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ORANGE COUNTY AMATEUR RADIO CLUB

P.O. BOX 3454, TUSTIN, CA 92681

VOL. XXXVI NO. 10

P.O. BOX 3454, TUSTIN, CA. 92681

October 1995

Prez Sez ...

By Jim Roberts, N6XTJ

I understand that I missed a very good Weak Signal Society conference. I hope some of you will get involved with this group, Chris, KJ6ZH, can give you more information. It is a lot of fun. My transmitter hunting has introduced me to how far 2 meter signals can be worked. I once started a hunt on top of Palos Verdes and found the transmitter just N.W. of St. George, Utah (even came in 2nd). That was an FM signal, and I clearly heard it on P.V. and at the top of the Cajon Pass. I was using the sideband receiver to hear it though. You would be surprised how far you can work on 2M sideband with just a few watts and a good beam. There is a lot of fun there and everyone has the privileges to use it.

Well, October is on us and the year is quickly approaching its end. This month is the Club action. Please examine the items you may wish to part with and bring the best to our next meeting. The rules are the same as last year. There will be help available to get things up to the second floor. However, if they are too large to fit into the elevator they will have to be viewed in the parking lot.

Next month is our election. If you have an interest in running for a position please let Bud, Tom or Lloyd know soon. The phone numbers for both Bud and Tom are on the officers banner. If you know someone that you think would do a good job for the club and that is willing to do it, give one of the nomination committee a call. My thanks to the nomination committee for their work.

The Day of the Christmas party was changed it will be Sunday, December 10, at Marie Calinders. This is on First Street in Tustin, beside the 55 Freeway. More will be published on this later.

Due to the fact that our Secretary was absent from the breakfast, and, all persons there were thinking that someone else was doing the recording.
Their for this page is partially blank.

By cable station two weeks after Marconis first transatlantic transmission.

1995 Board of Directors

President Jim Roberts ... N6XTJ . 310 986-0121
Vice President . Cindy Hughes . KC6OPI ... 971-3448
Secretary Don Hughes..... KC6ONZ .. 971-3448
Treasurer Frank Smith WA6VKZ ... 838-3180
Activities Steve Raemussen KE6NAH .. 630-3305
Membership Bud Barkhurst .. WA6VPP . 774-6361
Public Relations Jane Breller.KC6TAM. 310 866-2077
Tech Committee Tom Thomas .. WA6PFA .. 771-2917
Member At Large Chris Breller..KJ6ZH. 310 866-2077
Member At Large Bob Buss KD6BWH ... 534-2995

Club Appointments

Club Historian . Bob Evans WB6IXN 543-9111
W6ZE Trustee . Bob Eckweller . AF6C 639-5074
RF Editor Cindy Hughes .. KC6OPI 971-3448

Dues

Regular Membership ... \$12.00
Teenage Members 6.00
Additional Family Members \$5.00 each
Optional Club Badges5.00

Dues for new members are prorated quarterly from January of each year. Family members must reside at the address of a Regular member. One RF is sent per household.

