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ORANGE COUNTY AMATEUR RADIO CLUB

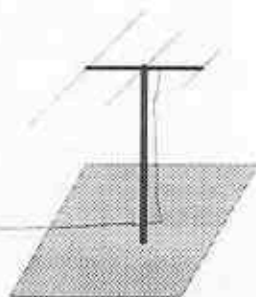
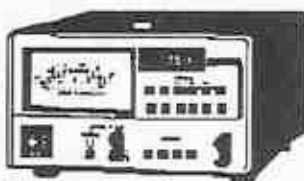
VOL. XXXII NO. 4

P.O. BOX 3454, TUSTIN, CA 92681

APRIL, 1991

Friday, April 19th
7:30 PM
is the next meeting!

Our Speaker:
**CORKY
CORCORAN,**
N6HQL... on A.R.E.S. and Emergency Service



Mondays 6:30pm 144.330 simplex
WB6NOA, Gordo - Code practice
and "News behind the News"

Mondays 8:00 pm 28.333
KC6KDL, Bob and WA6TWF,
Dave - Beginner's Net, Code Prac-
tice and Tech Talk. Also, an an-
tenna construction party is being
planned. Tune in for details.

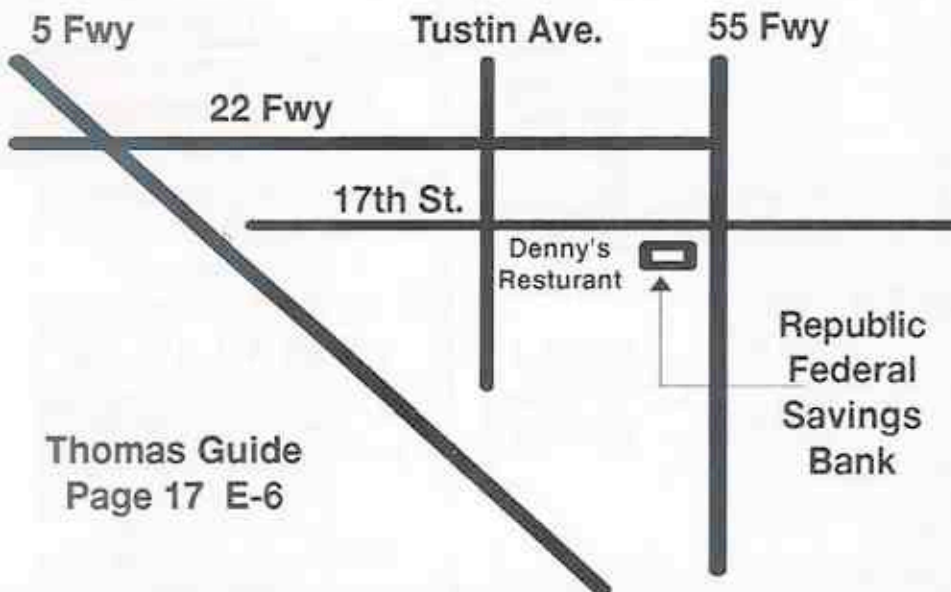
UHF-VHF Conference - May 3rd
thru 5th at Beachfront Holiday
Inn in Ventura.

FIELD DAY - June 22 - 23

Public Service Event - Volunteers
Needed - August 9, 10, 11 Heels
and Wheels Carriage Event, see
Bob Tegel, KD6XO, to sign up.

<i>In This Issue.....</i>	<i>Page</i>
PREZ SEZ	2
NET NOTES	3
APRIL BOARD MINUTES	4
MARCH MEETING MINUTES ..	4
HALF SQUARE BEAM	5
KC6DLA AUTOBIOGRAPHY	5
ROSTER WITH THIS ISSUE FOR MEMBERS...FULL ISSUE NEXT MO.	

NEW MEETING LOCATION!!!



Thomas Guide
Page 17 E-6

NEW MEETING LOCATION STARTING THIS MONTH!
FIELD DAY Planning has started... Time to get involved!

