



# R F



ORANGE COUNTY AMATEUR RADIO CLUB

P.O. BOX 95, ORANGE, CALIF. 92668

VOL. XX, NO. 10

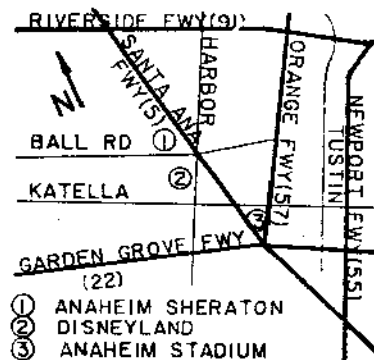
OCTOBER 1979

**NOTICE:** There will be an October OCARC meeting.  
It will be on Friday, October 19th.  
Usual place, usual time.  
So if you are not going to be at the Southwest Division  
1979 Convention on Friday night then join us.

## SOUTHWESTERN DIVISION 1979 CONVENTION OCTOBER 19, 20, 21, 1979

**SHERATON ANAHEIM HOTEL**  
1015 WEST BALL ROAD, ANAHEIM, CA. 92802

- EXHIBITS
- BANQUET
- T-HUNT
- AWARDS
- CW CONTESTS
- BREAKFASTS



**TALK IN**  
WR6ACB 146.19/79 MHz  
and 7260 KHz



WOUFF HONG      LADIES PROGRAM      TECH SESSIONS

**SUNDAY AFTERNOON FAMILY FUN AT DISNEYLAND**

THIS IS AN EXTRA EVENT PRESENTED BY THE DISNEYLAND EMPLOYEES RADIO CLUB

**PLEASE NOTE:** Seating for Banquet and Ladies Luncheon is Limited  
So Pre-register Early To Be Sure To Get A Seat



\*\*\*\*\*

## ACTIVITIES

Well gang, here it is, newsletter time again, and I thought I'd better get something on paper so you would know that I'm still working.

As most of you know, there are certain times of the year that mean different things to different people. For example there is Hunting season, Fishing season, Christmas season and so on. Well to the amateur radio operator, October brings in Contest Season. From October through March we have some of the biggest and best contests around. There's something for everyone whether your a DX person, VHF person, 10 or 160 meter person there's something for you. The California QSO party is even on during October. Here is a great chance to get that old rusty key out, blow the cob webs out of the tuning sections of the rig, and knock the bird nests off the roofs.

The October issue of QST has the rules for the ARRL sweepstakes. This is a great operating function for those people trying to work WAS or just looking to have fun. The exchange is rather long but when you examine it more closely you'll see the ARRL message format complete with word count, message number, text, and message number.

The other amateur radio clubs in Orange County have been challenged to ARRL sweepstakes competition. Only one other club has responded and that one club is going to give us a good run for our money. We are going to need each and every one of you, whether you only make one, ten, one hundred or one thousand QSO's your score will help. Pick up your October QST and turn to page 96 for the official rules. Set the weekends of November 3 through 5 and November 17 through 19 aside and lets do some operating.

The 1979 CQ World-Wide DX Contest is also coming up during the weekend of October 27 through 28 and November 24 through 25. You don't have to be a dyed in the wool DXer to hunt and peck your way through this one. The exchange is very short, just a report and your zone, which for us is Zone 3, and all bands may be used. For those operating with QRP there is a special category. Complete rules can be found in September CQ on page 46.

Also coming up are; December 1 through 2, ARRL 160 meter contest; December 8 through 9, ARRL 10 meter contest; January 12 through 13, ARRL VHF sweepstakes; February 16 through 17, ARRL DX Competition CW; March 1 through 2, ARRL DX Competition phone. As you can see the operator season is upon us, so lets operate.

Don't like contests eh? Don't like the QRM, the wall to wall signals, the constant din, the long hours, cold coffee, red eyes and shattered nerves? Well bucko, nothing says you have to put in a full time period. Get started on a slow basis. Try some contests on a small scale. A good way to get going is to try some of the State QSO parties. They are small, low key, easy to get involved in and rules can be found in almost any issue of QST and CQ.