****** NOTICE ******

ORANGE COUNTY AMATEUR RADIO CLUB

ANNUAL AUCTION

OCT 20, 1995

Auction Rules

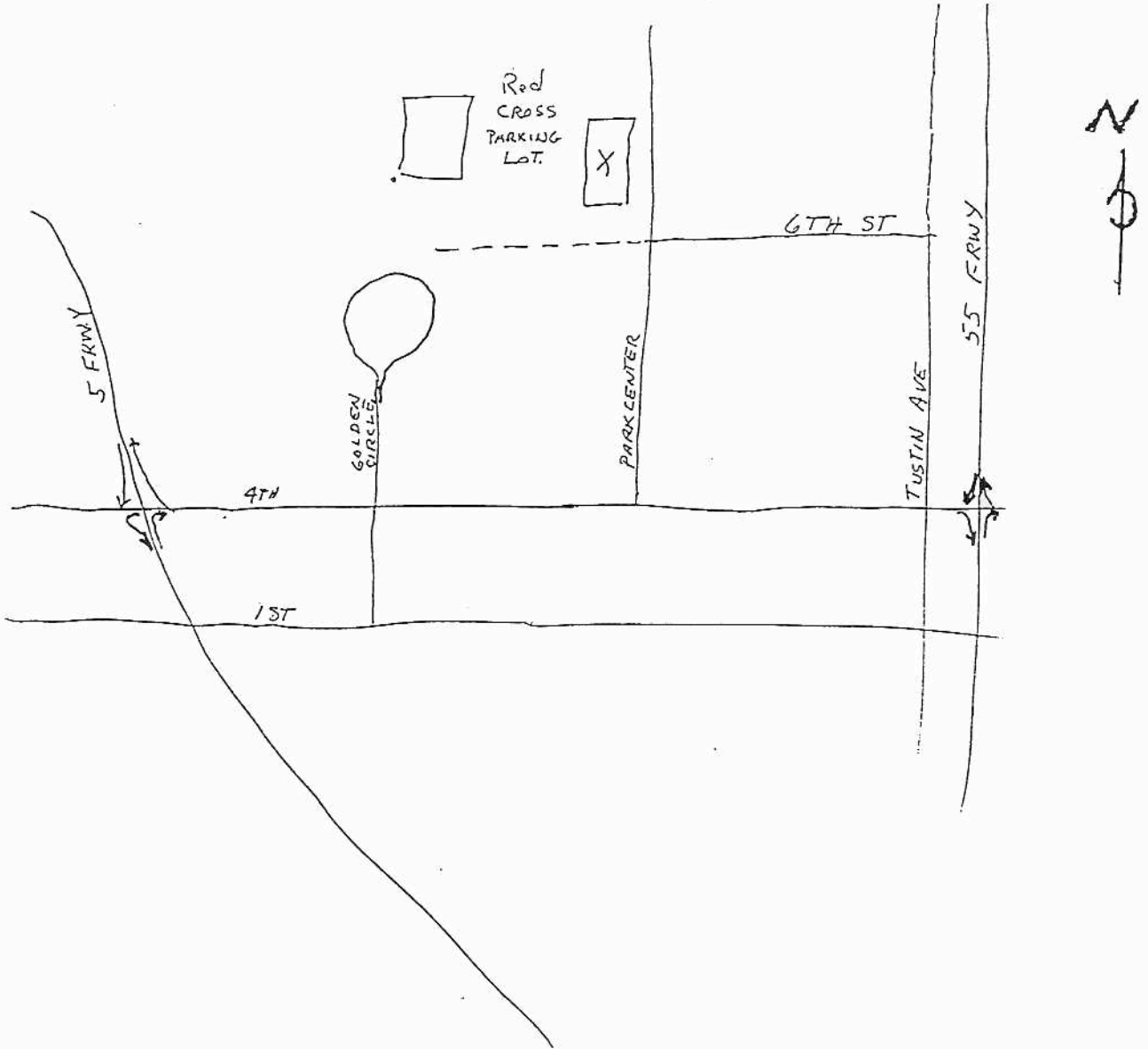
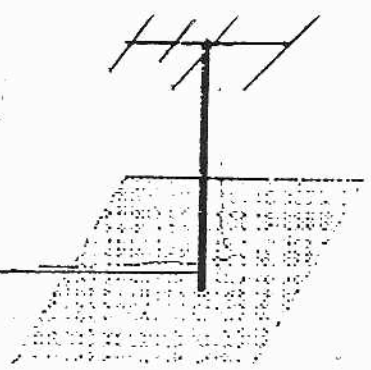
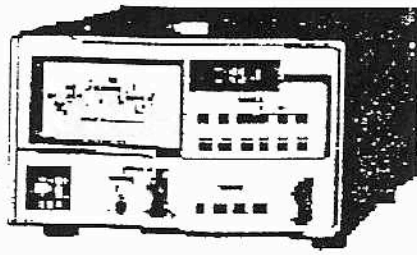
The OCARC Annual Auction will take place on Friday, October 20, 1995 at 7:00 PM at the American Red Cross facility located at 601 N. Golden Circle Drive, Santa Ana, CA. All buyers and sellers are welcome. The following rules for the auction will be in effect:

1. Only Ham Radio or electronic equipment / items shall be auctioned. (i.e. no fishing gear but if your radio is classified as a boat anchor, it is welcome.)
2. Buyers and Sellers must register at the door with the club treasurer.
3. Only 3 items from a seller's lot will be auctioned after which the auctioneer will move on to the next lot. Sellers should number their items in the order they want them auctioned and indicate a minimum bid on the form which will be provided when they register at the door. After the first items of all lots have been offered for bidding, the auctioneer will go back to the first lot, auction the next three items and move on to the next lot.
4. Auction bidding will take place as follows:
 - a. \$0.00 to \$5.00 bidding will take place in \$.50 increments.
 - b. Over \$5.00 and up to \$50.00 bidding will be in \$1.00 increments.
 - c. Over \$50.00 and up to \$100.00 bidding will be in \$5.00 increments.
 - d. Over \$100.00 bidding will be in \$10.00 increments.
5. Payments for items are due by the end of the auction and shall be by cash or check with the appropriate ID. No two party checks are allowed. Disbursements to sellers will be by check only. Sellers will be charged 10% of the selling price for items sold by the OCARC.
6. A special table will be set up for donated items. The profits of donated sales will go to the OCARC.

We welcome all buyers and sellers hope they will have an enjoyable and profitable time.

****** NOTICE ******

THE
AUCTION
IS
HERE!!



NETNEWS

9/6 15m phone net - W6ZE/AF6C, operating once more frm his shack, checks in NG7D, VFC, NGO, COJ, HHC, & IXN, who went to sleep at the switch! AF6C-tnx NGO & HHC fer all the help in putting up the refurbished tower & ant. at the QTH! VFC hears all OPs FB tonite! So does IXN! COJ misses the Club Bfast. And AF6C tells Dave that UC is looking better, even though he still has that `antenna arnd his waist! And COJ slowly recovers frm the `15 stitch' hand injury while at work on the tower and ant.! IXN falls asleep at the rig & checks in late! HHC, lamenting the `hot/dry, hot wet' WX since his return frm Carmel, is off on another backpacking venture near Visalia this weekend! NG7D keeps a low profile during the hot WX as John tunes arnd the AM band on the old, refurbished 1935 Philco!

9/6 2m phone net - W6ZE/IXN checks in BPX, ZH & TAM, NG7D, VFC, RE, VDP, QW, PZF, AF6C, TWA, & BWH. The car `konks out' on ZH & TAM!..The water pump goes, & a head gasket blows!..Wid a quote of `2Gs' fer repairs, Chris looks arnd fer a better deal. VFC says the Head may be warped! And AF6C also questions the exorbitant quote fer repairs! ZH & TAM hve a gud time at the Convention aboard the Queen Mary wid IBP & IBR last weekend. And NG7D, knowing abt cramped space on the Queen Mary, listens wid interest as OPs dicuss meetings! ZH has 99 cards fer 80m DXCC, works Easter Is. last nite on 80,...now say a `lil prayer fer the QSL card, Chris! BPX has the `toe pressure' test next Mon. If all goes well, Wyatt will hve knee surgery on the bad leg in the near future! In the meantime, the Frig `passes away', so Blanche & BPX get a new one last Sat.! VFC mentions Special Events stations worked last week..WW2END on 20m, the Intrepid on the E. Coast, plus others! And VFC doesn't make it to the Convention. But VDP & QW fill Dennis in on Convention news! RE congrats OPs working the Special Events stations. And wid ARRL staff vacations, ARRL Bulls. are few & far between fer now. RE & XYL handle the heat & humidity wid 2 air condx and backup fans! VDP says meeting rooms were too small at the Convention. The 6m room was absolutely full! And the Wayne Overbeck talk was also in a bad room. VDP liked the commercial displays arranged on three different levels! Parking was plentiful & cheap! Larry's rating: Average! And Larry works the Special Event station at Bremerton, and the DX station on Easter Is. QW `falls in love' wid the EICOM 775 wid its 220 W, DSP, & beautiful readout, at the Convention! Rolf will clean out the garage, & then its off to the Swap Meet wid VDP, to get rid of the excess! And Rolf also works WW2END on 20m. PZF `flies in & flies out', and TWA says the winter tomatoes are in blossom! At least the heat & humidity are gud fer sumthing! And Charles works VI50PEACE, in Australia, 4 differet times on Aug. 4.

