HAPPY HOLIDAYS!
Next Meeting: Jan. 18th, 1991

KC6GSD will be Rose Parade Mobile!

This year Bill Fedde KC6GSD will be working Rose Parade Mobile again. But this time from a parade float. Bill has arranged to hitch a ride on the Rand McNally float and will be able to make contact throughout the journey down the Rose Parade route. Alinco Corp has donated a DR590T Dual Band mobile Transceiver with remote tuning head for this special station. This type of radio was needed because of the limited mounting facilities on board the float.

Alinco has just moved into their new expanded U.S. headquarters in Torrance, California. Masuo "Mark" Morisato, executive vice president of Alinco, said he wanted Bill Fedde to be using the most value packed transceiver on the market today.

Bill wants to have complete access to the tuning controls of the radio so he can switch from 2 meters simplex (144.330) for working local spectators with their hand held radios or to 440 MHz to access a K6QE systems remote station to come out on 28.333 Mhz.

Gordon West WB6NOA is helping Bill with a special headset for the parade. A dual band antenna will be camouflaged in the flowers of the float.

A commemorative QSL will be available to anyone who hears or works Bill. For your QSL send a self-addressed stamped envelope to: 102 Tournament of Roses (KC6GSD) 391 South Orange Grove Blvd. Pasadena, CA. 91184. So on January 1, 1991, New Year's morning, turn your radio to 28.333 and give KC6GSD a call. Bill will be detailing his progress down Colorado Blvd. Turn on your TV also, because he will point out when he is in front of the TV Cameras. (See page 5 for more.)

The Prez Sez.....
by Chris Breller, KJ6ZH

December is here and with it comes the close of another year. And what a year it has been! We have seen our club double in size; field day was a super affair; we have had some excellent guest speakers at our meetings and the "RF" has gotten a nice face lift. My thanks to the outgoing board members who have done an outstanding job this past year. At the Christmas Banquet, a good time was had by all. My thanks to Jane for putting it together this year. The annual Good of the Club Award was awarded to Phil Anderson KK6QE for his many contributions to the club this year, most notably, the proclamation of Amateur Radio Week by the city of Tustin.

With that, I hope you all get what you want for Xmas and I'll see you next year!

73 de Chris - KJ6ZH

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JANUARY MEETING: GUS BOGHARD, WM6J, ARRL OFFICIAL OBSERVER
WILL TALK ABOUT HOW TO DEAL WITH....
"MALICIOUS INTERFERENCE ON HAM BANDS"

December, 1990 - RF / 1
Bob Dahlin, K16UL, became a Silent Key on November 20th of this year. He was the speaker at the July meeting, the first meeting of the OCARC that I attended with Bill, N6VMS. We were very impressed with his talk on Radar. His talk and the friendly reception we received convinced us to join the Club and invite many of our friends to do so as well. I got to know Bob a little better after that because he generously printed each month’s copies of the RF at no cost to the Club. I’m very sad that I only got to know him a little, but grateful that I got to know him at all. He was a warm person and a real gentleman.

His wife, Ruth, is a very special lady. She has very generously offered the use of the Xerox copier for continued printing of the RF. Bob’s son, Jerry holds an Extra class license, AA6BU, and created the antenna for me that appears on page 1 of each issue. He will be attending future meetings of OCARC, and I know we will all welcome him.

Please remember Bob in your thoughts. He was very special and will be missed by his wife, his son, his daughter and those of us that he touched with his presence. Do something nice for someone, and think of Bob when you do it.

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**1990 CLUB BOARD OF DIRECTORS**

- President: Chris Breller, KJ6ZH, (213) 866-2077
- Vice President: Ken Komechy, W6HHC, 541-6249
- Secretary: Bob Tegel, KD6XO, 531-0926
- Treasurer: Bob Eckweiler, AF6C, 639-5074
- Activities: John Meacham, KJ6TK, 842-4702
- Membership: Tom Thomas, WA6PFA, 771-2917
- Public Relations: Mark Stanford, KJ6JC, 991-7398
- T.V.I. Chairman: Bud Barkhurst, WA6VPP, 774-6361
- Member at Large: Frank Smith, WA6VKZ
- Member at Large: John Roberts, WA6LAB, 540-7368

**CLUB APPOINTMENTS**

- Club Historian: Bob Evans, WB6IHN, 543-9111
- W6ZE Trustee: Bob Eckweiler, AF6C, 639-5074
- RF Editor: Nancy Bucher, N6XQR, 537-8728
- Refreshments: T. Breller, none, (213) 866-2077

**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.

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**November Club Meeting Minutes**

The meeting was called to order at 7:34 pm by President Chris, KJ6ZH. KJ6JC and WA6VPP were absent; 50 members and guests were present. Ken introduced the speaker, Gene Davies, AA6NP, Regional Coordinator for AMSAT. Minutes were accepted.