\*\*\*\*\*

ACTIVITIES (cont'd)

One final note. The October issue of QST has the results of Field Day 1979. Gang, what I have to say now may not be to your liking but its got to be said. I'm afraid that the days of winning by having more operators than the other guy is over, those good old days of having the Orange County Plaque in the "bag" have faded into stark reality. Look at the score and do some good hard analyzing of how it happened. There is a solution and that is to praactice, practice, practice. Use any kind of practice that you can. Contests and QSO parties are great to get into and become mentally prepared to operate during Field Day 1980. The days of wine and roses are over and its going to take some good, hard, down to earth operating to capture that award again and most important of all, develop a winning posture and attitude.

This year it was a motley group of ill kept, under fed, unshaven, rag-tag people. This group resembled the keystone cops, had a leaky generator which spit and sputtered, had to use old table tops laying between big rocks, BUT they had the drive, and desire to do one thing WIN: and they did WIN. We can do it in 1980, but its going to take practice and more practice. You can't become a accratch golfer by playing once a year.

.....

THE PREZ SEZ:

Of course, the highlight of this month is the Southwestern Division Convention in Anaheim. I understand that we can expect to see some new products as well as the most popular items available from the major amateur equipment manufacturers. In addition, technical sessions are scheduled to cover nearly all aspects of amateur radio. I hope to see you there.

For those of you who will not be able to make it to the convention Friday night, there will be an informal club meeting at the normal meeting place. This is a change from the information provided in last months' RF. The Board of Directors decided on this change at the request of some club members. This will not be a regular meeting and no business will be conducted, but Jess, W6LEN, will explain the clubs involvement in the November ARRL Sweepstakes contest. This will be the last meeting preceeding the contest.

I would also like to remind you that a nominating committee has been appointed to establish a slate of officers for 1980. The committee members are Lou, KA6BJO, Chairman; Bob, AF6C; Vic, N6AHB; Lloyd, WB6ULU; and Monte, WD6AUS. Anyone who would like to run for an office whould contact a member of the Nominating Committee or myself. The election for the 1980 officers will take place during the November meeting. The list of committee nominees will be published in the November R.F. Also, nominations from the floor will be taken in November.

In conclusion, we have a lot of club activities in progress and I hope that you will get involved.

"RF"

ORANGE COUNTY AMATEUR RADIO CLUB

OCT. 1979

\*\*\*\*\*

QST DE W1AW  
HR ARRL BULLETIN NR 100  
FROM ARRL HEADQUARTERS NEWINGTON CT  
TO ALL RADIO AMATEURS  
SEPTEMBER 27, 1979

ON SEPTEMBER 27, 1979, THE FEDERAL COMMUNICATIONS COMMISSION TURNED DOWN POINT OF SALE CONTROL FOR AMATEUR EQUIPMENT BECAUSE OF THE DIFFICULTY OF ENFORCEMENT, AND BECAUSE OF THE QUESTIONABLE LEGALITY OF SUCH CONTROL. ON ANOTHER ITEM, THE COMMISSION HAS FORMALLY CHANGED THE RULES TO NOW REQUIRE AN AMATEUR TO USE FORM 610 TO CHANGE HIS MAILING ADDRESS, AND LICENSES SUBMITTED FOR MODIFICATION WILL AUTOMATICALLY BE RENEWED FOR FIVE YEARS. THE ITEM CONCERNING THE USE OF 8 LEVEL ASCII LANGUAGE IN AMATEUR RADIO WAS DELETED FROM THE AGENDA AT THE LAST MOMENT, AT THE REQUEST OF COMMISSIONER BROWN. DETAILS WILL APPEAR IN QST.