The Prez Sez..... by Ken Konechy, W6HHC

Well, the OCARC has a new meeting place!!!! We have moved our monthly meetings to the REPUBLIC FEDERAL S & L building on 17TH STREET and the NEWPORT FWY in Santa Ana. (See map and details on page 1) Make sure you go to the new location.

I was overwhelmed by the offers of support that I got to help the OCARC from members. In order to avoid a \$50 fee per meeting at the new meeting location, we needed to have club member accounts at the S & L totaling \$20,000. AND WE DID IT!!! On behalf of the OCARC, I want to thank the following members for their outstanding generosity in offering to move accounts in order to help the club:

* N6UC	Jack Hollander
* W6COJ	Dave Hollander
* WA6PFA	Tom Thomas

* AF6C	Bob Eckweiler
* W6NGO	Kei Yamachika
* W6RE	Alex Alexander

FIELD DAY is getting closer and closer. At the April Board of Directors meeting (and club breakfast) I could begin to feel the excitement of getting ready for FIELD DAY. Both Frank Smith / WA6VKZ and Dick Hammerschlag / WD6X have agreed to provide leadership for the overall planning for this event. There was a good start at filling in names for the various BAND CAPTAINS and we may have a volunteer to serve as FOOD CHAIRMAN. Dave / W6COJ, Kei / W6NGO, and Phil / KK6QE have done a lot of hard work to find sites for the contest. It looks like the location for the sites are narrowing down to either the U.S.M.C.A.S.(H) in Tustin or some Tustin City property. There will be sign-up sheets

at the next meeting to start to firm up the size of the operation. Make sure that you plan to spend some time at FIELD DAY this year (June 22 and June 23). We need plenty of help.

As I am writing this article, I am thinking about this being an exciting week for HAM RADIO. The Space Shuttle, STS-37, is still in orbit and who would have ever believed that all 5 astronauts would be HAMs!!!! I spent a lot of time this week listening to Houston Mission Control and the astronauts on 145.460 (via JPL Labs) and watching the AMSAT tracking program follow STS-37 on my computer (after I downloaded the "kleps" from a Packet Radio BBS). This is High-Tech Heaven. THIS IS AWESOME. HAM RADIO has come a long way since Mr. Marconi!! If anyone in the club actually had a QSO with the shuttle, let me know. I'd like to hear about your adventure!! See you at the new meeting location.....de KEN / W6HHC

1991 CLUB BOARD of DIRECTORS

President	Ken Konechy	W6HHC	541-6249
Vice President	Mike Abreu	K6KAA	832-8503
Secretary	Bruce Creager	KC6DLA	538-8259
Treasurer	Bill Freyfogle	N6VMS	964-9336
Activities	Tom Thomas	WA6PFA	771-2917
Membership	Bob Eckweiler	AF6C	639-5074
Public Relations	John Meacham	KJ6TK	842-4702
T.V.I. Chairman	Larry Beilin	K6VDP	557-7217
Member at Large	Frank Smith	WA6VKZ	454-2635
Member at Large	Chris Breller	KJ6ZH ..	(213) 866-2077

CLUB APPOINTMENTS

Club Historian	Bob Evans	WB6IXN	543-9111
W6ZE Trustee.....	Bob Eckweiler	AF6C	639-5074
RF Editor	Nancy Bucher	N6XQR	537-8728
RF Printer	Jerry Dahlin	AA6BU	
Refreshments	Cindy Hughes	KC6OPI	

DUES

Regular Member	\$12.00	Additional Family Members	6.00 each
Teenage Members (under 20) ..	6.00	Optional Club Badge	5.00

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.

**Need any antenna
ROTOR CABLE?
See Mike, K6KAA
He will share with hams
in need!**

RADIO SCHOOL U
"U" FOR UNDER-ONE-ROOF

- No-Code Technician Class
- General Code Class
+ Theory Review
- Advanced Theory Class

May 10, 11, 12

AIRPORTER INN, Orange County
also, June 14, 15, 16
DAYS INN, LAX, Los Angeles
Bring your friends
to no-code class!