**Treasurers Report** - $1085.27 in savings, $77.47 in checking.

**TVI** - None.

**Membership** - Ten new members.

**PR** - None.

**Good of the Club** - Bob Dahlin had a bad heart attack and was in the hospital. Isn’t it now at home and flowers have been sent.

**Elections** - President - Ken, W6HHC; Vice President - Mike, KA6KA; Treasurer - Bill, N6VMS; Secretary - Bruce, KC6DLA; Activities - Tom, WA6PFA; Membership - Bob, AF6C; Public Relations - John, KJ6TK; TVI - Larry, KA6VPP; Member-at-Large - Frank, WA6VKZ; Member-at-Large - Chris, KJ7ZHC. All were elected by acclamation. Motion was made to appoint audit committee. Jane, none; Richard, WD6X; Bob, AF6C; Bill, N6VMS and Diana, N6YDQ volunteered for the committee.


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**Xtra Quiet Radio**

by Nancy Bucher, N6XQR

I would like to thank all those contributors to the RF this month, and also those who submitted articles for future months. When you tell people where our meeting place is, be aware that the name was changed on Dec. 7th from Mercury Savings & Loan to Security Bank. Hope you all have a safe holiday season and I look forward to seeing you all next year. Don’t forget to tune in on the Rose Parade mobile, and encourage your "Would be a Ham except for the code" friends to sign up for Gordon’s No-Code Class in February (pre-study necessary).
On the Nets - November, 1990
by Bob Evans, WB6IXN

11/11 15m CW net - W6ZE/IXN checks in RND, VMS & ESD. RND experiments wid RTTY & AMTOR, & will get a flu shot tomorrow (gud luck, John!) VMS chases a DX call:C9QI, but misses it! VMS rousts ESD frm the packet cluster & Bob appears on freq. Bob has been working phone mostly as he garners TYIDX (leaving VMS drooling!) We need a 15m CW net control...Any takers?! IXN is only acting net control!

11/7 15m phone net - IXN gets a landline frm AF6C's QTH. Ken & Bob are working on 'RF'! W6ZE/IXN checks in ESD & N6FC, Lcn, in SA. ESD 'breces' thru the ballot on Election day & works T3KT on 10m CW, & T33R on 10m phone. Bob & Len discuss the Kiriti & Banaba Is. contacts as IXN listens on the side.

11/7 2m phone net - W6ZE/IXN checks in BPX, KAA, VDP, RE, NG7D, XQR, PFA, ESD, VMS, AF6C, HHIC, & ZH. BPX solders wires to the Butternut ant, but quits when the aching leg requires rubbing alcohol! KAA/M, stopped at a red-lit, talks abt the new j-pole ant, & the velocity factor of his coax. VDP works no DX this week, but has a QSL card for ESD! RE covers GDR/FRG transitions from DX countries after German reunification, frm ARRLL bull. #44; AM rulings on FCC frm bull. #42; renewed operation of OSCAR 10; Alex works Farmers' Ins. blood donor program; & announces 'Scouting for Food' drive Nov. 17, & airs Newsline! NG7D announces Ivan Browning earthquake prediction for New Madrid fault on Dec. 3, & gets OH2BN QSL route frm VMS, for AH3C/KHSJ (Jarvis Is.) XQR downloads 'Net News' frm AF6C/ HHIC, & wishes to get materials for 'RF' earlier! PFA's tree becomes 2 limbs lighter in the howling SA winds! Tom & XYL visit Tom's sister in beautiful Cook, WA, & now appreciate the price of gasoline in CA! The SA winds huffed & they puffed, but they didn't blow ESD's 'low profile' ant down! & Bob txn VMS fer DX info. HHC heads fer the home QTH as AF6C tells OPs abt drinking beer & eating seafood during a weekend & a 1/2 trip to Plempton, Mass., near Boston,...interesting AF6C comment, "During elections in Mass., they question...In CA., we propostion?! VMS' ants. ride out the SA winds as Bill votes absentee ballot, gets Marpole Is., 15m SSB, & Banaba Is., too. Bill tells OPs the bands are open worldwide on 15, 20 & 40m. ZH & nOne report vc calm SA winds in Bellflower, as Chris informs OPs that he, HHC, & VKZ put together a fine slate of candidates for Club offices next year! Congrats to all candidates!

