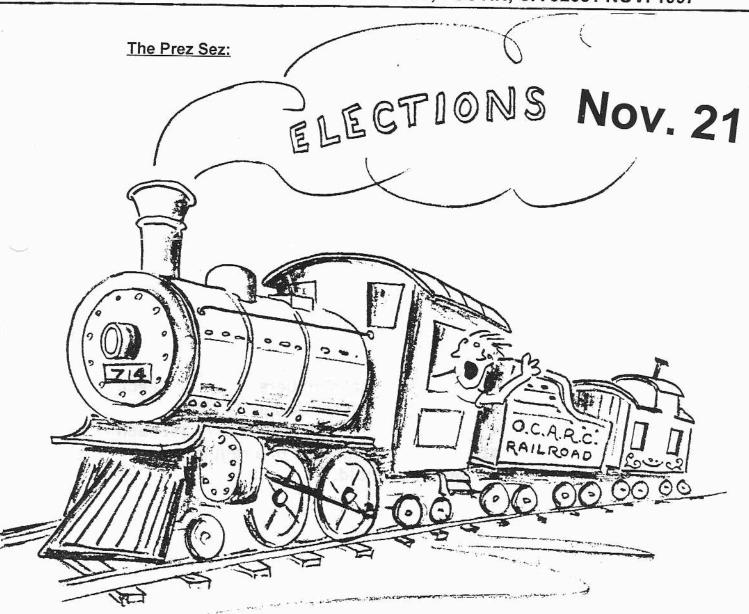


ORANGE COUNTY AMATEUR RADIO CLUB VOLUME XXXVIII NO. 11 P.O. BOX 3454, TUSTIN, CA 92681 NOV. 1997



"ITS RAILROAD TIME"

# 1997 Board of Directors

President Frank Smith	WA6VKZ	838-3180
Vice President Art Sheldon	AD6B	997-3735
Secretary Jim Winn	KE6UCH	731-2732
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Public Relations Larry Beilin	K6VDP	557-7217
Tech Committee Larry Hoffman	K6LDC	636-4345
Member at Large Bob Eckweiler	AF6C	639-5074
Member at Large Bob Tegel	KD6XO	531-0926

## **CLUB APPOINTMENTS**

Club Historian	Bob Evans	WB6IXN	543-9111
W6ZE Trustee	Bob Eckweiler	AF6C	639-5074
RF Editor	Bud Barkhurst	WA6VPP	774-6361
Refreshments			

## **DUES**

Regular Members	\$15.00	Additional Members	\$7.50 each
Teenage Members	\$ 6.00	Optional Club Badge	\$5.00 each
Dues for new member	ers are pro	-rated quarterly from Jan	uary 1st each
year. Family member	s must res	side at the address of a re	gular
member. Only one R	F is sent p	er household.	



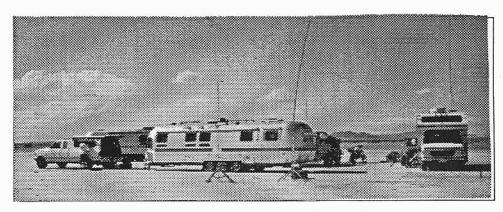


# The October 1997 Bi Annual "Not so DX-pedition and Survival Test

The weekend was October 10th, 11th and 12th. The place was El Mirage Dry Lake in the desert south of Edwards Air Base and west of Victorville. The weather on Friday morning was great and the first contingent of communicators arrived at the site on the dry lake bed at about 0900 local. This was Art-KE6WOX, Larry-K6LDC and Don (a non-licensed guest). The three went immediately into action putting up the antennas that would start the festivities. The temperature was warm, there was a breeze and nothing could be better, or so they thought. At about 11 A.M. the wind came howling along. The antennas held up. They consisted of a 40 meter inverted V and a 6 meter rhombic as well as a 6 meter vertical with ground plane.

Many contacts were made on 40 to local and the usual Pacific west stations. Try as they might. the antennas just wouldn't load on other bands using the automatic tuner in LDC's FT-920.