Attend an upgrade class at the
SAME Hotel
on the SAME Weekend!
3 Classes in 3 Classrooms
Gordon West Radio School, Inc.
INFO LINE (714) 434-0666
REGISTER (714) 549-5000

On the Nets - March, 1991

by Bob Evans, WB6IXN

3/6 15m phone net - W6ZE/HHC checks in NGO & IXN. HHC's rotator decides not to work as Ken tells Kei & Bob abt the possible new Club meeting site. NGO does interior revamping of the QTH, repaints, tiles, & gets the XYL a new stove! Kei signs to go finish 3 letters, while IXN tries to avoid too much work in retirement! HHC packs for a wedding back East.

3/6 2m phone net - W6ZE/IXN checks in BPX, QE, ZH, RE, AF6C, HHC, VMS, & ESD. BPX gets 3/8" of rain Mon., surveys weeds that need cutting, & looks for a battery for the HT. QE gets his 'engaged couples' church meeting moved & joins us on the net. Phil employs the help of PFA, HHC, & AF6C wid the packet station. ZH & Jane get everything 'washed off' in the rain as Jane predicts a call near KC6SWF. RE watches the weeds grow in the backyard as the orange trees blossom overhead. AF6C suspects many absent OPs are watching the James Bond movie tonite. Bob doesn't drive in the rain..He parks the car, walks 3 miles in the rain, & ruins a pair of shoes! HHC, Diane & Sandi will fly back East tomorrow for a nephew wedding. VMS works Rick, ZL9DX, Auckland Is.; TY2LS, Benin, Afr.; A92FL, Mark, Bahrain; C31ND, Andora (bet. Spain & France); TJ1YL & DX, Camaroon. ESD logs a little more than 4" of rain at the QTH. And Bob works a YL, ZL9YL on Auckland Is. on Mar. 7, & he continues to play wid packet.

3/7 15m CW net - W6ZE/IXN checks in VMS, RND, & KC4UUF. All OPs are glad the War is over..Too bad we can't aid the rebels fighting the Iraqi government! VMS QSOs wid JA1NUT, a gud friend of WS. Bill also chats wid HL1IFF, Chon, frm Korea, & CWs wid 5W1JC frm West Samoa, & T31AF frm Central Kiribati. RND doesn't hear the big pileup on 21.030. As John 73s, KC4UUF checks in frm Pinson, Ala., near Birmingham. VMS tells George. UUF, about his friend, Gene, WB4EWR, a blind OP who lives near Birmingham. WE lose George in the QSB.

3/13 15m phone net - W6ZE/HHC checks in NGO, QE, WH6BJD, & AF6C. All OPs are busy helping Al, BJD, locate an old classmate. Al's QTH is Hawaii & he is a member of the Hilo ARC. IXN eavesdrops on the Net!

3/13 2m phone net - W6ZE/IXN checks in BPX, NG7D, PFA, RE, QE, RND, ZRB, QW, KAA, VDP, HHC, ESD, & ZH. BPX records a 1/4" of rain in Garden Grove, gets a battery for the HT, & he & Blanche will monitor the harmonic's surgery tomorrow. NG7D fixes a glitch in the logging program & does some tape dubbing. PFA & KAA supply QW wid possible sources for a 1 1/2" aluminum boom for the TA-33 Jr. Tribander ant. NG7D suggests that QE look at wireless microphones at Radio Shack, & HHC will check on a headphone/mike combination at work for Phil. All OPs receive their RFs & throw kudos on Bob's & Nancy's 'absent' ears! HHC reminds all of Friday Club meeting, tells OPs abt press breakdown during 'RF' printing, & QW offers emergency printing services if there is any future problem! KAA suggests that QW check out 'sprinkler' stock as a boom source for the ant. Mike is also 'in the blue' agn as he rents the property in Bakersfield! VDP experiences sore muscles as he wrestles wid an electric jack

hammer, tearing dwn a brick structure at his mother's QTH. IXN tax HHC for the beautiful word processor, & ESD plants grass seed & hires 2 guys to remove some palm tree stumps. ZH continues to work DX as Jane awaits her new call. Chris passes a freq. of 146.655 dwn 600, PL of 103.5 (or 1A), on to IXN.