11/8 15m CW net - W6ZE/IXN checks in VMS & WS. WS checks in, QRUs, no traffic, pulls the switch. VMS tells IXN abt pistol shooting (one hand!) Ever tried that, XQR?! Bill as been shooting fer 23 yrs, inc. NARA matches. IXN follows VMS dwn to 21.007, where Bill works FR5DD, Jean, Reunion Is. IXN barely hears FR5DD in the QRN on the inverted V!

11/14 15m phone net - W6ZE/HHIC checks in IXN & WZ0. IXN gets home frm Hosp. 1/2 hr. before net...diverticulitis! UL had a heart attack after Club auction. HHC asks IXN to provide a list of past Club pres. for XQR. WZO tells OPs that, yrs ago, this net provided the impetus for Fred to upgrade!
January is the month for your annual membership renewal. Please pay your dues promptly and get our new Treasurer, Bill, N6VMS off to a good start. STILL ONLY $12 FOR A WHOLE YEAR!
The 101st Tournament of Roses Parade provided an unique opportunity for amateur radio to contribute to the 1989-1990 parade theme “A World of Harmony.”

The hundreds of hams who provided communications support to the parade each year were joined this time by Bill Fedde, KC6GSD, who contacted hundreds of hams by operating a mobile station while riding in a vintage car in the parade. (KC6GSD will again operate Rose Parade Mobile. See accompanying article page 1.) Bill, son of Don Fedde, the 1989-1990 Tournament of Roses president, was seen by the four million television viewers and one million spectators who lined Colorado Blvd. in Pasadena, California on New Year’s Day.

Bill operated using a concealed handheld radio broadcasting to an ultra sophisticated remotely controlled transceiver coming out on 28.333 USB 10 meter frequency. These remotely controlled transceivers are connected to a repeater through a computer device known as a low band interface controller. Most stations contacted said that Bill’s signal was S9+ through the remote station. Many stations were contacted in Europe which had excellent signals.

The plan originated when Bill, a recent graduate of Gordon West’s Radio School, mentioned to Gordon, WB6NOA, that he would be participating in the Rose Parade with his father. Gordon had recently joined the TWF Super System, a remote base system which has the capability of going on 440 MHz and coming out on any band from 80 meters to 440 mHz on side band or FM. The use of this technology and equipment was made available to Bill and the serious planning started.

The TWF system has three of these remote systems in operation in the Los Angeles Basin. Each station operates with the most up-to-date equipment, giant antenna systems, and kilowatt amplifiers. The station that Bill used for the parade is on a one thousand foot hill overlooking the parade route and uses Kenwood TS 940, 711, 811, and a four element KLM tribander on 10, 15, and 20.

A new ham, Bill had never participated in operating a DX or special event station before. Gordon tutored Bill and conducted mock contesting drills. Even though hundreds of stations called Bill, everyone was courteous and the check-ins went in a well organized manner. Three net control stations helped hold the frequency before the event started and kept a log of all stations heard. Reel to reel tape recorders were used to log the whole event so no one was left out.

Bill and Gordon sent press releases to more than 40 news gathering organizations. The ninety television cameras along the parade route offered on the air close up pictures of the President’s car. Bill could be seen next to the driver with his headset on contacting hams throughout the world.

To counteract the problem of running out of power for the handheld radio, a 4 amp hour gel cell battery was installed. An external power cord was used to power the dual band hand held. A mag mount antenna was camouflaged with flowers by a volunteer group from Holland who each year decorate the officials’ cars in the Rose Parade.

The brain of the TWF system is a low band interface controller designed and built by K6QE Systems. This controller allows any mobile operator to control the band, mode, exact frequency, and rotate the antenna to the desired setting from a handheld radio or mobile using touch tone commands. Other features include automatic antenna switching and frequency scanning.

The audio is so good that most amateurs contacted through the system don’t realize they are talking to someone using a remote transceiver. K6QE Systems has adapted the controller in the past for the Collins KWM-380, Yaesu FT980, FT767 and now the Kenwood 940. Jim Gilliam, designer of the K6QE Systems low band interface, says he is going to standardize on the Kenwood radios for future units.

