



CROSSTALK

News Bulletin of the TRW Amateur Radio Club

Member, American Radio Relay League

MARCH 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 MARCH AND APRIL

Friday	Each Friday, 7-8am	Club Breakfast, S Cafeteria, VERY informal, arrive early and you may be the first!
Tuesday	Mar 25, noon	Club Meeting, R4/1041. Speaker will be Harold Price, NK6K. "Mr. Packet Radio" will talk about his favorite subject and where Packet Radio is headed in the future.
Saturday	Mar 29, 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.
Sunday	Mar 30	Happy Easter Egg!!
Tuesday	Apr 8, after work	Executive Board Meeting. All members are welcome! At Shakey's, Manhattan Beach, 2000 N. Sepulveda Blvd., just south of Marine Ave.
Saturday	Apr 26, 8-11am	Swapmeet
Tuesday	Apr 29, noon	Club Meeting, R4/1041.

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

W6TRW Tower Working Party

Bob Hume, KG6B

I am looking for TRW ARC members who would like to assist in erecting the new Rohn 45 guyed tower and KT34XA tribander antenna on top of building 65 for the W6TRW station. Those interested please call me at (213) 217-3624 (work) or (213) 376-4192 (home). Maintenance has installed heavy duty guy attach points and a welded base plate to the structural steel of Building 65. This work was completed in February. When completed, the Club will have a very beefy tower to support the large KT34XA beam antenna. It should be easy and safe to climb and work on. A rotatable 40 Meter beam could be stacked on top in the future. The TRW ARC members should have a lot of fun on the HF bands during the next solar cycle with this new tower and antenna. Come out and be a part of the current effort.

Packet Radio PK-80 Group Buy

With all of the Packet Radio activity going, on and all of the Club members taking the plunge, the TRW/ARC wants to make it easy for non-Commodore 64 or 128 users to join in the fun. We are arranging a group purchase of AEA PK-80's which can be used with any computer that has an RS-232C serial port. There are already 8 interested parties but we need 10 or more. The PK-80 normally sells for \$220 but our price should be \$190 or less. If you are interested contact Jim Wike, W6GPE at X56214 or Steve Ng, N61QA at X51417 or Chris Wachs, WA2KDL at 316-9243. Don't think about it - do it now!

HEAVEN'S SHUTTLE CREW by Eileen McKinney

You climbed the steps to Heaven today.
We sadly watched as you went your way.
With shattered hearts we stood in awe.
Not believing what we heard and saw.

The hopes and dreams that drove you on.
They'll live forever and never be gone.
You made your journey although too short.
And entered Heaven through starboard port.

Your lives on Earth were not in vain.
You saw the sun and felt the rain.
Soared above the common man
Yet while you flew we held your hand.

New wings will be assigned to you.
You know just what you'll have to do.
Guardian angels will be your chore.
Guarding astronauts that fly once more.

For fly they will till the job is done.
The challenge of space has just begun.
So stay with them and never roam.
Until you guide them safely home.

Thanks to the JPL ARC W6VIO CALLING
(ed. Eileen McKinney is the very capable Editor of W6VIO CALLING).



From the Library

George Lee, W6IOW

What's new in the March issues of:

QST: A CW Xmtr for 902 MHz (a CW 10 Watt xmtr).
Field Tester for Antennas (a VFO with 200 mw output @ 12V & a SWR bridge).
Product Review of Heath HW-99 Novice CW Xmtr.

HR: Build Narrowband RF Filters (using C-64 BASIC).
Monolithic RF Amplifiers (Familiarization with Aventek MMIC-MSA line).
VSWR Bridges (some thoughts about their design).
Modifying the Yaesu FT-301 for 30 Meter coverage.
Build a Bench Power Supply (1 to 15V @ 5A & +12V @ 1A).

CQ: Creating Contest Dup Sheets with Lotus 1-2-3 (for the Computerists).
Product Review of the Nye Multiband Ant. & MBI-02 Matchbox (FB units).
Product Review of the Kenwood MC-55 Comm Mike & Control Unit.
Product Review of the Microwave Modules MMT144/28R Transverter (Pg 97).