3/14 15m CW net - IXN & RND make contact. IXN gets visitors in the shack who need help wid algebra. We say 73s 'til next week!

3/20 15m phone net - W6ZE/HHC checks in NGO, AF6C, IXN, & QE. NGO wishes rain wud hve occurred 1 wk later..Now, plowing & fumigating the field will wait another 2 wks! Rain invades HHC's QTH..Further repairs on the roof will be required! AF6C announces that HRO will be moving to Henry Radio's old location on Euclid Ave. (April Fool, Bob?) IXN will hve to repeat the caulking of the awnings to stop leaks. XYL & QE enjoy the rain.

3/20 2m phone net - W6ZE/IXN checks in BPX, RE, KAA, COU, QE, RND, VDP, XQR, HHC, BZF, SDU, & ZH. BPX reports 1 1/4" of rain on Mon. & 1 1/8" today! Wyatt won't be watering for a month! RE reports 10" of rain for the season as Alex surveys the puddles in his backyard & tells OPs abt meeting old friends at his former place of employment, on a Red Cross blood drive. KAA plans to 'vacation' next week, & quips that Santa Barbara shud hire 'Pecos Bill' to bed down these storms to fill their reservoirs! IXN watches the water leak under his newly caulked awnings, while HHC watches dew drops form in the QTH frm an elusive leak in the roof! RND raises the 2m ant. abt 6 ft. to clear the roof, & is awakened at 5:00am by a bolt frm his 'lightning' alarm clock! ESD calls VDP & alerts Larry abt a 'juicy' DX contact, VQ9CQ, on 14.226. And Larry hears ZL land on 6m this afternoon! XQR alerts OPs of the USGS warning of possible seismic activity in the Parkfield area within the next 3 days,& wid a leak in her roof, Nancy joins HHC & IXN on the 'OCARC Leak Committee'! ZH & Jane escape the 'Bellflower Tornado' by abt 2 miles as severe lightning & thunder fail to affect Chris' new photo-sensitive glasses! QE listens in 'dry comfort' as rain patters dwn on his roof, & HHC reminds all OPs of new OCARC meeting place next month: Republic Federal Savings, 17th St. & Newport Fwy.

3/27 15m phone net - W6ZE/HHC checks in AF6C, IXN, ZL1BMK, NGO, & NG7D. Richard, BMK, joins us to talk wid NG7D. IXN asks Richard abt seismic activity in ZL land. Kei gets 'buckets of rain' at the QTH this morning, & AF6C ends up wid a missing element on the beam, & vacation on April Fools' day?! HHC helps the harmonic wid computer files as he answers landlines during the net!

3/27 2m phone net - W6ZE/IXN checks in BPX, KAA, RE, JSV, RND, VDP, PFA, NG7D, HHC, & ESD. BPX totals 12 3/8" of rain since July of last year! KAA ducks the tornado winds coming in frm Huntington Beach as he listens to ZL 2s, 3s, & 4s coming in on 6m! Tues. nite's storm reminds RE of the previous major storm, when Alex joined the 'Leaning Tower of Pisa' club! Wid his taxes all done, Alex now surveys the 'Canadian lakes' on the lawns! JSV

Continued on Page 4

On the Nets - March, 1991 (Continued) by Bob Evans, WB6IXN

awaits medical test results as he helps NG7D with the 'Paperclip' program and watches his 'red apple' ground cover turn green with the rain! RND's relatives from Bishop miss the heavy snows as they vacation with John. Congrats on the Extra ticket, John!! VDP gets soaked, listens to the 'hail' on the roof, watches the yard turn into a lake, & works on his computer software. PFA garners 5" of rain from the last storms, watches the swimming pool spill over, sends the XYL off to Hong Kong, & buys a PK-88 Controller for a mobile emergency packet station. NG7D wrestles with the noise from the 60 KV power lines, watches the Butternut 'take a licking'..but its still tickin' in the high winds, & tells OPs of HRO's move to 933 Euclid Ave. in Anaheim. HHC & BMK will make packet contact between here & ZL land. They will try to beat the US Mail! ESD nurses his sinus infection as he collects 1 1/2" of rain from the last storm.