9/13 15m phone net - W6ZE/AF6C checks in NGO, IXN, VFC, COJ, & RE. NGO & AF6C `get their ears lowered'. And Bob's 240Z passes smog inspection! Kei has a tree `re-arranging' his PVC sprinkler lines, and NGO, wid mucho heat in the shack, talks briefly wid Kaz on 20m meters today. AF6C hears VFC, QRP, abt Q4 or 5! IXN hears Dennis weakly in the QRN! And AF6C expounds the attributes of `Army Oil' fer cleaning switch contacts! Ida will try COJ's XYL recipe fer pickles soon, & COJ offers AF6C his climbing belt if Bob needs it! Bob still has a high SWR on 15m! IXN stays home wid his papa, who just got home frm the hosp. frm a pneumonia attack.

9/13 2m phone net - W6ZE/IXN checks in BPX, RE, QW, VFC, COJ, NG7D, ZH & TAM, VDP,

EMQ, & BWH. BPX has a leg & toe test in prep. fer knee surgery. Wyatt will get the results of tests & further action next Mon. RE will 'decapitate' two trees this Fri.! And Alex tells abt a coordinated Ham effort wid SETI people to attempt to detect signals frm other intellegence in interstellar space! If interested, see p. 37 in Aug. 1995 QST! QW will pay off the Spokane property, cleaned out a shed on last 2 cool days, & gets ready to go off to the Pomona Swap wid VDP. VFC using his Argonaut & loop ant., works 15m QRP tonite! And now Dennis saunters off to Rehab school as he prepares fer 'a new line of work'! After breaking off a lead & resoldering it, NG7D gets the QRP rig working agn! And John completes a 'TWOFER 3' board this week. And John says 20m propogation was gud off to the north this afternoon! BWH, mobile, checks in 15m out frm the QTH. Bob airs Newslne fer OPs, who remain on freq. after net. BWH throws Astron pwr switch...no power!...Bob borrows marine battery frm auto...And NEWSLINE is heard!! TNX, BOB!! ZH, wid stabbing back pain on Mon. morn., is off to the hosp. fer kidney stone surgery! A scared TAM brings Chris home Tues. afternoon! ZH put the 621 in the Kwd Hosp. It wudn't transmit on high power! And ZH & VDP warns OPs to watch COMSPEC dip switch instructions...Use a zero fer ON, and a one fer OFF!!(if boards don't work after you install them!) VDP gets sum DX wid XR0Y on Easter Is., and XR0Z on Sala y Gomez Is.! Larry picks up a familiar Crystal Tester at the TRW Swap Meet. Says Larry, "Now what did I do wid the schematic?!" EMQ is busy wid computer classes, learning all abt pwr supplies now! And Victor has truble trying to keep the roses blooming in this hot WX!

9/20 15m phone net - W6ZE/AF6C checks in HHC, IXN, COJ, VFC & TWA. HHC shakes, rattles & rolls while sitting at a table when the 5.5 EQ, centered 10 mi. N. of Ridgecrest, rolled thru! And Ken transfers the Kwd 741 frm the minivan bk to the Base station. Hangers clink back & forth as AF6C finds himself in the closet during the Event! COJ tells AF6C that rotor cables are ready to go, & Dave enjoyed program on Africa at last Club meeting. IXN still wants to know if the volcano mentioned in the program was Miragongo! VFC, knee deep in homework, tells OPs he heard the low freq. rumble before the quake rolled thru! HM!..Can Dennis hear the VLF notes of the contra-bassoon in a symphony orchestra?! TWA & IXN felt nothing in Santa Ana!