73: Halt that Hum! (A C-Multiplier increasing filtering effects).
132 Extra Memories for your FT-107M (@ 3¢/memory!).
Faster than a Patch, It's Speed Dialer (In a hurry? Just push one button).

"Quick Look-See" index for the Icom, Kenwood and Yaesu Newsletters for January, February and March.

Icom - January

New Version of IC-02A/T
Icom Warranty Info
New Subscription Period
New Yaesu Letter
Subscriber Needs Help
Prices on Japanese Products Going UP.
IC-735 - See Signals You Hear
Mod to Use RC-10 with IC-271/IC-471
Icom R70/R71 Computer Control Info - Part V - Final Part
Revised Technical Assistance Policy

Icom - February

IC-735 Notch Filter
IC-02AT Information
Scope Readout of the IF of Incoming Signals
IC-271 MARS Frequency Mod
SM-8 Desk Mic Information
IC-751 Help
IC-02AT Extended Freq. Range Mod for SN above 3400
IC-02AT, IC-04AT Low Power Adjust Mod
IC-745 Interface to SM220
IC-751 Packet Radio
Scan Resume even if Channel Busy for IC-3200
Subscriber's Comments on "IRI Reviews IC-735"
IC-751 Scope Pick Off Point
Using Non-Icom Mics with the IC 735
IC-745 Low Band Antenna Protection
IC-271 MARS Frequency Info
Keying IC-745 in CW Mode
Frequency Extension Mod for IC-04AT
IC-3200 Extended Coverage
Breakthrough RIT for the IC-R71A
Icom AT-120 Info
A Better Tuning Knob for the IC 735
IC-02AT Audio Output
Tuning Below 100 kHz on the R71

Icom - March

Sony Raises Prices
Icom IC-R7000 Availability Delayed
IC-3200 Extended Coverage

Improving the 751 Receiver

751 S-Meter Adjustment
751 Transmit Audio or Carrier Set-Points
Loss of Output Power
More Comments on 751 and 745
Request for Info
Birdie due to Internal Power Supply

Kenwood - January

New Products - TM-2570A/2550A/2530 FM Transceivers
DCL - Digital Channel Link
New Yaesu Letter
New Subscription Period
Prices on Japanese Products Going UP
TS-940S LCD Clock Display Erratic Operation
Split-Dot Problem on some TS-940's
TS-930 Antenna Tuner to Operate 3 MHz to 5 Mhz for MARS
TS-940 CW AGC Fix (Correction)
TS-940 Revised Service Manual
TS-430 Cascade Installation Tips
Revised Technical Assistance Policy

Kenwood - February

TS-940S IC-2 Fix
General Coverage Auto Antenna Tuner for TS-930S/AT 1.5 to 29.9999 MHz
TS-430 AM Audio Fidelity Mod
TS-430S Power Output Intermittent or SSB Distortion
TS-940S/AT CW Situation
TS-940S More Sensitivity on 0.5MHz-1.5MHz
TS-940 SSB Increase Average Output Power
The Kenwood TS-940 and the SM220
TS-430 Notes
Hot TS-930S
Subscriber's Request Column
Kenwood R-1000 - Mods from Austria

Kenwood - March

Kenwood New Product - TS-440S
Kenwood R-1000 and Yaesu FRG-7000 May Serve as Frequency Meters
TS-930S Line Noise Fix
TS-930S Sidetone Leakage

Yaesu - January

Prices on Japanese Products Going UP
Welcome - to Our First Yaesu Owner's Newsletter
Earn a Free Subscription
FT-757 Diode Replacement Info
Yaesu FT-480R 2M All-Mode Rig Listening on the Input Frequency of a Repeater
Variable Power for the FT-408R
Mod for the FT-290R - Listening on the Input Frequency of a Repeater
VFO Split
Review of the FRG-9600 Continuous Coverage VHF-UHF Receiver (Part One)
Revised Technical Assistance Policy

Yaesu - February

Intermittent TX Problem in FT-101ZD
FT-707 - VIC-20 Info
Japan: A Look At Yaesu - Musen
Yaesu FRG-7700
Review of the FRG-9600 Continuous Coverage VHF-UHF Receiver (Part Two - Final Part)
160 Meters and the FT-101