One of the main difficulties with any computer controlling a world-wide transceiver is keeping the computer generated noise out of the receiver. A special set of shielded boxes had to be custom manufactured to enclose the commercial micro-mint computer board. Repeaters that are connected to a low band interface system have allowed many hams living in the Los Angeles basin that are encumbered by antenna restrictions, to have the availability of a superb world-wide station at their fingertips for making rare DX contacts as well as general rag chewing.

If you have any interest about this technology please call or write David Corsiglia, WA6TWF, 858 Lenz Dr. Anaheim CA 92805. Telephone 714-535-5528.

For inquiries on Bill Fedde operation in the upcoming Rose Parade please call or write Bill Fedde, 394 Jones St. Ventura CA. 93003. Telephone 805-643-1817.

FOR SALE!

#1 Tower:
New anodized aluminum tube crank up 30 foot with stainless steel guide rollers on each section, and side cover up 5 feet on lower section. Never used. $750 Delivery may be possible.

#2 Tower:
Fixed aluminum tower up 3 feet above water surface. This multi-use tower incorporates rigging for various antennas, sails, topping lift, mast and anchor light, and wind vane. Presently has vertical dipole 2M antenna and 5/8 wave vertical for marine band. Also included with tower is a 1975 Belleville cruising sloop with singlehanded mast raising system and live-aboard conveniences. This fractional rigged sailing sloop, trailer, tower, race rigged sabot sailing dingy is a great package all for a low $6,950. Delivery also possible. Please contact Gerry Bailey, KC6COU, (714) 894-0604 - weekdays or Bob Gregg KC6KDL (714) 892-3728
FCC Creates Codeless Class of Amateur License
December 13, 1990, ARRL Bulletin #54

FCC announced on December 13 that new Technician Class license applicants will not have to demonstrate Morse code proficiency in order to have all privileges above 30 MHz. Implementation is expected by February, 1991. Technicians must obtain their licenses prior to that date will be grandfathered, meaning they will continue to have their present HF privileges.

The codeless Technician written exam will have 55 questions. New Technicians wanting HF privileges will be required to hold a CSCE for element 1A, that is 5 WPM, which must be administered by three accredited VE's. There will be no call sign designator to indicate whether or not a Technician has passed a code test, but FCC will have records of who has passed. More details will be forthcoming in February QST.

From Gordon West, WB6NOA
FELLOW RADIO AMATEUR OPERATOR: The FCC has just announced a no-code Technician class operator license. This license will allow full Technician class privileges on 6 meters, 2 meters, 220 MHz, 440 MHz, 900 MHz, and the 1200 MHz band and up. The no-code Technician class license would be passed in front of 3 accredited VE's when the applicant successfully completes Novice written Element 2 and Technician class written Element 3A. Absolutely no knowledge of Morse code would be required.

Here at Radio School, we share with all radio amateurs the concern of overcrowding on 2 meters, plus our mutual concern of very green, brand new hams jumping onto some very sophisticated repeater systems without the proper introduction of correct operating procedures. Our phones have been ringing off the hook from would-be hams wanting a quick way to get onto the airwaves.

Yes, Radio School will begin offering a weekend amateur radio no-code Technician class course. But our course will involve a lot more than just one weekend of study!
...All Radio School weekend class students will be required to complete pre-study assignments mailed to them before class.
...No-code applicants will take an entrance examination on Friday night to insure pre-study.
...Class emphasis will concentrate on good operating procedures, and a gradual assess to our airwaves on after-class Radio School training nets.
...Live equipment demonstrations in class featuring capabilities of long-range 6 meter SSB, the 222 MHz Condor system, the 440 MHz WA6TWF system, and the 1270 MHz California microwave relay system. We will only encourage 2 meter operation on 144.330 MHz simplex until they get their procedures fine-tuned for local 2-meter repeaters.

Simple Morse Code phrases will be taught in class (15 wpm character rate, 5 wpm word rate) to encourage applicants to obtain code Element 1A for Novice privileges on 10 meters, 15 meters, 40 meters and 80 meters. A weekend all-code class will be encouraged, and offered.

Here at Radio School, we do not believe this new no-code Technician class will help solve our overall slow-growth problem throughout the country. I still contend that we have not developed the proper marketing procedures for selling the amateur radio license, including the Novice license with a code test. Here in Southern California, Radio School has been quite successful in teaching both code and theory to new students. We will continue with Novice classes also. But we hope soon to establish a corps of amateur radio instructors throughout the country with common teaching materials, regional quotas, regional referrals, regional support from major manufacturers and clubs, and the development of a national instructor force as powerful as our present VE system of volunteer and well-organized radio operators.

