

# CROSSTALK

News Bulletin of the TRW Amateur Radio Club

Member, American Radio Relay League

SEPTEMBER 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 SEPTEMBER AND OCTOBER

Tuesday	Sept 24, noon	Club Meeting, R4/1041. Speaker will be Mr. Jim Cox, K7JAJ, of TRW, Inc. and the subject will be the care and operation of a 2 Meter Repeater, specifically W6TRW!
Saturday	Sept 28, 8-11am	Swapmeet, Northwest corner of Compton/Marine and Aviation behind the Chevron station.
Saturday	Sept 28, 10am-3pm	TRW Family Day. Bring the family, see satellites, see the TRW/ARC booth North side R4
Tuesday	Oct 8, after work	Contact TRW Thompson Prod, St. Catharines, Ontario, noon & 1pm local 7.200 & 14.160 MHz
Thursday	Oct 26, 8-11am	Executive Board Meeting. All members are welcome! At Shakey's Manhattan Beach, 2000 N. Sepulveda Blvd., just south of Marine.
Tuesday	Oct 29, noon	Swapmeet
		Club Meeting, R4/1041.

## TRW/ARC Annual Dinner - Saturday - November 16, 1985

This year we have our act together and you will actually get two notices that the TRW/ARC Annual Dinner is upon us. However do not delay in making your reservations as you may be too busy when the next one comes around and you won't have a lot of time anyway! We also learned a lesson last year and that was don't have a banquet at a Chinese restaurant when there is a Chinese wedding reception at the same time. So here is what you have to look forward besides a whole new set of oop's'es.

Where: Del Conte's Restaurant - The King's Room.  
2900 Pacific Coast Hwy, Torrance.  
North side of street between Hawthorne and Crenshaw Blvds.

When: Saturday, November 16, 1985  
6:00 PM "Happy Hour" No-Host Bar  
7:00 PM Dinner Service

What: Your choice: (includes all the trimmings)  
1) Baked Chicken  
2) 10 oz Prime Rib

Who: Julian Macassey, N6ARE, World Famous Toastmaster and Vice President of Operations of AMSAT.

Cost: \$9.00 each for Club member and one guest.  
\$14.00 for non-members and additional guests.  
Price includes everything but alcoholic beverages.

To make your reservation send your check for the appropriate amount to Paul Herbert, R1/2150, and include your choice of meals (Chicken or Prime Rib). Paul can be reached at (53)63404 if you need any info.

## BOY SCOUT COMMEMORATIVE STATION SCHEDULED FOR OCTOBER

The 75th Diamond Jubilee anniversary of the Boy Scouts of America will be celebrated in the Los Angeles area by a Camp-O-Rama sponsored by the Los Angeles Area Council of the Boy Scouts of America. Second largest with 75,000 scouts, the Council is preparing for a massive three-day, two-night campout October 25 through 27, 1985 on the campus of California State University at Dominguez Hills. The site is adjacent to the Velodrome constructed for the XXIII Olympiad last summer.

Commemorative amateur radio station N6BSA will be a significant part of this massive campout of 14,000 scouts and 35,000 daytime visitors. Three ham clubs, all members of the LAACARC, are hard at work preparing for the event printing attractive QSL cards and setting up special equipment and demonstrations for the energetic scouts to operate.

All stations will operate from portable power sources, mostly on 20 and 40 Meters plus 2 Meter and 220 MHz repeaters and simplex. Operation will be from 1500Z October 26 through 0200Z October 27, 1985.

Frequencies:

Phone: 3.910, 7.250, 14.250, 21.350 or 28.550 MHz

CW: 3.710, 7.110, 14.110, 21.110 or 28.110 Mhz

VHF Simplex: 145.690 or 223.500

VHF Repeaters:

Voice - 146.235 MHz (+600) WA6RJA/R

- 224.600 MHz KA6N/R

Packet - 146.745 MHz (-600) N6GPP/R

Send your QSL card with an SASE directly to the scout operator's home address, obtained from him on the air or to P.O. Box 5082, Torrance, CA. 90503. DO NOT use the Callbook address of N6BSA.