Yaesu - March

New Products - FT-3700
Sony Raises Prices
Kenwood R-1000 and Yaesu FRG-7700 may Serve as Frequency Meters
Improving SSB Performance of the FRG-8800
FT-101 QRO Kit
Selectable CW Filters for the Yaesu FT-901DM
10 MHz Operation with Yaesu FT-101 Models

What tremendous luck! The only absolutely gorgeous Saturday in February was the 22nd, the day of our Swapmeet. When I arrived at 0600 there wasn't a cloud in the sky and as the sun came up the temperature climbed steadily into the low 80's. Considering the weather the previous couple of weeks we were very fortunate. We again used both entrances at the 0700 opening time and again had everyone in by 0706. No lines, no waiting and plenty of great selling spots. We will continue to use this method for the start of the Swapmeet so that everyone who wants in at the start can set up very quickly.

Speaking of setting up quickly, a few industrious (devious may be more accurate) sellers attempted to send in "scouts" with tables, chairs, etc. to stake out what they consider "prime" sellers spots prior to the opening at 0700. These people were run off the lot by the volunteer supervisors as soon as we noticed what was happening. This activity was especially apparent at the east end of the seller's lot. This practice is absolutely a violation of our 0700 starting time rule. No one is allowed to "stake out" a spot or bring in any equipment prior to the starting time with the exception of TRW Maintenance and Swapmeet staff personnel. This was a new wrinkle this month and anyone found trying it in the future will not be allowed to take part in the Swapmeet as a seller.

As usual there were 30-40 vehicles lined up at the entrance when I arrived at 0600. Again, since we get everyone in at 0705 to 0710 there is really no reason to arrive before 0645.

The February Volunteer Supervisors were:

Bill Dews, K6AWO
Irv Emig, W6GC
and Bob Hume, K6GB

Thanks to Bill, Irv and Bob for an excellent job. Bill and Irv received a new red TRW ARC hat for their efforts. Bob preferred his old original TRW blue hat with the "1000 hour" look to a new one.

Thanks again to Norm Wright Jr. of TRW Maintenance and TRW Security for their essential and dependable support month after month.

In last month's article I reported that we would have a mobile communications van display by the LAPD Van Nuys Hamwatch in February or March. It was decided to bring the van down in March since February weather had been so bad. I sure hope the March Swapmeet has weather as good as February for this interesting and important Amateur Radio public service display.

The Volunteer Supervisors for March are:

Paul Herbert, KG6CR

and two others who have not been scheduled as of press time. The Volunteer Supervisors are reminded to be at the seller's lot between 0630 and 0645 and make sure there is no one in the seller's lot before 0700 except the food booth crew.

The winner of the TRW/ARC Swapmeet Raffle is ticket number 440125. If you have the winning ticket, present it to Treasurer Dave Stockwell for your \$10.00 prize, to be spent at a future Swapmeet of course.

The TRW/ARC Swapmeet is probably the largest monthly Amateur Radio related Swapmeet held in the world so, if you have something to unload or need an addition to your station from a piece part to a complete station, mark your calendar for Saturday, March 29th and join in the fun. Also, remember 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 instead of the 28th for the Swapmeet. Spread the word around 73's and see you on March 29th at 0700!!

TEENAGER -- A young person who gets blamed for acting the way his parents did when they were his age.

On Saturday, March 8th, LA had its First Official Annual Marathon and it was a huge success. The communications for this event were honchoed by Scott Fraser, KN6F, of the Hughes Aircraft Amateur Radio Club. There were a couple hundred Amateur Radio operators providing communications, which included "walkers" who patrolled every inch of the 26+ mile marathon route. Each of these 104 walkers carried 2 Meter handhelds and operated on one of several specified simplex frequencies which were set up to minimize QRM. A fifth fixed mobile station for each of the 26 one mile segments relayed any info from the walkers covering the segment and relayed the messages to net control or First Aid via 220 MHz. The walkers reported any downed or injured runners plus any other marathon related information and it was quickly acted upon. I personally covered a quarter mile portion of mile 11 which was along Hollywood Blvd. near Normandie Blvd. I had no seriously injured runners, but did have a few requiring minor first aid or needing transport back to the Coliseum finish line. In retrospect, I was very pleased with the way the marathon was conducted and hope to get involved with it again next year. I suggest that others in our Club get involved in the 1987 Marathon event. I will be in touch with the Marathon Communications Coordinators to set up such participation. Congratulations to one of our TRW/ARC members, Frank Cartier, WA6RAY, who ran in the marathon and successfully completed the grueling 26 Mile run.