About 3 or 4 PM the Prez, Frank WA6VKZ arrived and soon after came his friend John, N6RIU (I think! I can't remember calls or names). These two showed up in their mighty silver Airstreams. Soon after came



Looking west at our camp. Plenty of room for antennas

Steve, KE6NAH. That evening we had a group pot-luck dinner with John hosting in his 36 foot trailer. Lots of war stories, jokes, food and beverages prior to staggering through the howling wind to our sleeping facilities. The temperature had dropped to the low forties; it was colder than a well digger's behind in the arctic. NAH forgot his sleeping bag and it was too windy to try for a tent so NAH, WOX, LDC and guest Don slept in LDC's rig (nice and toasty, with all the comforts of home).

On Saturday morning, Larry, K6VDP showed up with his trusty ICOM and an older model Harvey-Wells antenna tuner. That made a difference with LDC's rig and some communicating on higher frequencies took place. Very little DX was worked; LDC worked Japan and Guadalajara, Mexico. The DX may not have been

Prez Frank, VKZ and Steve, NAH putting up Frank's antenna standards.

great, but the noise level was non-existent for all intents and purposes.

WOX, LDC and VDP tried numerous antennas that VKZ had brought. We had very little luck tuning them, but it was a lot of fun trying. The wind was horrendous all day, hampering efforts to make antenna adjustments.

Saturday night was very (Please see next page)

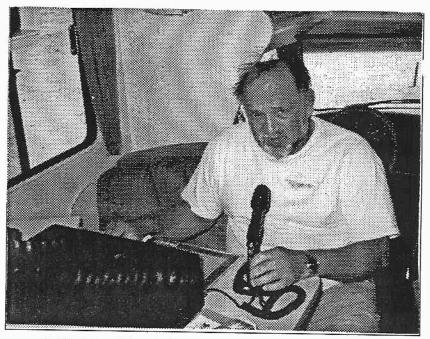
# Not So DX-Pedition (cont'd.)

much like Friday night, but

much colder. We again had dinner in John's rig. The only one big enough to accommodate all of us. Don't you just hate this roughing it?

About 2 AM the LDC rig was rousted out of bed with the alarm being sounded by WOX that it was raining. Oh boy! If it rains hard and long the dry lake won't be dry. Now the decision, do we stay on the lake or do we remove all the antennas and pull the rigs off of the lake bed and onto the sandy loam of the desert? We all remained cool and decided that it wasn't raining hard enough yet and we would wall

raining hard enough yet and we would wake up in an hour or two and make the decision. It was



LDC Roughing it in the cold and windy desert.

the right thing to do. The rain stopped and it was so windy that by morning all the moisture had evaporated,



Sunday morning with the entire crew plus pooch

there was no evidence of the rain and all the antennas were remaining in the up position. We did something right!

Sunday morning signaled that it was time to take down the antennas, pack the gear and head for home. I truly was a great trip. The adversity made it more fun in retrospect. Everyone had a good time, especially the pooch.



Mon

L to R. WOX, VDP and Guest Don at the 6 meter rig

### NETNEWS by WB6IXN

10/1 10m PHONE NET - Please note that tonite we shifted the 15m Net to W6ZE/AF6C checks in IXN, WOX, AD6B, VDP, HHC, RE, PFA, VFC, and BWH...Gud check-in, OPs! AF6C & HHC get a book autographed by the author, and Net starts a 'lil late. HHC gets broken in on AF6C's Kenwood, & IXN can't hear AD6B. WOX tells IXN that the mysterious box in the telephone office is a strong motion accelerograph. Art is using a Radioshack 10W 10m Realistic rig, and WOX will attend the Club VDP plans to attend the Mirage Lake gathering on Sat. and stay overnite. AF6C will rush home frm the Club Bfast Sat. to watch a HHC tells OPs abt the mystery writer and the book that football game. he and HHC had signed. VDP is on the vertical tonite instead of the loop ant. And Larry finishes a singel 5/8 wave 6m vertical ant., telling OPs not to forget the CA. QSO Party this weekend! RE measures a 1/2 inch of rain in the rain guage frm tropical storm Nora. checks in wid audio rumble in the background. And Tom can now work RTTY wid the new rig! VFC, continuing work on the 6m amplifier, plans a trip to the new QTH in Arkansas this weekend. IXN hears BWH gud at the beginning, but BWH slowly fades away in the QRN! However, BWH improves his sigs to S9...Find out how in the 2m Notes!!