Attendees: Frank Cartier, Bill Daley, Bill Dews, Dale Jensen, Paul Herbert, Bob Hume, John Keller, Paul Lukas, Jim McWilliams, Walt Pearson, Bill Schrecengost and Chris Wachs. President Walt Pearson opened the meeting at 1730. Walt announced that Joe O'Brien is leaving for New York - Sorry to see you go Joe. The next speaker at our general meeting will be our Jim Cox, giving us a rundown on repeater operation and it's problems. Info from Paul Weisz: The HamCon business is still not closed out - some problems still to be resolved. Bill Ivey delivered the financial report to SEA. Mel Erb reports that there are still 19,000 QSL cards left over. Jim Cox was unable to attend the meeting due to the fact that it was his wife's birthday, but reported that the repeater interference problem went away by relocating the repeater at the Garrett site. He is working on a solution to eliminate the QRM at our location. A list of feature articles in the recent issues of ham magazines was sent by our Librarian, George Lee. Dale Jensen is preparing a presentation to TRW Security on the Emergency Communications Group. John Keller, recovering from his knee operation, called our attention to the approaching Sept 12, 13 and 28 dates for communicating with VE3CBG at Thompson Products Div, TRW Canada Ltd. The minutes of the Last EBM were accepted as printed in the Crosstalk. Frank Cartier reported on the successful Swapmeet held over the Labor Day Weekend. The crew had to remove some garbage and a number of "boat anchors" left on the premises. It is the responsibility of each seller to leave the grounds clean, violators may not be allowed to participate in the Swapmeet. The TRW/ARC does not charge any fee to the sellers. The least they could do is clean up their mess at the end of the event. The sellers, and of course all the participants, are GUESTS of the TRW/ARC. Please do not wear out you welcome by violating the Swapmeet rules. No one will be admitted to the grounds before 6AM. Sellers may wait in the Federal Building parking lot across Aviation Blvd from the Swapmeet. Frank requested HT's for the Swapmeet Supervisors and the availability of a base station which could coordinate between the crew and Security/Police. Bill Dews latest count is 164 TRW/ARC members - 99 in house. The rest is made up of retirees, family members and associates. Bill Daley gave his account of the LAACARC meeting. The 75th (Diamond) Anniversary of the Boy Scouts of America is coming up and a commemorative ham station will be set up at the site of the Camp-O-Rama at Cal State Dominguez Hills on October 25 - 27, 1985. The station will be N6BSA and will operate on 80 thru 6 Meters as well as VHF 2 Meters and 220 MHz and Packet. Frequencies and more details elsewhere in Crosstalk. Chris Vance, K6YMW, reported that during the HamCon on the Queen Mary, his bag containing his S-1 Tempo HT, his 35mm camera, and his checkbook were misplaced/stolen. If you have any info contact him at (818) 447-4876. A local television station is looking for people who have not seen a good friend is a long time for a new TV program. A request was made of the amateur community to see if there were any possibilities within our ranks. The next HamCon will be in San Diego on Sept. 5-7, 1985. It will also be the National Convention. The HamCon for 1987 will be held in Scottsdale, AZ and no date has been set yet. Bill Dews accepted the task of reserving a suite at the '86 Convention hotel. Fried Heyn has stated that he wants the 1988 National Convention to be in L.A. and that it should be a biggie! Bill Daley turned over to Walt a number of documents, among them a long list of emergency phone numbers in LA and Orange counties, a list of new novice hams in the LA area and newsletters from various clubs. Bob Hume said that the 40 Meter Quad is up and that he will tune it with a noise bridge. For the new tower installation we need the guy wire and the base plate, the tower has arrived. Chris Wachs presented a block diagram of a proposed W6TRW Packet gateway station. Paul Herbert reported that he submitted the Club's 1986