9/20 2m phone net - W6ZE/IXN checks in BPX, VFC, VDP, BWH, RE, QW, EMQ, ZH & TAM, BWH, ESD, & TWA. BWH airs a disturbing Newslne...Seems that Congress will cut FCC funds by at least 20%, wid possible deleterious effects on amateur radio! And BWH tells ZH that a package has been left in his 'mailbox'! BPX will hve knee-replacement surgery. Blanche will keep us informed! OPs offer words of encouragement to VFC, telling him that doing the homework will pay off. What he learns, they can never take away from him! VDP chases after Juan, CE0ZZ on 17m, but doesn't catch him, YET! And VDP & ESD enjoy the DeVry Swap Meet last weekend. VDP feels the EQ in Costa Mesa, but RE doesn't get a ripple in Tustin! And RE, running air condxs during the hot spell, gets a triple size electric bill! Too busy in the shop & completely worn out, QW sleeps thru the EQ! But Rolf did make it to an interesting Orchid Society meeting last nite! EMQ busies himself preparing spaghetti fer dinner, doing homework, & enjoying his now-blooming roses once more! TAM, comfy in her chair, watches TV, while ZH tells OPs that OPI is with the Red Cross in the Virgin Is. disaster. Cindy will be gone over a month! And on 160m, Chris works XR0Y, on Easter Is., & Alaska. ESD, over at the Acapulco Restaurant, doesn't even see his coffee ripple during the EQ! Wid the dryer spinning the laundry, Bob tells us that he is once agn playing golf 2x a week! And TWA, ret. Plant Engineer frm Rancho-Santiago College, tells us that he, too, worked XR0Y, X0RY, and OR0Y, on the last day, today, at 1500 hrs! And Charles says the winter

tomatoes are loaded wid blossoms!

9/27 15m phone net - W6ZE/AF6C chekcs in NGO, IXN, & HHC. HHC gets home frm San Jose just in time to check into net. And Kei is glad to hve XYL, Ida, bk home, too! IXN tells OPs the power was off fer abt a half hour this morning, & AF6C & IXN discuss lunar-gravity effects on earthquakes. And, HHC calls 'Ma P. Bell' to report AF6C's dead landline! Falling asleep at the mike after a hard day's work on machinery, NGO 73s!

9/27 2m phone net - W6ZE/IXN checks in ZH & TAM, BPX, PZF, QW, VDP, ESD, BWH, & RE. Wid OPs watching closing arguments in the 'O. J. Soap Opera', we had a smaller checkin tonite! BPX is off Fri. to St. Joes fer lab tests. Then Mon. morn, at 10:00 am, it's to the O. R. fer knee replacement surgery! Hurtin' TAM & ZH are off to a 2m SSB Group meeting. And Chris gives his new SQLOOP, horizontally polarized, omni-directional ant. 'high marks' in its first trial! ZH says OPI is wid the Red Cross in Puerto Rico working the hurricane disasters. And TAM needs a check frm VKZ fer Christmas Dinner reservations. QW loses an employee to the Criminal Justice System, and Rolf has a burglar alarm system installed. Wid 6m dead, & the 850 going to the shop, Rolf plans to fly to Spokane arnd Oct. 18 fer a home show. VDP misses the longer daylight of summer days. And Larry goes to the ACP Swap Meet last Sun. & picks up sum power cords. Larry will attend Club Auction, then it's off to Vegas fer his son's Karati Tournament! ESD has completed most of the 'summer work' arnd the QTH, which will definitely enhance the golf sched! PZF's H&R Block office is rifled, wid 8 computers & printers 'very neatly' removed, John commenting on how very tidy these bandits were!! BWH announces the Diabetes Walkathon at Mason's Park in Irvine this weekend. Corky Corcorran is handling communications, and BWH & RE will participate. Time: 8:00 am 'til 12:00 noon. BWH airs Newslne...& IXN comments that Hams shud hve been involved in the SETI program (intelligence in radio sigs frm outer space) a long time ago!! RE checks in & tells OPs most ARRL bulletins were covered in Newslne.