QST DE W1AW  
HR PROPAGATION FORECAST BULLETIN NR 154  
FROM ARRL HEADQUARTERS NEWINGTON CT  
OCTOBER 1, 1979  
TO ALL RADIO AMATEURS

BY SEPT 30 THE SOLAR FLUX HAD BEEN HIGH FOR TWO WEEKS, THE LONGEST PERIOD ABOVE 200 SINCE 1960. THOUGH GEOMAGNETIC ACTIVITY WAS HIGH SEVERAL TIMES, LATE SEPTEMBER PROVIDED THE LONGEST AND MOST WIDESPREAD OPENINGS ON 28 MHZ IN THIS SOLAR CYCLE. OBSERVERS REPORTED THE MUF ON EAST WEST PATHS RUNNING OVER 40 MHZ ON SEPT 29. THE SOLAR FLUX IS EXPECTED TO BE LOWER IN EARLY OCTOBER BUT HIGH FREQUENCY PROPAGATION SHOULD BE GENERALLY GOOD, EXCEPT AROUND OCT 3 AND 9. BECAUSE OF THE MORE FAVORABLE SUN POSITION FOR THE NORTHERN HEMISPHERE THE MUF WILL BE HIGHER FOR A GIVEN SOLAR FLUX THAN IN SEPTEMBER. DX VIA THE F LAYER ON 50 MHZ SEEMS UNLIKELY IN OCTOBER, BUT SHOULD COME AROUND OCTOBER 17 AND 21. THESE ESTIMATES WILL BE REVISED AS NECESSARY ON LATER BULLETINS.

QST DE W1AW  
HR ARRL BULLETIN NR 97  
FROM ARRL HEADQUARTERS NEWING CT  
SEPTEMBER 27, 1979  
TO ALL RADIO AMATEURS

THE 12TH AUSTRALIAN SCOUT JAMBOREE, COMBINED WITH THE 4TH ASIA PACIFIC JAMBOREE, WILL BE HELD IN WESTERN AUSTRALIA FROM DECEMBER 29 THROUGH JANUARY 7. SEVERAL AMATEUR STATIONS WILL BE OPERATED AND SCHEDULES, PARTICULARLY WITH SCOUTS OR SCOUT GROUPS, ARE DESIRED. FOR INFORMATION OR SKEDS, WRITE SCOUT AMATEUR RADIO VK6SH 12TH AUSTRALIAN JAMBOREE BOX 467 P.O. WEST PERTH, WESTERN AUSTRALIA, 6005.

.....

\*\*\*\*\*  
\* MYATT & SMITH \*  
\* COMPUTER PRINTED MAILING LABELS \*  
\* 14721 CANDEDA PL. \*  
\* TUSTIN, CA. \*  
\* 92680 \*  
\* CALL - 838-3271 OR 544-2710 \*  
\* \*  
\*\*\*\*\*

\*\*\*\*\*

CO CO DE MASHVH

WHAT'S AN "OSCAR"

THE WORD "OSCAR" MEANS DIFFERENT THINGS TO DIFFERENT PEOPLE

TO JOHN Q. PUBLIC, IT MIGHT MEAN THE OUTSTANDING ACHIEVEMENT AWARD PRESENTED BY THE MOTION PICTURE INDUSTRY. TO A PISCICULTURIST BREEDING OF THE OSCAR TROPICAL FISH HAS RESULTED IN A LUCRATIVE ENDEAVOR.

BUT TO AN AMATEUR RADIO OPERATOR (HAM) AN "OSCAR" MEANS ONE OF A SERIES OF SPACECRAFT PLACED IN EARTH ORBIT AND CARRYING AMATEUR RADIO EQUIPMENT. IN FACT THE ACRONYM "OSCAR" IS FORMED FROM THE FIRST LETTER OF THE FOLLOWING WORDS: ORBITING-SATELLITE-CARRYING-AMATEUR-RADIO. THERE HAS BEEN EIGHT OSCARS BUILT AND ORBITED AND MORE ARE PRESENTLY BEING CONSTRUCTED.

THE OSCAR SATELLITES ARE USUALLY PLACED INTO ORBIT BY BEING USED TO TAKE THE PLACE OF BALLAST ON REGULARLY SCHEDULED LAUNCHES OF SPACE VEHICLES. OSCAR 1 WAS LOFTED IN 1961, OSCAR 2 IN 1962 AND TWO MORE OSCARS IN 1965. AUSTRALIAN AMATEURS WERE INSTRUMENTAL IN BUILDING OSCAR 5, WHICH WAS LAUNCHED BY NASA FOR THE RADIO AMATEUR SATELLITE CORPORATION (RASAT- A NONPROFIT ORGANIZATION) IN 1970.