General Meeting 25 Feb 1986

Paul Lukas, N6DMV

President Chris Wachs opened the meeting by displaying the prizes for the winners of the VHF Contest. The prizes were an auto burglar alarm, set of Callbooks and a multimeter, all donated by Mel Erb. Chris then announced the winners, First Place, Frank Cartier; Second Place, Chris Wachs; Third Place, Jim Wike; Fourth Place, Bill Dews and Fifth Place, Paul Herbert. Chris reported on a letter the Club received concerning alleged repeater interference to another repeater. Bill Dews said that he will provide insurance info for interested ARRL members for ham gear and computers. Packet News; AEA has a new I/F unit, third party traffic is prohibited on digipeaters, unattended digipeaters on 50 MHz and above only. Jim Wike had handouts about the AEA PK-80 which can be purchased for about \$190 in a group purchase that he is organizing. Treasurer Dave Stockwell reported that the Club is solvent and the budget has yet to be approved. Dale Jensen stated that he is starting an Emergency Communication Team noontime check-in on Wednesdays. Both repeater and simplex operation will take place. Bill Dews reported that he has reserved a room at the convention hotel for use by TRW/ARC members during the ARRL National Convention this September 5-6-7. Paul Lukas reported on the work at Bldg 65 for the new tower base: baseplate is welded in place, mounting plate is attached, guy wire anchors installed; work expected to be completed Feb 25th. Vice President Scott Gilmartin introduced the speaker, John Browning, W6SP, Chairman of the Board of AMSAT and past Chairman of Project OSCAR. John gave an interesting speech on the upcoming Phase 3C satellite which will soon be undergoing thermal/vacuum tests at Martin-Marietta in Boulder, Colorado. He presented a humorous account of a friend's Field Day experience on some property of his in Virginia. Seems about a dozen cows were more interested in his friend's Quagi than in the grass that covered the hill top they were on. All of those attending enjoyed the AMSAT info and good humor - Thank you John!! Door prizes included 4 repeater directories, a solid state design handbook, 2 packs of QSL cards and the \$25 gift certificate from C & A Roberts which was won by Paul Herbert. 29 people attended the meeting which was adjourned at 1259 local time.

Field Day

Dale Jensen, K6ZTI

Well, (I always start talking with the pro-word "well") it's time to do more than talk about Field Day. Here is a list of tasks to be done and some of those who did them last year. Also, I'm gonna assume that, for the most part, that the folks that did a certain job last year would like to repeat that same job this year. There are some tasks that ought to have someone else do it just because some jobs are just plain tiresome. I'm showing the tasks pretty much in chronological order, so we can see the time frame in which things need to get done. Of course, I'll take care of the administrative details, such as getting the permit to use the same park we used last year. I have not had time to research who all did what last year, so my apologies on that.

Retune 15 M SSB Quad Antenna

Retune 15 M CW Quad Antenna

Retune 20 M CW Quad Antenna

Contact media and get coverage in the press, TV, etc.

Friday Lunch(?), Dinner

Saturday Breakfast, Lunch, Dinner

Sunday Breakfast, Lunch, Dinner(?)

Set up and maintain snack bar

Club Photographer

Generator(s) set-up, tending and return

Extension Cords

Computer operator(s) to automate duping and logging

Make sure 100 point items get done:

Send message to SCM

Non-fossil fuel power contacts

Oscar

Packet

We will operate the following bands this year:

80 CW (not done last year) share with 15 CW & V/UHF

75 SSB (K6ZTI last year) share with 15 SSB & V/UHF

40 CW (KG6B & team last year)

40 SSB (Ollie & team last year)

20 CW (K1TKL last year) share with V/UHF

20 SSB (Carl Kennedy & team) share with V/UHF

15 CW (WC6M last year) share with 80 CW & V/UHF

15 SSB (not done last year) share with 75 SSB & V/UHF

V/UHF FM share with 80, 75, 20, 15 and other V/UHF ops

V/UHF SSB, Packet, Oscar

Novice 80, 40, 15 M station will be run this year by KB6LSE, Frank Cartier Jr.

