEA and Radio Club swap meets take note: You alone are responsible for leaving your area as clear of debris as you found it. The motto of the wilderness clubs is appropriate: Pack it in and pack it out!

In addition, sellers and buyers should make use of the trash cans placed in the area for swap meets. However, they are not meant for unsold items. Our caterer will be requested to clean the area around his truck, but he cannot be held responsible for the carelessness of others once they leave that area. If the swap meets become an excessive burden on TRW maintenance, our privilege will be revoked. Let's make sure that doesn't happen.

To report a problem, look for the swap meet directors in the red hats. In the future, swap meet flyers and tickets will inform sellers of their responsibility to keep their sites clean.

TRW/SEA Executive Committee

The message is clear. The problem has gotten bigger and we all need to do something about this now! The TRW/ARC conducts twelve swapmeets a year and the SEA only four, so people are going to point the finger at us even if we leave the site cleaner than SEA does. Experience shows that an improvement is needed if we want to continue with one of the best Amateur Radio events in the Southern California area.

Being economical is a way to spend money without getting any fun out of it.

ARRL 1986 NATIONAL CONVENTION September 5, 6, & 7, 1986 REGISTRATION DATA FORM (Print or Type)

Name _____ Call _____
Street _____
City _____ State _____ ZIP _____

Make Badges As Follows:

Call _____ Name _____ City _____
Call _____ Name _____ City _____

Pick up Tickets and Badges at the Door.

To Reserve a Room at the Convention Site, Call
T & C Hotel and ask for ARRL rates. Toll Free:
California (800) 542-6082, USA (800) 854-2608
CONVENTION INFO: (619) 292-7918

MEETING SITE TOWN & COUNTRY CONVENTION CENTER SAN DIEGO, CALIFORNIA

How Many	Cost	Amount
_____ Advance Registrations	@ 7.00	_____
_____ Registration After 8/15/86	@ 10.00	_____
_____ Banquet (Prime Rib)	@ 25.00	_____
_____ Ladies Lunch (1st 100)	@ 10.00	_____
_____ Dinner Cruise (1st 100)	@ 33.00	_____
Total Enclosed		\$ _____

18 Years & Under No Charge For Admission At Door

Postmark Before April 15, 1986 is Eligible For
ALL PRIZES!!!!!! Mail With Check Payable To:
SANDARC, P.O. Box 82642, San Diego, CA 92138