Comparison of Newer Coaxial Cables

Type	Diameter		Attenuation (dB/100 feet)		Average power at 432 MHz (watts)	Price per foot (\$)
	mm	inch	432 MHz	1296 MHz		
5D FB	7.3	0.299	3.7	6.7	320	0.56
RG-8 Foam	10.3	0.405	4.3	7.8	320	0.39
9913 Types	10.3	0.405	2.8	5.0	350	0.50
CQ 1001	10.3	0.405	2.7	4.8	420	0.69
8D FB	11.1	0.436	2.6	4.7		
Hardline	12.7	0.500	1.5	2.7	700	1.70
CQ 1006	12.7	0.500	2.2	3.9	550	
10D FB	13.1	0.515	2.1	3.7	750	1.30
CQ 1009	15.0	0.590	1.7	3.1	750	1.65
Hardline	22.3	0.875	0.8	1.5	2500	4.55

Note: The table provides approximate figures needed to compare various popularly sized coaxial cables. Nippon Tsushin Densen manufactures the 5D FB, 8D FB and 10D FB cables in addition to larger and smaller types. Comet currently distributes only the 5D and 10D. Belden manufactures 9913 cable, but 9913-type cable is available from many distributors. The CQ (Certified Quality) cable series is distributed by The Wireman and Radio Works. The stranded inner conductor versions are listed, but specifications are identical with the slightly lower-cost solid conductors. All prices are those quoted by the distributor or advertised in US publications.



T.O.R.R.A.

TOURNAMENT OF ROSES
RADIO AMATEURS

P. O. BOX 93124
PASADENA, CA. 91109-3124

(213) 257-3293 - KRB6IA

It's that time of year again!

If you have not provided your updated questionnaire for participation in the 1996 event, the address section of this flyer states "PLEASE RETURN INFO FORM". Please complete and return your sheet today with your \$5.00 dues to reserve your assignment if you have not already done so. Give extra questionnaires to friends if you're already signed up (address section indicates "INFO FORM ON FILE"). Pre-paid mail orders for TORRA pin sets must be received no later than Sept. 22nd for delivery to you at the September 30th meeting. Pre-paid mail orders for hats, shirts and TORRA jackets must be received by September 30th for delivery at the Credentialing Meetings in December.

We have committed to supplying Tournament with the roster of assignments by the first of December. If you are unable to participate in the upcoming parade but wish to remain on the mailing list you must complete the questionnaire and so indicate.

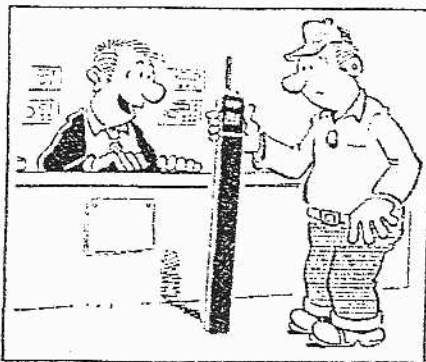
Please mark your calendars for these upcoming events:

- | | |
|--|--|
| Saturday September 30th
1:00 P.M. | Orientation Meeting at Tournament House BRING NEW MEMBERS |
| Saturday Nov. 4th
10:00 A.M. to 4:00 P.M. | Radio "Tune-In" Tournament House parking lot
(get your radios checked out early) |
| Thursday Dec. 7th
7:00 P.M. | Credentials Meeting at Tournament House
(you must attend either this one or the one on the following Wednesday) |
| Wednesday Dec. 13th
7:00 P.M. | Credentials Meeting at Tournament House Final Meeting '95 . This is
the last chance to get your packet before it is reassigned |
| Thursday Dec. 14th
6:00 P.M. <i>to 8 PM</i> | Tournament of Roses Reception After 5 Dressy Attire |