10/1 2m Phone Net - W6ZE/IXN checks in RE, VDP, PFA, KFW, TWA, VFC, WOX, BWH, HHC/m, AD6B, and UBK. OPs discuss successful operations on the 10m Net, and RE says frm the 12th to the 24th, we had a high of 48 and a low of 15 sunspots. Alex says the recent rain raised grass `on the Plantation', requiring a cutting operation! RE also says you can hear MIR/Atlantis audio on 224.94 MHz and 458.500 MHz. VDP clears up audio distortion on 10m by turning off the speech processor, and Larry builds a 6m open wire tuner fer the Mirage Lake meeting this weekend. VDP reports that BWH's 10m sigs went frm S2 to S9 after Bob switches over to the Super System! BWH airs Newsline, frm which we learn that the `Big Ear' radio telescope ant. at Ohio State Univ., which discovered LGMs (Little Green Men), actually Pulsars, built by W8JK, John Kraus, will be raised in favor of a Country Club!! Newsline mentioned an intense dust particle cloud that the Earth will pass thru arnd Nov. 17, 1998! PFA cures the rumble on 10m by turning off the TV set, turning off the speech compressor, and turning dwn the mike gain. Also Tom can copy CW automatically wid the new rig! also tells OPs that 10m has been open to Honolulu and Australia. prepares an antenna fer 10m, & Chris tells OPs rain water is a lot better than city water fer plant growth! TWA tries to break in on 10m, and Charles tells IXN that he got a bonus of 3 nice tomatoes frm a plant he recently discovered. Also TWA is interested in working with the blind!! HHC/m `flies in & flies out', wid nice sigs. XYL will fly to Little Rock over the weekend and buy sum furniture fer the new QTH. And Dennis continues work on the SB-220 conversion to 6m fer 1 KW operation at the new QTH. Also Dennis reports South American stations heard on 10m, and European stations heard on 15m. UBK checks in after 'dipping the harmonic' in the bath water. And AD6B 'flies in and flies out'.

10/8 10m Phone Net - W6ZE/AF6C checks in VDP, PFA, IXN, HHC, WOX, BWH/m, XO, TWA, RE, & NT. VDP prepares fer the Club auction in next week, and Larry says WOX is a 'lil weak at the QTH tonite after VDP tells OPs that the power was off fer abt 45 min. at the QTH! Wow!..Four Bobs check in, and ZE declares this the 'Bob' Net!! religiously watches the 10m band scan on the new rig, hearing the East Coast Talking wid Hawaii, as Tom works wid a pentium laptop to load programs & get it running. IXN quizzes AF6C abt EQ materials, and IXN hears PFA armchair copy when Tom backs away frm the mike! HHC can't hear BWH when he's using the Supersystem, but IXN copies BWH better when he's mobile or working on the Supersystem, and Bob has Newsline ready fer 2m! XO finds being back on 10m refreshing, as Bob ends a bout wid pneumonia. IXN and ZE hear WOX well tonite, and Art gives IXN a Q5 tonite. AF6C smells something burning at the QTH...only a neighbor's fireplace! TWA can't copy too well thru the QRN, but tells OPs that 17m and 12m have been active! And Charles agrees wid other OPs abt putting an extra blanket on the bed these cool nights. negative copy on BWH frm the QTH rig. And Alex gives OPs the particulars on the new FCC form 900 for electronic application of wireless licenses. W6NT checks into Net after IXN switches over to 2 m .