financial forecast to SEA. He passed out the present financial report of the TRW/ARC to those present. Chris Wachs is working on a location for the TRW/ARC Annual Banquet. Chris said that a restaurant would be selected this week. Paul Lukas is working on an experiment using a helium balloon to erect an antenna for his mobi' station. The setup may be used at our Family Day/Open House event on the 28th of Sept. Bill Dews reminded us that he and a few others will be operating from Mt. Pinos for the VHF Contest on Sept 14-15. Walt Pearson closed the meeting at 1845 local time.

### TRW Family Day

John Keller, N6JLS

The response from the TRW/ARC membership for participation in the TRW Family Day has been quite typical, that is, nearly nonexistent! What is going on out there? Is everyone a workaholic? Are we hams only because the FCC gave us a license? Does anybody but a few regular players ever do anything in Amateur Radio? By the time you read this about 1 week will remain to plan and carry out something to promote our hobby and our Club to the public. The only persons that have contacted me are Bill Schrecengost and Bob Hume. Through the efforts of Bob, Bill Dews, Paul Herbert, Barry Allen, Chris Wachs and myself (again all the regulars) we were able to get set up the 40 Meter Quad antenna for the Club station to talk to VE3CBG.

Since last month I have found out that the Family Day is only for S&TG and is not TRW-wide. I have also found out the the Oscar 10 Satellite will be out of view until 5:30PM, so we can forget an Oscar station set-up. However a low-band station (probably the best would be 20 Meters) and a Packet Radio station would be enough to draw attention. Getting handouts is also a task to be completed. I volunteered to honcho this job but I will not do all of the legwork since I only have one good leg to work with since my knee surgery.

So, who do I hear from next? If it's going to be no one then so be it! The Club that we present to those attending Family Day will be exactly what you members are willing to get out and present. We have over 160 members with 100 in house. Where are all of you?

The tent booths will be set up about 8:00 AM on the 28th and the hours of the Open House are from 10:00 AM to 3:00 PM. Two stations and handouts and a few people to operate is not asking a lot, so come on and pitch in. I can be reached at (53)62303 during the day and 545-4019 in the evenings. And my home phone has an answering machine. I'm waiting for your call!!

### Wanted -- For Sale -- Freebies

The following items are offered for sale from the estate of Gary Komatsu, K6HPD. 70 foot free-standing tower in excellent condition, \$400 OBO; Tri-Band Beam Antenna, \$100 OBO; RCA WV65A Voltmeter, BO; HP 400C Voltmeter, BO; Collins KWM2 Transmitter and Power Supply, \$250; Collins 30L1 Linear Amplifier, \$300; Tektronics Oscilloscope, Model 561A, BO. For any info or to arrange a sale please contact Bill Schrecengost at (29)73950.

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### Early Breakfast

Bill Dews, K6AWO

Friday morning at the "S Cafe." The gang is still showing up and seeing the face behind the voice. Cost is still under \$2.00 so try to meet your ham club member. We meet each Friday but you may wish to make it once in a while, you'll be welcome every time! (ed. Bill sent another register receipt for \$1.92 just to prove it can be done! All you really lose is a little sleep!)

## Emergency Telephone Numbers

## From the LAACARC

The list below gives the emergency telephone numbers for all of the cities in Los Angeles and Orange counties. If you use an autopatch to dial in an emergency and you use 11, the operator will wonder why you are calling in an emergency for Long Beach when the return number (the autopatch number) shows a West Covina location. If you dial the city direct, you avoid the questions.