Minutes of OCARC General Meeting March 15, 1991

Meeting called to order by President Ken Konechy at 7:30 PM. Officers present were Ken-W6HHC, Mike-K6KAA, Bruce-KC6DLA, Tom-WA6PFA, Bob-AF6C, John-KJ6TK, Larry-K6VDP, Frank-WA6VKZ and KJ6ZH. There were 52 members and guests present.

Program - Bill Wetzel, N6RKY, has been operating a packet BBS in the city of Orange. He concluded operation of the BBS today as a result of FCC action of fining BBS operators for passing information considered commercial posted by other operators. Bill discussed operation of a packet bulletin board.

ARRL Membership Renewal - The club receives \$5 from the ARRL for renewals made through the club. Make your check out to the club and give to Bill, N6VMS. He will then send your renewal to ARRL.

Name and Address Verification - A membership roster is being compiled. Please verify that your name, call sign and address are correct on your RF mailing label. Notify Bob, AF6C, if corrections are required.

Raffle - 236 of the 450 tickets have been sold for the Yaesu FT470 dual band (2 M and 440 Mhz) hand held. A motion was made and a vote taken and passed to direct the treasurer to write a check to the activities chairman for the purchase of the FT470 radio.

Frequency Counter - The counter donated by Jerry Davis, KC6MTH from Audiotek, was auctioned to Bill, N6RKY, for \$25.

Meeting Room - A motion was made and a vote taken and passed to move the monthly general meeting location to Republic Savings on 17th street at the 55 freeway.

Field Day site - Site locations were discussed. It now appears that the Tustin site may still be available. A resident of Tustin is needed to complete the paper work if a field day site on the city property is to be used. Dave, W6COJ, also agreed to check the Tustin Lighter Than Air (LTA) station as a possible site. If you want to be a band captain, please see Dick, WD6X.

Minutes of OCARC Board Meeting, April 6, 1991

Meeting called to order by President Ken Konechy at 8:43 AM. Officers present were Ken-W6HHC, Mike-K6KAA, Bruce-KC6DLA, Bill-N6VMS, Bob-AF6C, John-KJ6TK, Larry-K6VDP, Frank-WA6VKZ and Chris-KJ6ZH. There were 27 members and guests present.

Meeting Room - The new monthly general meeting location will be the community room in the Republic Federal Savings building at 2400 East 17th Street, Santa Ana. This is next to the Denney's restaurant at 17th Street and the 55 freeway. The entrance is in the back of the building. Please do not use Denney's parking lot.

Field Day site - Site locations were discussed. Kei, W6NGO and Dave, W6COJ reported that they talked to the commanding officer of the Tustin Lighter Than Air (LTA) station and saw no problems with our use of that facility. Also Ken, W6HHC, reported that Phil, KK6QE, talked to the Tustin Parks and Recreation Department. They were very receptive to our use of either last year's site or any other park in the city. Frank, WA6VKZ, volunteered to be assistant to Field Day chairman, Dick-WD6X. George, KK6KN, offered the use of a 9X12 tent.

Raffle - Two hundred eighty four of the 450 tickets for the Yaesu FT470 dual band (2 M and 440 Mhz) hand held radio have been sold.

Meeting was adjourned 9:20 AM.

Respectfully submitted, KC6DLA, Bruce Creager - Secretary

Beam Antenna - Kei, W6NGO, has donated an antenna to the club. Many thanks to Kei.

CW Net Control - A net control is needed for our Thursday 15 meter CW net. See Ken-W6HHC, Bob-WB6IXN or Bob-AF6C if interested.

Donation - The club received a check for \$100 from the Heels and Wheels Driving Club as a token of their appreciation to our club for our work during their "California Classic" event.

ARRL Announcements from Alex, W6RE - 1) We will be required to vacate 220 to 222 MHz portion of the 220 band by late July. 2) 10 M FM is causing interference with AMSAT. Please don't use FM between 29.3 to 29.5 MHz. 3) Paul Friebertshausen, W6YMV, became a Silent Key yesterday. 4) US Congressman Jim Cooper (D-TN) has introduced the "Amateur Radio Spectrum Protection Act (HR73)".