OSCAR 6 WAS SENT UP IN 1972 AND EXCEEDED ITS PLANNED LONGEVITY OF ONE-YEAR BY REMAINING USEFUL FOR OVER FIVE YEARS. OSCAR 7 AND 8, LAUNCHED IN 1974 AND 1978 RESPECTIVELY, ARE PRESENTLY IN A CIRCULAR ORBIT OF ABOUT 910 MILES HIGH FOR OSCAR 7, AND 560 MILES FROM THE EARTH'S SURFACE FOR OSCAR 8. THEIR SOUTH TO NORTH (AND N TO S) ORBITS COMBLED WITH THEIR ORBITAL VELOCITY, RESULT IN EACH BEING WITHIN RADIO RANGE OF A SPECIFIC LOCATION ON THE EARTH'S SURFACE TWICE PER DAY.

OSCAR 7 AND 8 WERE JOINED BY TWO SATELLITES OF RUSSIAN ORIGIN CALLED "RADIO SPURT" (R-S) SATELLITES, BUT DO TO PROBLEMS ARE NOT USABLE.

BY THE USE OF THE SATELLITE'S RE-TRANSMIT (TRANSPONDER) CAPABILITY AND WITH THE RIGHT EQUIPMENT, AMATEUR RADIO OPERATORS THAT ARE SEPARATED BY OVER 4000 MILES CAN COMMUNICATE WITH EACH OTHER FOR 5 TO 20 MINUTES AS THE SATELLITE PASSES OVERHEAD. OSCAR 8'S LOWER ALTITUDE RESULTS IN A REDUCED STATION SEPARATION AND SHORTER COMMUNICATION TIME THAN WITH OSCAR 7.

THIS TWO-WAY COMMUNICATION KNOWS NO INTERNATIONAL BOUNDARY. AMATEURS FROM OVER 100 COUNTRIES ARE PRESENTLY USING THESE SATELLITES AND MAKING THOUSANDS OF RADIO CONTACTS TO SHARE WITH EACH OTHER THE TECHNICAL KNOWLEDGE AND EXPERIENCES GAINED THROUGH THE PHENOMENA OF AMATEUR RADIO.

SO WHAT DOES THIS MEAN TO YOU ?

TECHNICIAN CLASS ( AND ABOVE ) AMATEUR RADIO OPERATORS ARE PRESENTLY AUTHORIZED TO SEND AND RECEIVE MORSE CODE (CW) VIA ANY OF THE OSCARS USING SPECIFIC FREQUENCIES. WITH AN INTERFACE BETWEEN YOUR COMPUTER AND YOUR TRANSCIEIVER, YOU CAN PROGRAM YOUR COMPUTER TO CIPHER OR DECIPHER THE MORSE CODE. ( ONE SUCH

INTERFACE IS MANUFACTURED BY MACROTRONICS)

THE PRESENT OSCAR SATELLITES OFFER ABOUT 4000 MILE COMMUNICATION RANGE BETWEEN STATIONS AND A LIMIT OF ABOUT 20 MINUTES ON EACH PASS THIS IS A VERY SHORT INTERVAL ALSO HUNDREDS OF COUNTRIES ARE PRESENTLY OUT OF RADIO RANGE OF U.S.A. STATIONS. A NEW STAR ON THE HORIZON WILL SHORTLY CHANGE THESE LIMITATIONS. THE FIRST SATELLITE IN A NEW SERIES ( PHASE III ) IS PLANNED FOR POLAR ORBIT ABOARD A EUROPEAN ROCKET IN THE SPRING OF 1980.

ONE OF THE DIFFERENCES BETWEEN PHASE III AND THE PREVIOUS SATELLITES IS THAT IT WILL BE PLACED IN A POLAR ELLIPTICAL ORBIT INSTEAD OF A CIRCULAR ORBIT. THE ELLIPTICAL ORBIT IS PLANNED SO THAT THE APOGEE WOULD EXCEED 20,000 MILES FROM EARTH IN THE NORTHERN HEMISPHERE, PRIOR TO RETURNING TO A PERIGEE OF APPROXIMATELY 900 MILES ABOVE THE EARTH. ( APPROX 13 HOUR ORBIT - 11 HOURS IN NORTHERN HEMISPHERE AND 2 HOURS IN THE SOUTHERN HEMISPHERE ).