### LOS ANGELES COUNTY

CITY	FIRE	POLICE	AMBULANCE
Agoura Hills	889-1122	456-6652	889-1122
Alhambra	570-5000	570-5151	570-5000
Arcadia	446-6188	446-2111	446-6188
Artesia	868-0411	866-9061	868-0411
Avalon	510-2233	510-0174	510-2233
Azuza	334-9311	334-2943	334-9311
Baldwin Park	444-2581	960-1955	944-2581
Bell	262-2111	585-1245	262-2111
Bellflower	638-6121	866-9061	638-6121
Bell Gardens	262-2111	927-2681	262-2111
Beverly Hills	550-4900	550-4800	550-4900
Bradbury	444-2581	448-9861	444-2581
Burbank	847-8611	847-9511	847-8611
Carson	638-6121	830-1123	638-6121
Cerritos	868-0411	866-9061	868-0411
Claremont	629-9671	626-1296	629-9671
Commerce	262-2111	264-4151	262-2111
Compton	631-5115	638-1131	638-1131
Covina	967-6411	967-6444	967-6411
Cudahy	262-2111	585-1245	262-2111
Culver City	839-1146	837-6161	839-1146
Downey	861-9221	861-0771	861-9221
Duarte	444-2581	448-9861	444-2581
El Monte	448-6121	575-2111	448-6121
El Segundo	322-4412	322-2424	322-4412
Flintridge	793-7176	248-3464	793-7176
Gardena	323-8505	323-7911	323-8505
Hawaiian Gardens	868-0411	866-9061	675-4443
Lawthorne	675-0303	675-4443	675-4443
Hermosa Beach	372-2188	376-9454	372-2188
Hidden Hills	889-1122	456-6652	889-1122
Huntington Park	262-2111	587-5211	262-2111
Industry	444-2581	595-2264	444-2581
Inglewood	671-8233	677-2121	671-8233
Irwindale	444-2581	962-3601	444-2581
La Canada	793-7176	248-3464	793-7176
Lakewood	638-6121	866-9061	638-6121
La Mirada	868-0411	863-8711	868-0411
Lancaster	948-2631	948-8466	948-2631
La Puente	444-2581	595-2264	444-2581
La Verne	593-1303	594-2531	593-1303
Lawndale	679-1131	671-7531	679-1131
Lomita	638-6121	539-1661	638-6121
Long Beach	436-8211	435-6711	436-8311
Los Angeles	384-3131	625-3311	483-6721
Lynwood	630-5520	537-6111	630-5520
Manhattan Beach	545-5679	545-4566	545-5679
Maywood	262-2111	588-2151	262-2111
Monrovia	359-9311	359-1152	359-9311
Montebello	722-2111	722-3600	722-2111
Monterey Park	573-1333	573-1311	573-1333
Norwalk	868-0411	863-8711	868-0411
Palmdale	948-2631	948-8466	948-2631
Palos Verdes Estates	378-8411	378-5211	378-8411
Paramount	638-6121	866-9061	638-6121
Pasadena	792-4161	577-4241	792-4161
Pico Rivera	868-0411	949-2421	868-0411
Pomona	623-6311	622-1241	623-6311
Rancho Palos Verdes	679-1131	539-1661	679-1131
Redondo Beach	379-5416	379-5411	379-5416
Rolling Hills	679-1131	539-1661	679-1131
Rolling Hills Estates	679-1131	539-1661	679-1131
Rosemead	444-2581	448-9861	444-2581
San Dimas	629-9671	599-1261	629-9671
San Fernando Valley	785-2151	787-1122	785-2154
San Gabriel	288-5050	282-1144	288-5050