Visitors Present - Charles A. Williams, J.R. Atchison, William Wetzel-N6RKY, H.B. Corcoran-N6HQI, Ron Boman-KA6RMK, Scott S. Byington-KC6MMF, Bob Radvanovsky-KC6ONL, Ed Gordon, Jon Pike-KA6MOK, and Al Toering-N6TEZ.

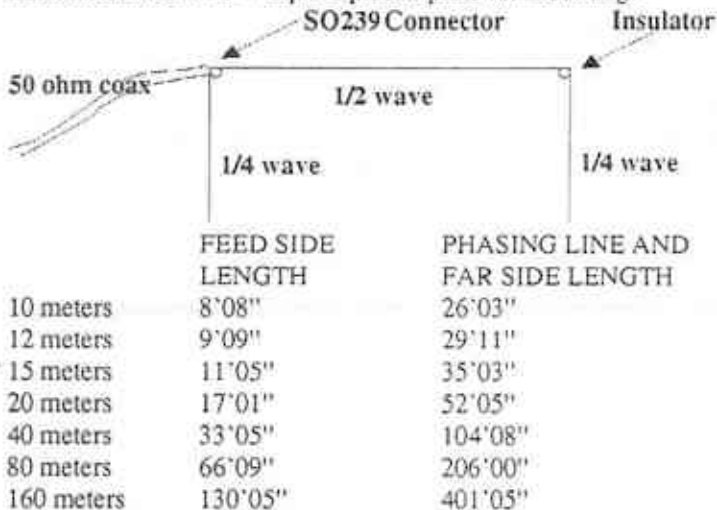
Meeting was adjourned 10:25 PM. Respectfully submitted, KC6DLA, Bruce Creager - Secretary

Half Square Beams for DX

by Jerry Davis, KK6YO (nee KC6MTH)

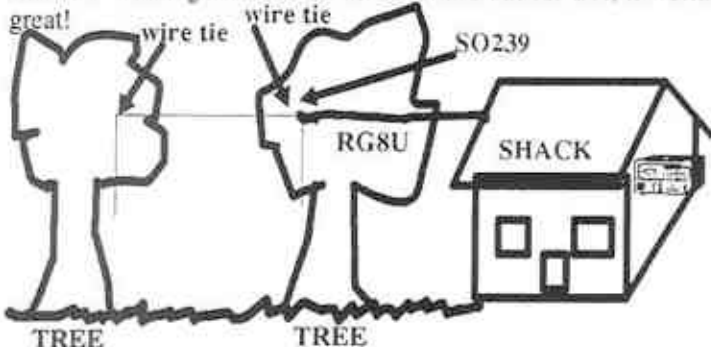
If you are like me or even if you're not an avid DXer, you might be interested in half square antennas. Not only are they economical to build, but very easy. This design has grown in popularity since 1970 when Ben Vester started experimenting with the full wave half square on 80 meters. Ben wanted to maintain dependable communications over a 4000 mile patch and had experimented with numerous antennas. The most consistent performer was a 260 foot long "bob tail" curtain draped over high tree branches. Unknown to him, a storm broke the antenna, leaving only two legs and the phasing line between them. When he discovered what had happened, he noted that the antenna had less gain but had a lower radiation angle. Even with less gain, the new half square was considerable less trouble to erect.

Jim Stevens, KK7L of Antenna West started manufacturing the half square antenna in 1979. Formulas are not necessary for the already formulated lengths listed. Anyway, use one SO239 connector mounted on a 4" square plastic plate for mounting.



#14 gauge wire is ideal, but you can use almost any wire that is available. To adjust SWR, just bend each side of the 1/4 w legs up until you reach a 1.1 SWR.

Feedpoint housing (SO239) to a screw in the top of a second story window frame or roof edge gutter near the ham shack, stretch it out at right angles to the desired beam heading, and throw a 10 or 20 pound fishing line over a convenient tree to hold up the far end. Personally, I just wire tied my half square between two trees in my back yard for 10 meters and had it tuned to 1.1 in less than 15 minutes. Not a good antenna for local use but for DX, it works great!