Thank you for your student referrals, and be assured that all Radio School no-code Technician weekend classes will concentrate on getting our students up on the air properly, on bands above and below 2 meters as well, and with guest ham radio operators wishing to show our students there's a lot more than just passing the test and hopping on the local -- and sometimes crowded -- repeater system. A prosperous 1991 to you all.

Ed note: We wish to thank Gordon West for giving OCARC access to his students and encourage anyone who wishes more info on classes and examinations for the new license to contact Gordon, WB6NOA, at (714) 549-5000. Class line is (714) 434-0666.

Year-End Report for Program Chairman - by Ken Konechy, W6HHC

The following is a list of programs and speakers that were held at OCARC meetings during 1990.

JAN "Earthquake Predictions and Measurements" by WB6OWB - TIM GOEPINGER

FEB "Repeaters & Advanced Remote Bases" by WA6TWF - DAVE CORSIGLIA

MAR "Comparison Between AX.25 & TCP/IP Packet" by KJ6TK - JOHN MEACHAM

APR "Fighter Pilots During the European Theater in WW2" by K1YZG - LU HURLBUT

MAY "A Review of Yaesu Ham Radio Products" by WD6DIH - KEVIN KAR-AMANOS

JUN "1989 Field Day Slides" by W6HHC - KEN KONECHY

JUL "An Introduction to Radar" by K16UL - BOB DAHLIN

AUG "Review of Digital Signal Processing" by AA6PP - WILL ANDERSON

SEP "VCR on Electromagnetic Radiation Hazards" Produced by WA6PMX - DAVE GUTIERREZ

OCT "OCARC Annual Radio Auction"

NOV "Introduction to AMSAT & Satellite Communications" by AA6NP - GENE DAVIES

DEC "OCARC Annual Christmas Dinner" by N0NE - JANE BRELLE
Terminal Node Controllers, C-64 Computers (and other incomprehensible mumbo jumbo)

by Bob Gregg, KC6KDL

It all started a few weeks ago, when Will, WB6GDZ, came by to take me to the annual QCARC auction. It seemed safe enough; I didn't need to buy anything, besides, the new FT-470 had seriously depleted my piggy bank. Still, it would be good to show up and see all your smiling faces. So off we went, Will, Leo, KC6NUP, and myself. There were a lot of smiling faces, but the action was fast and furious as the buyers competed for the winning bid. There was a lot of great equipment crossing the block, but I didn't see anything that I couldn't do without.

Then from across the room, I spied a large box marked Commodore 64. Now, I had been "advised" by a few "computer nuts" that I should have one of these high powered machines, but when I asked them "what for," the answers were generally incomprehensible. Will it move the lawn? I'd ask, "no." Will it take out the trash, "no," will it wash the car?, "no." Well, what could I do with one, "you can do all kinds of things," they'd say, and spout more incomprehensible mumbo jumbo about things I knew nothing about.

But I did know that it was possible to connect one to a radio, and use it to communicate. Now this, to me, is something useful. So it wasn't completely without interest that I sauntered casually across the room, stepping on a few toes, and knocking over one chair, to have a better look. There were several items in the large box, lets see, the long slim box must be the disk drive, there's the keyboard, what's all this other stuff, I wondered. There were several large volumes, good, it has instructions.

The monitor was the first item to cross the block. Again, I pretended not to be interested, and even let Dick, WD6X, and another fellow make the first few bids. Thirty seven fifty, I said commandingly. I glanced at Dick, our eyes locked, his, cold and steely, jaw set with determination, thirty eight dollars!, was his reply. The battle was on! When it was over I had bought the monitor for $48.00 even.

There wasn't much interest in the large box containing the computer, disk drive, and other mysterious equipment. So for about $140.00 I had bought the whole system. That night the computer and I stayed up until two AM. The next night we stayed up until one. I was hooked! A little searching netted a PK-64 TNC. And the three of us stayed up until nearly three.

Packet radio is great! There's a whole new world out there and packet is the key. There are BBS's, with a wealth of amateur information just waiting to be accessed. There are nodes to connect you with distant stations. You can leave it on when you go to work, and read messages that other hams left for you while you were gone and much more. I guess you can use a computer for other things too, like writing articles. This one was sent to our editor via packet radio. So I have learned that a computer can be really useful...if you attach it to a TNC and transceiver.