10/8 2m Phone Net - W6ZE/IXN checks in AD6B, ZH, NG7D, RE, KFW, AF6C, JSV, VDP, TWA, BWH, WOX, PFA, and LDC/m. AD6B doesn't try 10m wid the bad mismatch, but Art only has 1 1/2 pages left to read in the manual fer the new rig. Also Art continues to pack household goods in anticipation for the big move after retirement! ZH gets bk frm a week in Indiana on Court business, and Chris announces that he has a check fer \$945, proceeds frm the Riverside ARRL Convention, fer the Club treasury...Congrats to all OPs who worked the Convention! AF6C tells IXN that W6NT checked into the 10m Net. BWH lends his services to the MS 150 Bicycle Ride last weekend, and Bob airs Newsline. NG7D checks in FB, then loses his battery. But John landlines IXN after Net, telling Bob abt his busy sched ahead, and getting chased frm his apartment while it gets fumigated. John will be at auction wid sum dgoodies! RE is enjoying the cooler WX, and Alex gives a recent 7 day sunspot report of 83 high and 25 low. KFW says 'Hi' to all OPs, and Chris doesn't hve his lowband ant fer 10m ready yet. JSV hears all OPs but NG7D. And EZS tries to grind cabbage in the insinkerator, clogging it. JSV spanks EZS and all is forgiven when the plumber uncloss the drain, jumping sky-high when he hears 'sewer thunder' outside the QTH! VDP gears up to take on the `white fly army' onslaught! PFA joins the battle, telling VDP & JSV abt sprays he bought at the nursery on Tustin Ave. And VDP tells OPs he has his 6m ant. tuner ready fer the Mirage dry lake outing. LDC tells IXN that Hurricane Pauline shudn't be a problem at the lake bed over the weekend, and LDC discovers sum new muscles after plywooding the QTH in preparation fer the new roof. TWA tells OPs abt fighting white flies wid stickum paper and mild detergent spray. LDC finishes 'RF' wid help frm WOX, and Larry turns the paper over to BWH. And LDC hears a 20m station in Nepal!

10/15 10m Phone Net - W6ZE/AF6C checks in JSV, HHC, IXN, VFC, WOX, VDP, BWH, TWA, and FMX. Great check-in, OPs! HHC reminds all abt the

upcoming Club auction Fri. eve., and Ken says Ida is ready to hve sum of Kei's gear picked up to be auctioned off Fri. eve. IXN gives HHC an armchair sig rpt, and Ken asks JSV if the smoke frm the Silverado fire darkened his day! AF6C joins JSV & IXN wid an erratic heartbeat now & then, and IXN says the Fontana 4.0 event was a new EQ! EZS both highly praise their new nutritional supplement, and Jim is slowly getting control of the white flies! VFC gets bk frm a furniture buying spree fer the new QTH in Arkansas, and will leave fer Arkansas wid another load of household goods on the 23rd. WOX reports on the Mirage Dry Lake Bed outing last weekend, and says OPs used VDP's ant. tuner to load one ant. on 15m. JSV tells IXN he got his `RF' this month. VDP says band condx at Mirage were bad, and Larry said ash fall-out frm the Silverado fire was bad at the QTH. BWH tries listening on the Supersystem, while xmitting frm the QTH. hear BWH weakly wid much white noise. Then Bob transmits on the Supersystem, receiving Q5s frm OPs. FMX gets new gutters & downspouts fer the QTH in preparation fer El Ninyo (wid this spelling, you'll say it right!). TWA has a different type of white fly on his bushes.

10/15 2m Phone Net - W6ZE/IXN checks in VFC, JSV, VDP, TWA, W5RI, KFW, BWH, HHC, and NG7D. VFC & PZF are off to Arkansas on the 23rd, and Dennis will attend the Club auction Fri. eve. BWH asks fer a comparison check of 10m reception versus 15m reception. Most OPs say they don't notice much difference. VDP gets his ticket renewed, and Larry says HCC is a mite weaker on 10m than on 15m. JSV tells OPs abt the excellent train ride ot Fayetville & Van Buren when he & EZS visited Branson, MO., and Jim asks abt the new Form 500 for electronic renewal of licenses. Jim is referred to the WWW/FCC.GOV website & told to use the Search Engine once there. VDP has a gud time at the Mirage outing last weekend, and BWH airs a vy interesting Newsline. KFW listens on 10m & says that AF6C is the strongest wid other sigs a 'lil weaker. W5RI, TWA, and HHC `fly in & fly out'. NG7D will be reimbursed for expenses incurred while his apartment was being fumigated. Now John is considering a delta-loop ant. fer 10~&~15m. John expects to attend the auction wid VES Fri. eve.