We will start out running 5A, switching to 6A and even 7A when needed. This year we will have a novice station going which will need a long wire antenna. This leads to another task, that of space allocation for this antenna along with our other antennas. We need to make sure that stations with the potential to interfere with each other are put in antenna nulls of each other. Bob Hume and Dale Jensen will try to work this out.

****Late Bulletin**** Sammi Komatsu has offered to help with the food this year!! That is outstanding! In addition, John Keller has volunteered to make breakfast for us on Sunday morning. We are checking to see if the Stockwells are willing to help out, they sure did a scrumptious job last year!!!

Well, that's it for this month. Let's all get going on our tasks. Any questions, call K6ZTI, Dale (note new phone number in the Staff listing on the back page).

From the President

Chris Wachs, WA2KDL

This month I attended the LAACARC with Bill Daley. I found it to be very interesting and informative. I especially enjoyed hearing about the activities of the other clubs in the area. There were more than thirty clubs represented at the meeting. I attempted to make contact with members of the other clubs in the South Bay area. One thing I noted; many of the clubs represented at the meeting sponsor radio classes and have volunteers to give exams. Perhaps the TRW Amateur Radio Club should commit itself to establishing such a program on a contin-

uing basis. The program could only benefit the Club.

As President of the Club this year I am establishing a goal for both myself and the Club. I intend to see that we increase not only Club membership but the Ham population as a whole. To support the achievement of this goal the Club will award a free dinner to the member who was responsible for motivating the most people to obtain their ham license. Dinner will be for the member and their guest at the Annual Banquet in November. Please see me about any questions or comments that you may have regarding this program.

Executive Board Meeting 11 Mar 1986

John Keller, N6JLS

Chris Wachs opened the meeting at 5:40pm local time. Chris stated that he attended the LAACARC meeting with Bill Daley. He said that the LAACARC is pushing to recruit new hams. Chris suggested that we offer a free dinner for TRW/ARC member and guest at the Annual Banquet that brings in the most new licensees into the ham ranks. Chris also suggested that a free dinner be given to the member that generates the best PR for the Club. Paul Herbert suggested that a Crosstalk article be generated to recruit a person to organize a Novice class -or- recruit non-hams and send them to a club that has a Novice class in operation. Bill Dews stated that he has reserved a room for the September National Convention in San Diego at the Town & Country Hotel (the convention hotel). It will be a hospitality room for TRW/ARC members only. F. Cartier will be the keeper of the key. Jim Wike reported that sign-ups for the St. Patty's Day bash were running slow and he hoped there would be more by the end of the week. Jim also reported that there were 8 interested parties signed up for the PK-80 group buy but at least two more are needed. Scott Gilmartind reported that the speaker at the next meeting would be Harold Price, NK6K, and he would talk about his favorite subject - Packet Radio. Scott added that, in the future, speakers were expected from Kenwood, Henry Radio, and maybe Art Roberts of C&A Roberts. Dave Stockwell presented four budget scenarios which were discussed. It was pointed out that the amount of SEA money we will receive is unknown and that budget approval be put off until the amount is known. Frank Cartier suggested eliminating the Swapmeet raffle. How many members use the library and can it's budget be reduced? Action to George Lee - How many members check out magazines? Finally, the amount of expected Swapmeet income was increased, the Swapmeet raffle was eliminated (\$20 left in for Jan and Feb), Misc was increased to cover the convention room, and equipment expenditures were reduced to balance the budget. The budget was accepted with the above changes. Bob Hume requested money to purchase an Autek Research Model WML SWR and Power Meter for \$89 to replace the Heathkit unit which was broken. Paul Herbert highly recommended Autek products. Motion to purchase was voted and passed. Bob stated that a fourth guy will be used on the west side to help with wind load and the original 19 ft lengths for the guy wires are resonant on the new 12 Meter band. This will require more eggs and turnbuckles. Motion to purchase was voted and passed. Facilities has finished the roof work and an 80 M Inverted Vee has been installed. Mike Aust plans to install his Icom 751 based HF system in the Club Shack as soon as the new antenna is up. Bill Daley reported that 267 hams helped out at the LA Marathon. March of Dimes Walk-a-Thon will be Sunday April 27th. Those interested in helping call Ron Boan, AK6Y at (213)596-7449. Bill Dews reported the Club has 189 members, an all time high. Frank Cartier reported that the LAPD Communications Van will be at the March Swapmeet. He also stated that the new opening procedure is working well. Dale Jensen reported that we are still in need of someone to look after the 2M HT batteries. At Field Day we will have a novice station operated by Frank Cartier Jr., KB6LSE. Sammi Komatsu has offered to help with the food this year.