A formal invitation for the Reception will be mailed to all members who are scheduled to participate in the 1996 parade. This is an important opportunity to meet with Tournament officials to discuss with them their exact needs and how you can assist them. **THERE WILL BE NO CREDENTIALS AVAILABLE DURING THIS EVENT!!!!** Do not even attempt to contact the scheduling people to try and make an exception. Be sure to R.S.V.P. your invitation.

Please also make a note to listen in on the TORRA.Net. Any questions or problems you may have can be brought to the steering committee's attention during these nets. Vital information to our membership can also be passed along to you during these nets. Net is currently conducted the **last Thursday of each month on 147.27 at 7:27 P.M.** (note freq. & time) Net will be weekly after Thanksgiving and nightly after Christmas. Be sure to join us!!!

TALK UP TORRA ON THE AIR & AT YOUR CLUBS. WE NEED NEW MEMBERS!!



IT'S THE NEW BENTONDD HT-450 HANDHELD WITH THE "ALL-WEEK-LONG" BATTERY PACK.

ATOMIC CLOCK FOR WINDOWS

Many hams need dead-accurate time—whether for contesting, meteor-scatter VHF/UHF schedules, or grayline DXing. Parsons Technology offers their Atomic Clock for Windows software to help keep your computer clock right in sync with the most accurate time sources available. You can preset Atomic Clock to dial the nearest telephone time service (or the time service of your choice) at regular update intervals, or you can call and perform a clock set on command.

The software will display local time, Coordinated Universal Time, local sunrise and sunset times, lunar phases, and much more, in 12- or 24-hour time. It will give you a quick look at local times in almost 3000 cities worldwide. And, of course, it does the pedestrian things, such as resetting the hour at the spring-forward and fall-back times of year.

Atomic Clock for Windows requires an IBM or compatible PC, 4 MB RAM, Microsoft Windows 3.0 (or later), 1 MB hard drive space, and a modem for the time service updates.

Parsons has several other nifty software packages, many in the \$19 and \$29 price class, that look quite interesting, as well as a 19.2-kb/s modem that sells for \$169. Ask for their current Software Collection catalog for some interesting reading. Now's the time to start laying on the Christmas gifting hints.



The Best-Kept Secret?

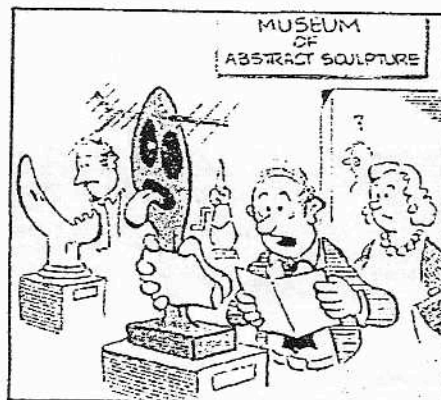
Despite the missionary zeal of their enthusiastic proponents, amateur satellites remain grossly under-appreciated by most of us.

You have heard a lot about AMSAT's ambitious Phase 3-D satellite project, scheduled for launch in 1996, and you'll hear more about it in the months to come. Phase 3-D is an important project, deserving of support. But you don't have to wait to enjoy the pleasures of satellite operation. Plenty of opportunities are available *now*, with satellites that are already in orbit! A Technician license is all that's required to enjoy reliable world-wide communication.

Reading about satellite operation can't possibly convey what it's like. Listening is much better. The first step is to know what satellites are available, and what frequencies they transmit on. Next is to know when a satellite will be in range, and where you should point your antenna to hear it (if you *need* a directional antenna; for many satellites, you *don't*).