## LOS ANGELES COUNTY

CITY	FIRE	POLICE	AMBULANCE
San Marino	282-9111	282-2131	282-9111
San Pedro	832-4241	832-7211	832-4243
Santa Fe Springs	866-1711	698-6711	868-1711
Santa Monica	393-0711	395-9931	393-0711
Sierra Madre	355-1401	355-1414	355-1401
Signal Hill	638-6121	426-7311	638-6121
South El Monte	444-2581	448-9861	444-2581
South Gate	638-6121	567-1311	638-6121
South Pasadena	441-1191	441-1191	441-1191
Tarzana	785-2151	787-1122	785-2154
Temple City	444-2581	285-7171	444-2581
Torrance	328-3131	328-3456	328-3131
Vernon	583-6331	587-8135	583-6331
Walnut	629-9671	595-2264	629-9671
West Covina	599-1593	338-1111	599-1593
Westlake Village	889-1122	456-6652	889-1122
Whittier	868-0411	698-6711	868-0411

### ORANGE COUNTY

CITY	FIRE	POLICE	AMBULANCE
Anaheim	533-1305	999-1911	533-1305
Balboa	644-3611	644-3711	644-3611
Balboa Island	644-3611	644-3711	644-3611
Brea	990-7911	990-7911	990-7911
Buena Park	521-2525	521-1121	521-2525
Corona del Mar	644-3611	644-3711	644-3611
Costa Mesa	549-1111	754-5252	549-1111
Cypress	527-6722	828-1222	527-6722
Fountain Valley	962-1313	962-4444	962-1313
Fullerton	738-6122	738-6700	738-6122
Garden Grove	534-4341	638-6611	534-4341
Huntington Beach	536-2501	536-5333	536-2501
Irvine	538-3501	660-3700	538-3501
Laguna Beach	494-1155	494-1121	494-1155
La Habra	870-8922	870-8922	870-8922
La Palma	527-6722	523-4552	527-6722
Los Alamitos	527-6722	527-7775	527-6722
Newport Beach	644-3611	644-3711	644-3611
Orange	633-1313	532-0221	633-1313
Placentia	528-2101	993-8111	528-2101
San Clemente	492-4111	492-4111	492-4111
San Juan Capistrano	770-6016	770-6016	770-6011
Santa Ana	542-2311	834-4211	542-2311
Seal Beach	596-2786	431-2541	596-2786
Stanton	527-2292	894-5521	527-2292
Tustin	838-1313	544-5420	838-1313
Villa Park	538-3501	834-3000	834-3000
Westminster	893-6565	897-2511	893-6565
Yorba Linda	538-3501	990-7911	538-3501
Unincorporated Areas	538-3501	834-3000	538-3501

### Picnic (The Fifth) Report

John Keller, N6JLS

Well, there isn't a lot to report because the picnic will be taking place about the time the Crosstalk will be delivered to the Mailroom for delivery to the membership. However, if you were not there and you are reading this you undoubtedly missed a great lunch, based on the previous four picnics. You will have to wait until next year to get a free meal out of the TRW/ARC and give your fellow members an eyeball QSO at the same time. If you are reading this and you did go to the picnic, you know that you had a good time and probably ate your dues in whatever Jim and Luella Wike conjured up for the last picnic. I only know that Jim has been coming in under budget for the first four picnics and will probably spend all he has left to make this last picnic the best. Ah well, until next year, we'll have to make due with the Friday morning breakfasts and the Annual Dinner in November.

How to cope with stress:

Rule number one: Don't sweat the small stuff.

Rule number two: It's all small stuff!

There are just 4 months to the January VHF contest. Last year the Club came in the bottom last 3 of all the clubs and that was with yours truly, the winner of the Los Angeles Section!

These four months are plenty of time to get ready for the contest. I know there are several members with 2 Meter VHF equipment. It's time to dust it off and get it ready. Once again, if you have 2 Meter SSB equipment you are in good shape to do well in the contest. VHF contests are catching on in the West. It won't be long before the bands are jam-packed on all frequencies above 10 Meters like they are back East. So get ready for the Second Weekend in January to work those frequencies above 10 Meters.

If my doctor told me I had only six minutes to live, I'd work a little faster.