10/22 10m Phone Net - W6ZE/AF6C checks in VKZ, RND, WOX, IXN, BWH/m, and FMX. IXN suffers an SWR problem. AF6C landlines IXN and Bob says he will monitor the Net. RND monitors the World Series, tells OPs abt his trip to Woodbury, CT, to the old homestead, beautiful Fall scenery, visiting relatives, etc. VKZ asks ZE abt income frm the Auction, and AF6C discusses Eastern Fall beauty wid RND. WOX gives all OPs 5/7 & 5/8 sig reports, and AF6C tells Art he doesn't know whether CT is a maple syrup state or not. BWH checks in mobile wid the 440 rig in the auto wid gud sig rpts! FMX, an old Ohio resident, roots fer Cleveland in the Series. Paul moved to Ohio abt the time the Indians were in their last World Series!

10/22 2m Phone Net - W6ZE/IXN checks in VFC, RND, VDP, WOX, PFA, ESD, TWA, KFW, and BWH. VFC doesn't watch the Series as he and PZF will be off fer Arkansas at 4 am tomorrow! Denny reported a small 6m opening on Mon. to TX, CO, NM, SD, and to WA & OR in the eve. RND asks VFC his route to AK, and hopes Dennis will keep in touch after moving. John also informs OPs that VHF bands are beginning to open! VDP

builds a 6 ft. fence fer a customer, and has another job lined up. Larry enjoyed the Club Auction, buying an SWR meter that seems to work WOX, after moving things around in the shack, finds that pretty well. they don't work like they should. Art tells OPs not to ferget the Club Barbecue Nov. 2, and to read the FD Report in Nov. QST! spends Tue, of last week televising the Orange Fire to the Orange PD, so Tom doesn't check into Net last week...He was busy resting up on Wed.! Congrats on the public service, Tom! Now PFA must finish work on a troublesome ground rod that is doing battle wid a rock! joins us after busying himself wid travelling, dancing, playing golf twice a week, and a visit to Switzerland and northern Italy, where Bob barely missed the collapse of the St. Frances of Assisi Cathedral during an earthquake! BWH fills in IXN on details he missed on the 10m Net, and Bob airs Newsline fer waiting OPs!...Tnx, Bob. TWA says he's hearing OPs on 10m, 17m, 20m, & 12m... The New solar cycle has begun! And, Ashland trims Charles' pecan trees out of SCE high lines. KFW does household chores, goes out to dinner, & monitors the World Series.

10/29 10m Phone Net - W6ZE/AF6C checks in LDC, IXN (landline), RND, HHC, WOX, PFA, RE, & VDP. IXN phones AF6C that he will listen & take Net notes. Bob is still working on an ant. at the QTH. LDC reminds all abt 'the picnic in the park' this Sun. IXN can't hear Larry in the QRN on the 2nd go-around! RND has a lil' flutter on ZE tonite, and John says there is a lot of DX on the bands in the afternoon, like Chile, Madagascar, Honduras, etc.! And AF6C has prefix map fer John. IXN can't hear HHC in the QRN, but gathers that Ken got caught in the rain, snow, and sleet bk in Vermont, and caught a cold fer a bonus! AF6C says we were 2nd in our class in Orange County fer FD scores! AF6C & IXN both note HHC's shift in frequency during Net...Hmmm! Does HHC hve a satellite orbiting the Earth?! WOX wishes IXN gud luck wid the new ant. project. And PFA finally breaks thru the obstructing And Tom asks AF6C fer ZH's landline #. RE rock wid the ground rod! nurses the XYL along wid her intermittent stomach problem, and tells OPs that the XYL will hve a biopsy of a spot on her leg tomorrow. Then Alex gives the particulars on a new FCC Form 610 for use in Jan., 1998! VDP checks in near end of Net, too late fer IXN to hear Larry's comments.