Antenna is not affected by plants or other non-metallic objects. Also the half wave does not have to be perfectly straight to work properly.

Indoor Installation: Results will be best if the antenna is suspended outdoors, but you may install the half square indoors. Usually the 10 and 15 meter bands are more practical for this application.

For more info, contact:

Antenna West
1500 North 150 West
Provo, UT 84604
(801) 373-8425

Antenna West makes the half square completely assembled and packaged for quick installation. Cheers & 73's and good DXing!
Jerry

OCARC Secretary Autobiography

by Bruce Creager, KC6DLA

Born and raised in Washington, Indiana (whose main fame was winning three state basketball championships - pretty important in Indiana)! Graduated from Purdue University (electrical engineering), drafted into the Army (planted grass in the desert) and came to California. Work for Rockwell International at the Anaheim plant testing guidance systems for ICBMs.

When I was about 11 years old, a friend and I connected a pair of wires between our houses and tried to communicate with buzzers using morse code. I soon learned that morse code was a terrible way to communicate (a view that I hold to this day). The buzzers quickly gave way to mics and earphones.

My first encounter with a real ham was while I was in the Army in El Paso, Texas. I became friends with Sid, W4QWM. Sid would talk to his father, W4EL, in Durham, NC almost every day on 10 meters. In the evenings we would back his car up to the barracks, throw an extension cord out the window and talk to hams around the world.

I have been interested in amateur radio for many years, but the code scared me off. A close friend here in California (Dell, KA6JPT) got his license a few years ago and has been after me to get my license. I worked at the code for over a year on and off (mostly off) and felt I was getting nowhere. About two years ago, I signed up for one of Loraine McCarthy's weekend novice classes. That got me over the code hurdle and a license.

I have a Yaesu FT101B HF rig and a Swan vertical antenna (that I blow the cobwebs out of it about once a month) and a relatively new packet station on 2 meters. It seems that I don't have enough time for radio (1 wife & 2 kids). I am a volunteer with the Red Cross and the City of Orange Amateur Radio (COAR). I am attempting to develop my skills in the area of emergency communications.

CLUB FUNCTIONS

MONTHLY MEETING: 3rd Friday of each month, 7:30PM at REPUBLIC FEDERAL SAVINGS BANK
Apr. 19th 2400 E. Seventeenth Street, Santa Ana, CA
May 17th First building west of the 55 Freeway on Seventeenth St.
Next to the Denny's Restaurant (see below) on the South side of the street.
June 21st NEW LOCATION STARTING WITH THE APRIL, 1991 MEETING

CLUB BREAKFAST: 1st Saturday of each month, 8:00AM at DENNY'S Resturant
May 4th 2314 E. Seventeenth Street Santa Ana, CA (714) 543-0872
June 1st (Second bldg. west of the 55 Freeway)

CLUB NETS

BAND	MODE	DAY	LOCAL TIME	FREQ MHz	SPLIT	PL	OPERATOR
2 Meters	FM	Wed	2030 hrs.	146.550	splx	na	WB6IXN
15 Meters	SSB	Wed	2000 hrs.	21.375*	splx	na	W6HHC
15 Meters	CW	Thu	2000 hrs.	21.175*	splx	na	??????

(Listen for W6ZE, net control) *Plus or minus QRM

ARES DISTRICT NETS

2 Meters	FM	Mon	1900 hrs.	145.220	-600	1A	N6HQI 1
2 Meters	FM	Mon	~1915 hrs.	145.340	-600	4Z	K6KAA 2
2 Meters	FM	Mon	1930 hrs.	noted	splx	na	noted 3

1 - ARES Info net.
2 - ARES District 3 net starts after info net is completed (Usually about 1915 hrs).
3 - City Nets: Orange - 146.535 WB6FCP; Tustin - 146.505 KK6QE; Santa Ana - 147.585 W6HHC

ORANGE COUNTY AMATEUR RADIO CLUB, INC.
P.O. Box 3454
TUSTIN, CA 92681

First Class Mail

Time-Dated Material.
Please Rush!!