New W6TRW 80 Meter Inverted Vee Antenna**Bob Hume, KG6B**

Thanks to Paul Herbert who did the final tower climbing installation work, W6TRW now has a new 80 Meter inverted Vee antenna in place. Don Resor and I made some SWR and Noise Bridge measurements for checkout. The technical details may be of interest to W6TRW station operators or anyone constructing an inverted Vee with a desired frequency range of operation.

The top of the Vee is 50 foot off of the roof which is 25 foot above ground. The apex angle is 130 degrees. The antenna is fed using a 1:1 balun and RG213 coax. The length of the antenna is 123 feet for phone and is extendable to 134.6 feet for CW with shorting straps on end insulators.

On phone the SWR minimum is 1.2:1 at 3.865 MHz. The SWR reaches 3.0 for +105 kHz changes about this frequency. The Palomar Noise Bridge shows the resonant frequency as 3.810 MHz with an R_p of 38 ohms as measured in the shack. On CW with the shorting straps in place the antenna should have an SWR of less than 3:1 for frequencies less than 3.65 MHz. The antenna is cut for DX around 3.5 MHz. For low SWR in the Novice band it is suggested that 2.3 foot clip on wires to each end of the phone antenna be used. It is quite easy to lower each end of the Vee to do this.

ARRL National Convention**Bill 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 Yaesu 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, W0ORE 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!!!

New Members - - Old Members

License expirations coming up in the next few months are:

WA6QET, Bill Ivey, March
KA6KDN, Vic Musil, April
W6GC, Irv Emig, April
WA6ATK, Dave Stockwell, May
W6NWP, Charlie Clarke, May
W6ODI, Bob Lacey, 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.

It is with sadness that we report that two former members of the TRW/ARC have become Silent Keys. Ralph B. Clark, KA6AVF, had become less active as a ham and more active in restoring old radios. A member of the Southern California Antique Radio Society (SCARS) he has served that organization as President. Bill Schrecengost proudly displays some of Ralph's handiwork, a 1924 5-tube Superhet receiver. Also a Silent Key is Don Schweitzer Sr. a former President of the TRW/ARC. Don resided in Manhattan Beach for 20 years while working for TRW and moved to Ojai when he retired. Don was the man responsible for giving the Crosstalk its name.

Welcome to the Club:

Steve R. Barton, not a ham but interested in long distance communication and computer linking. Let's get this guy into a class and get him a license!!

Dennis Medeiros, W6IGJ, 31 years a ham and holder of a General Class license. Dennis has already been heard on the repeater and gave me a nifty computer program for practicing Morse Code.

Rothan Morris Maxwell, NU6U, a ham for 5 years and holder of an Extra ticket, is interested in HF and CW and didn't answer yes or no to helping out on Field Day. Looks like all he needs is a little coaxing!

Bob, W6ECH, and Jerry, N6BEF, Curtis, both neighbors of Bill Dews and active in RACES. Bob and Jerry both hold Advanced Class licenses, said yes to Field Day and are active on VHF and with computers.

Charles D. Simmons, W6PDH, holder of an Advanced ticket and a ham for 27 years, is active on VHF. Swapmeet regulars will quickly recognize Charlie as one of the sellers that showed up at the begining and has been around every month for a long time.

Henry E. Ford, WA6AUI, licensed for 21 years and holding a Tech license. Henry works for Hewlitt-Packard just around the corner from us and has been on the repeater a couple of times. "Always Under the Influence" is always welcome on 145.32!

Vern Haines, W6KKU, a ham for 33 years and holder of a General ticket. Vern lives in El Segundo and is active on HF and VHF and in RACES and ARES.

Welcome to you all!! Hope to give you an "eyeball QSO" at the next meeting.



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