#### August Swapmeet Notes

Frank Cartier, WA6RAY

The August Swapmeet was very well attended even though it was the Labor Day Weekend. We operated with a light crew since 2 of the volunteer supervisors could not make it. Thanks to Ed Koran, WA6JOK, for doing a fine job as the only Swapmeet supervisor besides myself. Ed was the recipient of the first red TRW/ARC hat for being a Swapmeet supervisor. We have now switched to red hats from the previous blue hats since the official TRW logo color is now red.

Although the turnout was large it was a very well behaved and cooperative group. One problem was that TRW Security let sellers into the lot at 0545 as I was arriving. I spoke to the Security Sergeant and told him we do not want any people on the TRW property until 0600. I request that sellers plan to arrive at 0600 or later. Do not begin to line up on TRW property before that time and do not impede traffic on Aviation Blvd or Compton/Marine Avenues waiting for the sellers lot to open up. In short, don't arrive before 0600!

Other minor problems were:

- 1) Trash left in the sellers lot - be considerate and clean up your area before departure. Don't leave any old "boat anchors" behind. We had a couple of old Friden mechanical calculators which I had to dispose of. (ed. There are plenty of trash receptacles in the sellers lot)
- 2) Late departure from the sellers lot - a number of sellers were late by up to one-half hour in departing from the lot. Our closing time is 1100 which means we want all sellers out of the lot by 1100. I will be enforcing this rule more strictly in the future Swapmeets starting in September.
- 3) Non-Amateur Radio and non-electronic items for sale - A couple of people attempted to sell non-ham related and non-electronic items. This is strictly prohibited and repeat violators will be refused entry into the Swapmeet. This rule will be strictly enforced so be advised!

Thanks to Jim McWilliams, W6RTG, and Bill Schrecengost, KE6LB, for their valuable assistance during the August Swapmeet. They are pro's at this Club activity and I really appreciate the help.

Volunteer Swapmeet Supervisors for the September Swapmeet are:

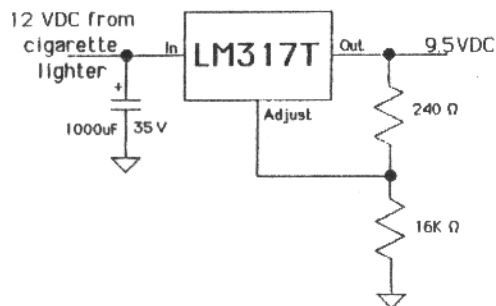
- 1) Gary Cooper, WB6RLN
- 2) Ed Farnsworth, W6TEC
- and 3) Darwin Salisbury, K6IGU

I would appreciate all TRW/ARC members attending the Swapmeet to observe that the rules of the Swapmeet are being upheld by the sellers. If you see an infraction or something that you feel is suspicious please point out the offending party to myself or one of the Swapmeet Supervisors so that we may take care of it.

73's and see you on 28 September!

Has your signal ever faded out during a QSO while mobiling? Most likely, the problem was the NiCad battery had drained below the operating voltage of your HT. If your HT, like the new Icom "O" series, has a receptacle for external DC input, perhaps you could run up the following few parts and use your car battery, saving the NiCad for later use. If you can find a 7810, a 10V regulator, you don't even need the resistive network! The case of the 317T should be on a heat sink and must be isolated from ground. The same goes for the 7810.

(ed. Be sure your regulator circuit does not exceed the maximum DC input voltage as specified by the manufacturer. The new Icom HT's will run directly off of the auto electrical system. For those HT's without a DC input plug you can install the electronics in a battery pack designed for use with replaceable manganese batteries. Most "3 terminal" regulators require 2.0 volts of "headroom" in order to regulate, that is, if the input voltage on a 10 V regulator drops below 12 V the output voltage will drop an equal amount.)



