



ORANGE COUNTY AMATEUR RADIO CLUB

VOL. XXXIII NO. 7

P.O. BOX 3454, TUSTIN, CA 92681

JULY, 1992

**JULIAN MACASSEY,
N6ARE TO SPEAK AT
JULY MEETING**

Earthquakes, earthquakes, earthquakes are on every Southern Californian's mind lately - Well, this talk is not going to be on earthquakes! Instead, Julian Macassey, N6ARE will be talking on the workings of the telephone system, or perhaps on a subject he's wanted to talk on for a long time - how to make a really good cup of tea! (Julian also holds a "G" call) Whatever Julian selects for his topic you can be sure it is going to be entertaining and educational. Don't miss it.

Members who were in the club a few years back will remember Julian's last visit when he presented a talk on nicad batteries. Many of

you have requested we invite him back again. I followed his advice on caring for nicads and am still using the original battery pack that came with my IC2-AT over ten years ago.

Julian is quite a dynamic speaker

**July 17th Program:
JULIAN
MACASSEY
N6ARE**

with a lively sense of humor. He has given presentations at many of the radio clubs throughout LA and Orange County and also at ARRL conventions. He can also be found on packet radio in the LA area.

**Minutes
Board Meeting
July 4, 1992**

The July Board Meeting was called to order at 9:35 am by Bob, AF6C, Vice President. The following board members were absent: WA6VKZ, WA3JPG, and K6KAA.

The Treasurer reported \$691.32 in checking and \$1,068.52 in savings. All debts related to Field Day have been paid.

The Membership Chairman reported that the club now has 120 paid members. Bob, AF6C, commented that this is the largest the club has been since the early 1980's.

The Activities Chairman announced that he is in possession of a new AEA PK-232 which is being offered for a club raffle. After at least 400 tickets are sold, the winning ticket will be drawn.

Old Business

Member at Large Ken, W6HHC, announced the preliminary number of contacts that the club made at Field Day: 75 Phone - 294, 40 CW - 200, 40 Phone - 110, 20 CW - 541, 20 Phone - 555, 15 Phone - 840, 10 Novice - 232, OSCAR - 80, 2 Phone - 74, 6 Phone - 13, Packet - 41, 220 - 0, 440 - 1. A total of 2950 contacts were made and with bonus points Ken estimated our score at 7,460 points.

Bob, AF6C, directed the Secretary to write thank you letters to the Red Cross for the use of their lighting trailer

**1992 OCARC FIELD DAY
VIDEO TAPE**

**AVAILABLE AT
THE CLUB MEETING
FOR \$5.00 CASH**

**TO RESERVE YOUR COPY,
CALL NANCY, N6XQR
(714) 537-8728 AND
LEAVE A MESSAGE BY
THURSDAY, JULY 16TH**

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**Prez Sez will return next
month along with the Prez!**

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CRYSTAL CONTROLLED

by Bob Eckweiler, AF6C

Over the past week I've had a chance to monitor the VHF "Crystal" seismic monitor using my PRO-2023 Radio Shack scanner. Let me share with you some of the observations I've noticed while listening to the aftershocks of the recent Landers and Big Bear earthquakes. Since I have no technical data on the "Crystal" system, the comments I'm presenting are to excite others into a new SWL hobby (Seismic Wave Listening)! When and if more data is available on "Crystal" and other seismic radio monitors we will keep you abreast of it in RF.

For those of you who have not monitored "Crystal" it normally transmits a steady audio tone somewhere near 1 KHz. When seismic activity occurs the tone wavers around the center frequency. The shift of frequency appears to relate to the amplitude of the activity. The monitor seems very sensitive and responds to very

small events. The audio tones seem to have an upper and lower tone limit where the system saturates. During events near magnitude 4 the tone saturates fairly rapidly between the two tone limits sounding almost similar to an HF RTTY transmission.

Twice I've been monitoring when the tone appeared to saturate for a period of a second or two at one limit then rapidly switch to the other limit. Both times ground movement was felt in the shack a few seconds after the slow limiting tones started. These shocks were reported at magnitudes 5.2 and 5.5.

While "Crystal" can't predict earthquakes or really give you any substantial warning of a quake coming (no warning if the epicenter is closer to you than the monitor) it does offer a chance to learn more about our unsteady ground.

I'm interested in any one else who has observations on "Crystal", or was monitoring when the magnitude 7.4 struck during Field Day. I've been thinking of attaching a phase-lock-loop circuit to the output and monitor it on a com-

puter. Until Field Day Sunday monitoring "Crystal" was not very exciting - just a steady tone with an occasional small warble. Let's hope it returns to that mode soon!

By the way, these monitors are very low power and a good antenna is needed. The signal is horizontally polarized so a similarly polarized receiving antenna will help by 3 db.

For the frequency of "Crystal" and some of the other seismic monitor transmitters in the Southern California please ask Bob, WB6IXN or me at the next meeting.