Satellites have a reputation for requiring a lot of hardware (and software) to use them to full advantage. That's *true* only if you feel compelled to be able to do *everything* that satellites have to offer. One of the most popular games these days is to use a Russian satellite, RS-12, that has a 15-meter uplink and 10-meter downlink. This requires an Extra or Advanced Class license, but only ordinary HF hardware. Like most satellites, a new Russian one, RS-15, can be used by any Technician; the uplink is on 2-meter SSB or CW, and the downlink is on 10 meters. You can listen to either RS-12 or RS-15, or RS-10 as well, with any 10-meter receiver.

Do the ads for multimode VHF/UHF rigs give you sticker shock? Forget it. To hear AO-13, which offers the best range of any satellite now in orbit, all you need to add to a simple HF receiver capable of tuning SSB is any old 2-meter converter of the kind that clutter the tables at every flea market, plus an inexpensive preamp. Hooked to a small beam, you should hear more than enough to make you want to go further. The first time you eavesdrop on a relaxed ragchew between amateurs in Australia and Nebraska on AO-13, with little fading and no interference, you'll be hooked!



THIS IS CALLED "RADIO AMATEUR RESOLVING THE PROBLEM WITH SECALCIBRANT NEIGHBOOR."

This space
For
Late
Breaking
News

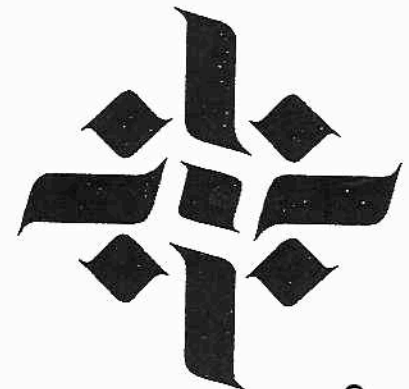
Who sent this message —
When was it sent -----

Best Christmas greetings from North
Sydney,
Hope you are sound in heart and
kidney,
Next year will find us quite unable,
To send exchanges o'er the cable:
Marconi will our finish see,
The cable co's have ceased to be;
No further need of automatics,
Retards, resistances and statics.
I'll then across the ether sea,
Waft Christmas greetings unto thee.

Came the reassuring British response:

Don't be alarmed, the cable co's,
Will not be dead as you suppose.

Find answer elsewhere in
the RF



Club Nets

Band	Mode	Day	Local Time	Freq. MHz	Net Control
15 Meters	SSB	Wednesday	8:00 PM	21.375*	AF6C
2 Meters	FM	Wednesday	8:30 PM	146.550 Simplex	WB6IXN
40 Meters	CW	Thursday	7:30 PM	7.135*	WA6RND

(Listen for W6ZE, Net Control) *Plus or Minus QRM

General Meeting

September 15
October 20
November 17

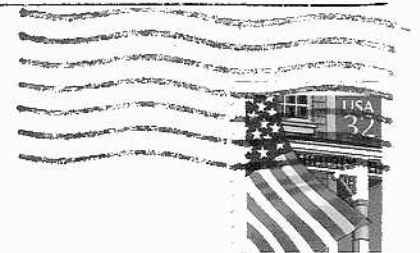
General Meeting is the 3rd Friday of each month at 7:30 PM.
American Red Cross
601 N. Golden Circle Drive, Santa Ana, CA
Talk in Frequency 146.550 simplex
Major Cross Streets: Fourth St. & Tustin Ave.

Board Breakfast

October 7
November 4
December 2

Board Meeting is the 1st Saturday of each month at 8:00 AM.
The Wildflower Restaurant - Members & Visitors are welcome.
Grand Ave., Santa Ana, CA
Exit the 5 freeway at 17th Street, go east to Grand Ave. Go north on Grand; or exit the 22 freeway at Grand/Glasell. Go South to restaurant.

Orange County Amateur Radio Club, Inc.
P.O. Box 3454
Tustin, CA 92681



First Class Mail

personal copy

YOUR

personal copy

Time Dated Material.
Please Rush!