10/29 2m Phone Net - W6ZE/IXN checks in WOX, AD6B, RE, VDP, RND, LDC, VFC, KFW, BWH, & WA6HCN, Ralph. WOX asks RND to give him a landline abt ZH's landline #. And Art gives OPs picnic particulars fer Sunday. BWH airs Newsline #1054. Bob has weak audio at IXN's QTH, but audio picks up after Bob does sum adjusting. AD6B doesn't check in on 10m as the SWR is too high on the Hustler ant. BWH & XYL are greeted by a possum who came into the QTH wid the cats. AD6B suggests possum pie' to Bob! Art's QTH has been sandblasted & re-stuccoed in preparation fer the realtor. RE goes over the new form 610, effective Jan. 1, 1998, and discusses the new RF power limits fer human exposure to RF fields. VDP's cat just brought a dead rat into the house. And Larry tells BWH that possums like cat food! RND tells OPs that the VHF bands hve been open fer the last week & a 1/2, and John reminds OPs that there is a sweepstake contest this weekend. ZH's phone number is a mystery....No one has it!! Wid no classes today, LDC makes both

Nets. On Sat., Nov. 8, Larry will be part of a VE team at EDS Company at 8:00 am. And LDC says the roof is on, doors are in, windows, etc., now to finish delectrical & plumbing chores and the QTH will be ready fer El Nino. VFC gets bk frm Arkansas, telling OPs he missed the snow, but not the 22 deg. temp. in Texas! And Denny said there was a 6m opening into OR, WA, SD, and Mont. today, and 10m openings into Japan & Kawajalein Is., etc. KFW lightened his purse in Laughlin, NV., fer 3 days, but bought a PL board at the auction fer the 2m rig that works just fine! HCN, wid the QTH in Panorama Heights works the Net FB wid an HT. Raplh is located on a hill abt 400 ft. up!

CLUB ELECTIONS The nominating committee has proposed the following for the coming year. President -Duties - Lead board and general meetings. Vice President - Larry Hoffman K6LDC Duties - Plan meeting programs. Act as President during his absence. Secretary - Jim Winn KE6UCH Duties - Handle all club correspondence. Treasurer - Phil Andersen - KK6QE Duties - Handle club's money and prepare monthly report and year end audit report. Activities Chairman - \_\_\_\_\_\_?

Duties - Organize prizes for raffle, and provide refreshments for meetings. Membership Chairman - John Dawson WA6RND Duties - Coordinate list of paid members with treasurer. Promote club membership. Prepare club roster. Mail out the monthly RF. Publicity Chairman - Ken Konechy W6HHC Duties - Provide publicity for the club. Work with membership chairman to increase membership. Technical Adviser - Larry Beilin K6VDP Duties - Support the club in all technical and interference problems.

Member at Large - Art Sheldon AD6B

Member at Large - Frank Smith - WA6VKZ

Duties - No specific duties, fills where needed.

Duties - No specific duties, fills where needed.

If you want to run or to nominate a worthy member to run for any of the above offices make it known at the November election meeting.

## **Orange County Amateur Radio Club**

Invites You & Yours to the Annual Christmas Dinner.

Date is December 13,1997

Place will be at the Country Harvest in the city of Orange.



All Dinners will be served Buffet Style.

Cost & Tickets will be sold at the meeting
on November 21st

Location - Five Hundred Feet North of Taft on the East side of Tustin Ave.

Taft is the continuation of Ball Road in Anaheim. Also North of Katella by three Signal Lights.