That's all for now, as I have to mow the lawn and wash the car. More on getting started in packet radio next month. Until then, 73.

---

Protect Your Antenna

by Larry Beilin, K6VDP

The atmosphere in Southern California is not very friendly toward amateur antennas. Aluminum tubing and copper wire don't rust, but they sure corrode and oxidize if left unprotected.

My first multi-band antenna was a Hi Gain 14AVQ vertical which was made of aluminum tubing. I put it up one day and went back on the roof a few days later to make some adjustments. Already, I could see signs of corrosion. I took the antenna apart and found quite a bit of moisture inside the tubing. I dried all the pieces, removed the corrosion with fine sandpaper, and reassembled the antenna. Weatherproofing was obviously necessary.

I covered all of the joints, screws, and clamps with RTV.* After the RTV cured, I painted the entire antenna with several coats of grey epoxy enamel. The antenna failed 14 years later due to corrosion inside the traps.

I now have 3 Ringo antennas for VHF and a 33 foot aluminum mast for my delta loop. All are fully protected and free of corrosion after several years of operation. I coated the connectors on the Ringo antennas with a dab of silicon grease to keep out moisture and prevent the aluminum threads from corroding. These simple precautions will protect an antenna for years.

*RTV stands for "room temperature vulcanizing rubber."

CAUTION: Do not use and RTV which contains acid (vinegar) as it is corrosive. Also avoid paints which contain metallic particles or carbon black. Light grey or blue is good. Do not use clear coatings as you cannot see if you missed a spot.

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Letter (Continued)

Continued from Page 4

Just then, the wind started blowing harder than ever. I heard something on the roof and thought to myself that the darn dipole had finally come down. So I went outside to view the damage when, to my surprise, I found a huge tower in my back yard! The damn thing must have been 200 feet high.... and on top, fresh soldered connections glistening in the moonlight outlined a 30 element tri-band quad. As I stepped closer, I found an envelope tied to the tower. It read, "In deep appreciation of services rendered... VE8SC/am." Inside was a WAC and DXCC certificate made out to me and a stock full of QSL cards from places I never even heard of!

Suddenly, a crazy looking airplane took off from the other side of the roof. A funny looking guy in a red flight suit waved as he flew off and yelled, "A merry Christmas to all... and to all a good night.

Signed "Scratchie" - WN6AAA

P.S. Best wishes for a merry Christmas and a Happy New Year.

Bob - AF6C

Ken - W6HHC

Note: the preceding letter originally appeared in "RF" in December of 1969!

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WANTED: 2 Meter Mobile Rig

Les McCauley, KC6JJC (714) 839-6183

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December, 1990 - RF / 7
CLUB FUNCTIONS

MONTHLY MEETING: 3rd Friday of each month, 7:30PM at SECURITY NATIONAL BANK
Jan. 18th 1095 Irvine Blvd. (4th St. becomes Irvine)
Feb. 15th Tustin, CA. Talk-in on 146.55 MHz
Mar. 15th (Take the 4th St. exit of the 55 Freeway
and head east. Continue past Newport Blvd.
about two blocks. It's on the left.)

CLUB BREAKFAST:
Jan. 5th 1st Saturday of each month, 8:00AM at DENNY’S Resturant
Feb. 2nd 2314 E. Seventeenth Street Santa Ana, CA. (714) 543-0872
(Second bldg, west of the 55 Freeway)

CLUB NETS

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<th>MODE</th>
<th>DAY</th>
<th>LOCAL TIME</th>
<th>FREQ MHz</th>
<th>SPLIT</th>
<th>PL</th>
<th>OPERATOR</th>
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<td>Wed</td>
<td>2030 hrs.</td>
<td>146.550</td>
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<td>na</td>
<td>WB6IXN</td>
</tr>
<tr>
<td>15 Meters</td>
<td>SSB</td>
<td>Wed</td>
<td>2000 hrs.</td>
<td>21.375*</td>
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<td>na</td>
<td>W6HHC</td>
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<td>CW</td>
<td>Thu</td>
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<td>21.175*</td>
<td>smplx</td>
<td>na</td>
<td>??????</td>
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(Listen for W6ZE, net control) *Plus or minus QRN

ARES DISTRICT NETS

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<th>SPLIT</th>
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<td>145.340</td>
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<td>4Z</td>
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<td>1930 hrs.</td>
<td>noted</td>
<td>smplx</td>
<td>na</td>
<td>noted 3</td>
</tr>
</tbody>
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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 WA6VKZ; 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!!