ANOTHER DIFFERENCE IS THAT OF THE CHANNELS AUTHORIZED FOR COMMUNICATION. A DIGITAL CHANNEL HAS ALSO BEEN INCLUDED FOR THE DIRECT TRANSMISSION OF ASCII. THE FEDERAL COMMUNICATION COMMISSION HAS RECENTLY APPROVED A WAIVER TO ALLOW AMERICAN OPERATORS TO USE ASCII WITH THE PHASE III SATELLITE.

AS YOU CAN IMAGINE, THIS NEW PHASE III SATELLITE WILL BE OPENING UP THE WORLD FOR AMATEUR INTER-CONTINENTAL SATELLITE COMMUNICATIONS. THIS REVEALS THE POSSIBILITY OF COMMUNICATING WITH EUROPE ON HAND HELD "WALKIE TALKIES".

THE FRATERNITY OF WORLD AMATEURS WILL HAVE TAKEN ANOTHER STEP FORWARD. IF YOU ARE NOT NOW A MEMBER, HOW CAN YOU JOIN THIS ELITE EVER PROGRESSING WORLD-WIDE FRATERNITY ? THE ANSWER IS TO OBTAIN YOUR AMATEUR RADIO LICENSE.

IF YOUR COLLEGE DOES NOT TEACH AMATEUR RADIO, THEN DROP A LINE TO : THE AMERICAN RADIO RELAY LEAGUE 225 MAIN STREET NEWINGTON, CT. 06111 PLEASE.

THE TRS80 NET TIME/FREQUENCIES FOLLOW:

SUNDAY	1900Z	14.342 MHZ.	A3	COORD MASHVH
	2200Z	14.342 MHZ.	A3	COORD MDSAS
DAILY	0300-	14.060 MHZ.	CW	COORD VEGAMM
	0400-	14.075 MHZ.	RTTY	COORD MBSVQG
WK END	0800-	7.125 MHZ.	CW	COORD MDSAS
	1700-	14.065 MHZ.	RTTY	COORD WMAALV

HOPE TO HEAR YOU ON THE AIR SOON.

73, BILL MASHVH

931 North Euclid Avenue, Anaheim, California 92801

Wall Henry, Sr. W6ZM  
931 N. Euclid Ave.  
Anaheim, California 92801  
(714) 772-9700 - (213) 430-7997

Henry Radio

714/772-9700 - 213/430-7997



BROADWAY PRESS

(714) 835-2069  
845 N. Broadway  
Santa Ana, CA 92701

Lionel Franco



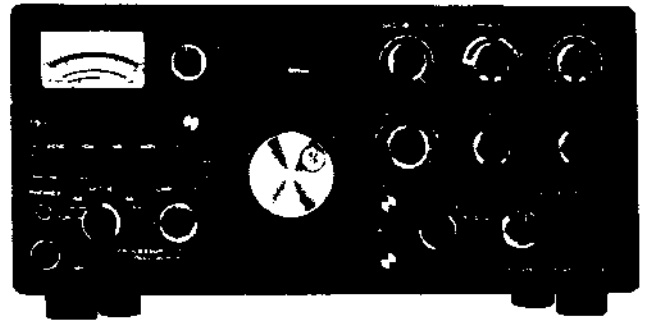
Bob Ferrero, W6RJ K6AHV, Jim Rafferty, N6RJ  
 other well known hams give you courteous  
 personalized service



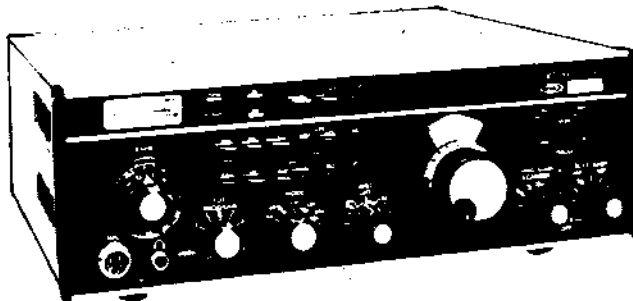
## CALL US FOR SPECIAL PRICES ON:

- ALDA • ALLIANCE • ALPHA • AMECO • ATLAS • BIRD •
- CDE • COLLINS • CUSHCRAFT • CURTIS • DENTRON •
- DRAKE • EIMAC • HUSTLER • HY-GAIN • ICOM •
- KENWOOD • KLM • MFJ • MOSLEY • PALOMAR • ROHN •
- ROBOT • SHURE • SWAN • TELEX • TEMPO • TEN-TEC •
- TRISTAO • TELREX • TRI-EX • WILSON • YAESU • more.

## KENWOOD!



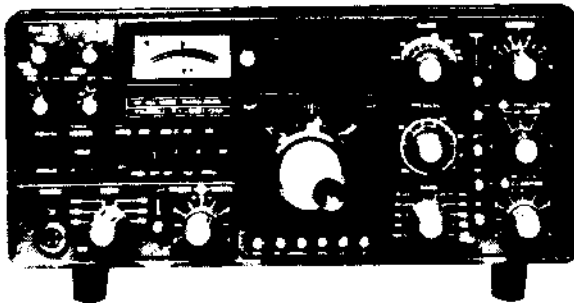
## DRAKE!



## ICOM!



## YAESU!



**ANAHEIM, CA. 92801**  
 2620 W. La Palma  
 (714) 761-3033, (213) 860-2040  
 1 mile east Knotts Berry Farm

**SAN DIEGO, CA. 92123**  
 5375 Kearny Villa Road  
 (714) 560-4900  
 Highway 163 & Claremont Mesa Blvd.

**BURLINGAME, CA. 94010**  
 999 Howard Avenue  
 (415) 342-5757  
 5 miles south on 101 from S.F. Airport

**VAN NUYS, CA. 91401**  
 6265 Sepulveda Blvd.  
 (213) 988-2212  
 San Diego Fwy at Victory Blvd



**OVER THE COUNTER (Mon. thru Sat. 10 AM to 5:30 PM)**  
**MAIL ORDER, Phone, Write.**

"RF"

ORANGE COUNTY AMATEUR RADIO CLUB

OCT. 1979

\*\*\*\*\*

### ID YOUR GEAR

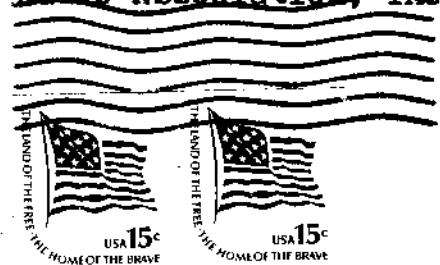
Let's discuss some methods for IDing your gear. For starters, make your markings deep enough that they cannot be easily polished away and place them on the outside where they can be seen without tearing the radio apart. Then use:

1. Your call sign - not much help to police, but best mark of all at a hamfest...particularly one at which you and your loss are known; plus;
2. The rig serial number - IDed as "S/N 1234" -- too many radios have easily removed serial plates or tags; plus,
3. Your drivers license number - IDed with state as "(IL) ABC-XXX-1234" -- this gives police anywhere a path back to you for your recovered gear; plus (optional),
4. Your name and address - easy to follow by police but just as easily by the thief.

Selling or buying equipment so marked should not be a problem provided both buyer and seller get and keep copies of a descriptive bill of sale. Buyers should also insist that the seller verify his identity, since you're the one stuck if the rig is hot and you can't get back to him.

Completely IDed gear will still be stolen, since much of it seems to be going to CBers who think they're getting CB radios, but good ID can greatly improve recovery rates.

TNX to the Squelch  
Anaheim Amateur Radio Association, Inc



ORANGE COUNTY AMATEUR RADIO CLUB, INC.  
POST OFFICE BOX 95  
ORANGE, CALIFORNIA 92688

VOL. XX, NO. 10 - OCTOBER 1979

FIRST CLASS MAIL!!!

DATED MATERIAL!!!