#### Tidbits from the Jolly Little S...

I'm sure that a few of our members are living (if you call it that) in the San Fernando Valley so here is little info about the San Fernando ARC Inc., W6SD. They meet the third Friday of the month at the Red Cross Building, 14717 Sherman Way, Van Nuys at 7:30 PM. They have licensing classes for Novice thru Extra on Fridays when they don't have meetings. They have license exams the first Saturday of the month at the Red Cross Building for Novice thru Extra. For info on classes or exams call Bill Bell, N6GL0, at (818) 762-5095. They have a 2 Meter net each Thursday at 8:00 PM on the Magic Mountain Repeater 147.735,-600, and everyone is welcome. They have a CW Training Net each Tuesday at 7:00 PM on 15 Meters (21.111 MHz) and the net will adjust to your speed and is designed to help you increase your speed. Net call sign is W6SD. They have, what looks like to this editor, one heck of an active club!

As you read this, Murphy's Ham Radio School will have already started their 15th year of operation. Classes start(ed) on September 17th. Classes are held every Tuesday evening starting Sept. 17 and run for 18 weeks. Meeting place is Senior Citizens Center, 4153 Overland Avenue, Culver City. Classes run from 7:00PM to 9:30PM. Registration for the Advanced Class requires a General or Technician license, but the General Class requires no prior exposure to Ham radio theory or Morse Code. Persons interested in attending should call "Edsel" at (213) 391-0312 during the day. Registration can also be made at one of the first three classes on a space available basis. Cost is \$65.00. Students under 18 years are \$25.00; Senior Citizens and couples are \$50.00 per person.

Astronauts Dr. Tony England, W0ORE, and Dr. John David Bartoe, W4NYZ, will be the guests of honor and banquet speakers at the ARRL Pacific Division Convention, "OCTOBERVENTION", to be held 01-02 November at the Hacienda Hotel, Las Vegas, Nevada. Drs. England and Bartoe flew aboard the Space Shuttle Challenger on mission 51-F in late July and early August of this year.



What's new in the September issues of:

- QST: Remote Control of Digital Communications  
(using phone line & a remote ASCII terminal)  
Loops and Dipoles: A Comparative Analysis  
Product Review of the IC-745
- HR: Passive Audio Filter Design Development & Analysis  
Adjusting SSB Amplifiers (using a 555 Pulsing Ckt)  
Understanding Telephones  
(description of working parts of a phone)  
A DTMF Controller for Repeater  
(multifunctional, expandable decoder)  
VHF/UHF World - Antenna of 28/38/45 elements with  
>19db gain for 1296Mhz  
A Digitally Controlled Satellite Tracker  
(Azimuth and Elevation Memory)  
A Carrier Actuated CW Reception Limiter  
(storage, clock control, etc)
- CQ: Review of IC-745
- 73: Antenna issue:  
Fighting Fire with Wire  
(a low radiation angle 15M wire ant to VK land)  
Brew a Coffee Can Ground Plane  
(dimensions are right for 440 MHz)  
Talking it to the Street - Part I  
(A remote base for talking to the world with HT)  
Build the Broadband Bow Tie  
(80 M antenna with VSWR <1.5 across the band)  
Wheatstones Are Not Crackers!  
(A nulling bridge to adjust ur ant. to 50 ohms)  
A New Angle for Dipoles (A case for HF verticals)  
Six for Two (6 ele. delta beam w/ 12db gain)

Library has recently bought 2 new books by the ARRL published in 1985. These are kept in the shack for check-outs with a 2-week limit. If you have checked out something in the past please see if you have returned it.

#### Sixth District DX-QSL Bureau

Sponsored by the Los Angeles Area Council of Amateur Radio Clubs (LAACARC) the bureau can supply envelopes for you at three (3) for \$1.00 which includes the envelope and one 22 cent stamp for the first ounce of postage. You must send 3 gummed labels with your name, call sign, address and zip code. If you normally receive many DX cards, please send additional stamps or money to purchase stamps.

If you wish to supply your own envelopes and stamps, please send 5 to 12 Self Addressed Stamped Envelopes (SASE's). Be sure that you put enough postage to cover the mailing to the bureau.