contact: Ken W6HHC - (714) 744-0217 Bob AF6C - (714) 639-5074

TEM	MFG	MODEL	DESCRIPTION	\$	PRICE	PRICE WHEN WITH	WHEN	HTIW
ω	Kenwood	TR-7730	2-MTR base transceiver	2020886	\$289	\$75	1981	Ves
4	Astron	RS-7A	7 amp Power Supply	008857	\$60	\$35	1981	₽,
ທ	lcom	IC-781	200W low-band Transciever w/ ant tuner	002265	\$4,831	\$3,500	Dec-90	yes
6	lcom	Sp-20	External base Speaker	003080	\$230	\$150	Dec-90	ves??
7	Yaesu	FT-1000 delux	200W low-band Transciever w/ ant tuner	01080037	\$3,525	\$2,500	Aug-90	yes w/ all factory upgrades
œ	Yaesu	SP-5	External base Speaker w/ audio amp	1	\$145	\$80	Aug-90	
9	Yaesu	FT-990	200W Transciever w/ antenna tuner	4D310190	\$1,900	\$1,200	C	227
6	Yaesu	1	Speaker 4-ohm		•	\$20		n :
⇉	Yaesu	YS200	WATT meter 1.8 - 60 MHz 2000W	0E0030269		\$80	1984	Ves
12	Daiwa	SW-210A	SWR bridge 1.8 - 145 MHz	10352	\$100	\$40		Ves
5	Amitron	AL-1200	2000W RF Linear Amplifier	00291	\$1,412	\$900	Dec-86	Ves
16	Henry Radio	3KA	2000W RF Linear Amplifier	03-528	\$1,478	\$800	Jun-77	Ves
17	Yaesu	FL-2100B	1.2KW RF Linear Amplifier	5J306201	\$400	\$275		yes w/ two spare tubes
19	Nye	RFM-005	5KW Power Monitor w/ external element	07632	\$220	\$100		
20	Nye	RFM-003	3KW Power Monitor w/ external element	80236	\$220	\$100		Ves
2	Nye	RFM-003	3KW Power Monitor w/ external element	80618	\$220	\$100		₽,
22	Bird	43-50	Thru-line Power meter			\$100		no
24	Bencher	YA-1	1.5KW low-pass filter 1.8 - 30 MHz		\$40	\$15		on
25	Bencher	YA-1	1.5KW low-pass filter 1.8 - 30 MHz		\$40	\$15		on
26	Bencher	YA-1	1.5KW low-pass filter 1.8 - 30 MHz		\$40	\$15		9
29	lcom	SM-8	Base mike		\$150	\$70		yes
30	Shure	444	Base mike		\$42	\$15		???
3	Shure	444	Base mike		\$42	\$15		???
33	Sony	ECM-220	600 ohm Hand mike			\$40		no???
34	Kenwood	MC-30s	Hand mike (low-imp dynamic)		\$30	\$10		no
35	Kenwood	MC-46	Hand mike w/ PAD		\$40	\$15		no
36	Kenwood	1	Hand mike (as is)		??	\$5		5
39	Yaesu	MH-1 b8	Hand mike		\$40	\$15		o
40	H. R. Center	天-5	Keyer			\$25		9
4	Tyme Meter	24H	24-hr Clock		\$27	\$10	1970	o
43	Larsen	LM-150	2-MTR 5/8 ant w/ Larsen magnetic mount			\$25		no
47	Kenwood	SM-220	Station Monitor	3040026	\$400	\$175		Ves
49	Daiwa	CS-201	2-position COAX switch		\$26	\$15		oo,
50	????	-	5-position COAX switch			\$15		no
ਹ	77??	1	5-position COAX switch			\$15		no
52	Heath	HM-31	Cantenna Dummy Load		\$15	\$5		По
င်	????	1	"cantenna-like" Dummy Load		\$10	\$4		no

## Club Nets

Band 15 Meters 2 Meters Mode SSB FM

<u>Day</u> Wednesday Wednesday 7:30 P.M. 8:30 P.M. Freq. Mhz. 21.375\* 146.550 Simplex Net Control AF6C WB6IXN

(Listen for W6ZE, Net Control)

\* Plus or Minus QRM

## **General Meeting**

NOV 21ST DEC 13TH JAN 16TH General meeting is the third Friday of each month, 7:30 P.M., at the AMERICAN RED CROSS facilities.

601 N. Golden Circle Dr. , Santa Ana, CA

Major cross streets: Fourth Street and Tustin Ave.

Talk-in frequency 146.550 MHZ. simplex.

## **Board Breakfast**

DEC 6TH JAN 3RD FEB 7TH Board Meeting is the first Saturday of each month at 8:00 A.M. The Wildflower Restaurant - members and visiters are welcome.

2525 N. Grand Ave., Santa Ana, CA

Exit the 5 freeway at 17th St., go east to Grand Ave. Go north on Grand; or exit the 22 Freeway at Glassell/Grand. Go south to

restaurant.



Orange County Amateur Radio Club, Inc

P.O. Box 3454

Tustin, CA 92861





American Hally 321

# **First Class Mail**

To:

Your Personal Copy

Time Dated Material PLEASE RUSH