Due to postal regulations the bureau cannot mail cards on a "postage due" basis. Also, cards can only be sent to you by first class postage.

When sending in an SASE, be sure your name, call sign, address and zip code are clearly printed on the envelope and one First Class stamp is affixed for the first ounce. Additional stamps may be attached by paper clip to cover more than one ounce. Your call sign in letters one-fourth to one-half inch high should be printed in the upper left-hand corner. Please address envelopes horizontally. Kindly use 5" x 7 1/2" envelopes only. Cards do not fit in smaller envelopes; larger envelopes not fit in our file.

not use more than one call for each envelope unless the suffix is the same for both calls.

The bureau address is

SIXTH DISTRICT DX-QSL BUREAU  
P.O. BOX 1460  
SUN VALLEY, CA 91352

Hello, all! This has been a banner year for digital ham radio communications. The big news is that the TAPR TNC2 is a big success. When TAPR started taking orders for the new TNC2 there were so many calls from all over the U.S. and from foreign countries too, that the Tucson, Arizona phone system got shut down. This means Packet Radio must be the fastest growing facet of Amateur Radio. If you don't know what Packet Radio is see the July and August issues of QST. In a nutshell, Packet Radio is a digital communications mode on Amateur Radio that provides error free communications and allows automatic linking of systems for cross-country networks. Think of a network similar to the telephone network for long distance communications. Packet is fast also (120 characters per second on the 2 Meter band). The Terminal Node Controller (TNC) is a box that goes between your computer and your radio so that you can work the world of Packet. What is the biggest news? If you have a 2 Meter radio and a Commodore 64, then all you need is the new TNC plug-in module made by AEA due out any day now. I have heard some great things about it. It will have a split screen and will save Packet communications on a disk or you can send complete files from a disk. It will also time stamp all packets and keep a record of who was on the channel and when. To meet other amateurs involved in Packet in the Southern California area just attend the Digital Communications Council meeting every Saturday after the TRW/ARC Swapmeet. The meeting starts at 11:00 am sharp at Dana School near 135th Street and Aviation Blvd. This is just north of Swapmeet site. Meetings last about one and a half hours and everyone has an opportunity for an eyeball Packet QSO. Every Monday evening on 145.36 MHz at 8:00 pm there is a voice packet net with news and questions and answers. Net control is none other than "Dr. Packet," Harold Price, NK6K with help some nights by Skip Hansen, WB6YMH, and Don Jacob, WB5EKU. Check-ins are welcome, so see you on Packet real soon. There are more surprises ahead. Stay tuned to Crosstalk for the latest Packet News!

#### NEW MEMBERS -- OLD MEMBERS

Welcome to the Club:

Bill Moulton, WA6PMW, a ham since 1979 and holder of a Technician license and an ARRL member too.

Steven Ng, N6IQA, a ham for 2 years and holder of a General license, who is ready to help out at the next Field Day. We'll put you to good use Steve!

Charles Barnett, WB6ZIA, a ham for 20 years(!) with an Advanced license, an ARRL member and ready for Field Day too.

Jeff, N6JI, and Sara, KC0HU, Stuart who have recently moved to So. Cal. and are getting used to the traffic patterns in the morning and evening while conversing on the W6TRW repeater.

Robert Smith, KF6II, a ham for 18 years and holder of an Advanced ticket who is also willing to help out on Field Day!

Welcome back to the fold, Robert Block, KB6FBV, who missed the Crosstalk so much he just had to get back with the TRW/ARC.

Hope to see some of you at the next Club meeting!

Bill Dews informs me that badges have been ordered and should be available at the next meeting for Ralph, W6TUQ; Bill, WA6PMW; Steve, K8BKNZ; Charley, WB6ZIA and Gary, KG6JP.

A person's religion is not what he or she professes to believe; it's reflected in the way he lives.

John Luther