1992 CLUB BOARD of DIRECTORS

President.....	Frank Smith.....	WA6VKZ.....	838-3180
Vice President	Bob Eckweiler.....	AF6C.....	639-5074
Secretary	Jane Breller.....	KC6TAM.....	310/866-2077
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Member at Large ..	Ken Konechy.....	W6HHC.....	744-0217
Member at Large ..	Mike Abreu.....	K6KAA.....	832-8503

CLUB APPOINTMENTS

Club Historian	Bob Evans.....	WB6IXN.....	543-9111
W6ZE Trustee.....	Bob Eckweiler.....	AF6C.....	639-5074
RF Editor	Nancy Bucher.....	N6XQR.....	537-8728
Refreshments.....	Cindy Hughes.....	KC6OPI.....	971-3448

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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Dec. 4, 5, 6 -- Irvine

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Dan Fort, AA6LM, Instructor
Aug. 15, 16 -- Irvine
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Oct. 10, 11 -- Irvine
Nov. 14, 15 -- Los Angeles
Dec. 5, 6 -- Irvine

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UNSCRAMBLED HAM
by Linda Davis, AB6KQ

**CAPACITOR
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On the Nets -- June, 1992

by Bob Evans, WB6IXN

5/28 40m CW net - W6ZE/RND checks in IXN, XQR, NT, NG7D, & UF. NG7D is off freq. & OPs move off freq. slightly to find him. XQR plays wid the paddle & increases her speed! NG7D returns, & Nancy copies at breakneck speed! And NT talks to Larry abt FD..tnx, Nancy! And UF taps the key lightly, hoping to avoid the 'Tennessee Valley Indians'!..Hi! NG7D still has a slight realignment problem wid the 'Century', but it does a FB job wid the sigs! John blames it on analog tuning! We all follow W6ZE up freq. slightly to avoid QRM! UF uses the 'hand pump', so setting key speed is no problem fer Larry. Fear not, Ray! Ur speed was FB and so was the copy! RND won't be home nxt wk, so we'll all see John in 2 wks! IXN doesn't 'shake' OPs up wid any sizeable 'events' this week!

6/3 15m phone net - W6ZE/AF6C checks in NGO, IXN, and XO. AF6C's sister returns home frm her visit, & NGO helps California Orange Juice repair his twisted tower, & Kei gets sun tanned frm the arc welder! And XO gets off 2m simplex near Lake Matthews in time to tell us abt the chase of his wayward dog! And AF6C asks Kei abt the 'owner shoots bandit' incident at a liquor store on Chapman Ave.! IXN catches up on NEIC data, & XO helps an OP line up help for an equestrian event in Hollister.

6/3 2m phone net - W6ZE/IXN checks in OPI, ZH & TAM, NG7D, RE, ONZ, YKH, RND, FZE, UF, BWH, VDP, XQR, & KE. OPI, ONZ, & FZE are all home at the same time for a change! Cindy persuades the errant feline that dinner is for the family & not it! Don busies himself wid the 'ins & outs' of the new computer and the new rig, while keeping the hands busy assembling the new chest of drawers! FZE retires.. School tomorrow! TAM, feet propped up in front of the 'boob' tube, leaves QSOs to ZH, who contacts a 3D2 in Fiji, an OH2 on Aland Is., etc. Chris tells OPs Post Office has new IRCs that go airmail..Chris says his QSLs come in faster now! Jane's brother is visiting & TAM starts job interviews..Gud luck, Jane! NG7D buys the Fonda/Hopper vintage motorcycle poster fer a song! John sends two of them off in the mail! And John joins the go-arnd wid XO & his Tracy contact on 15m CW QRP, while he contemplates adding an S-meter and a 3-band crystal calibrator to the Century 21! RE collects abt 3 yds of teletype paper copying ARRL bulletins. And, hve you ever worked DX in ur sleep? Alex has! RE got QSL cards frm Japan, Bucharest, & Moscow, and he swears he didn't work the OPs!?. RE reads vy important ARRL bulletins to OPs and airs an interesting Newsline. YKH & IXN just love computer companies upgrading their hardware & software, & the hours OPs hve to spend to make the whole menagerie work!! RND, off to new adventures tomorrow, asks IXN to handle the CW net Thurs. eve. UF leaves the word processor long enuf fer a check-in, & tell OPs that he still awaits a QSL frm Aland Is., & conveys name of Dennis Hopper to NG7D concerning other person on motorcycle poster. BWH tells ZH & TAM abt auto problem at last

Club meeting, & Bob vanquishes the weeds frm his upcoming corn crop! VDP hops on a couple of 6m openings, & now Larry only needs 4 more grid squares to complete the 100!..(all on 10W & a vertical). XQR hears frm Blanche & Wyatt! They will be at the Club breakfast Sat. at Ricky's Restaurant. And XQR joins BWH in the garden dept., wid tomato plants in bloom, & new roses in the future! And Nancy wrks the CW contest last weekend, wid 5 contacts in the Extra freqs. on 20 & 40m.! KE, body outside wid head in shack, tells OPs abt FD OSCAR yagis he's been working on. And Carmine fell bk on the Outbacker ant. earlier, to work an OP on Cabal San Lucas.

6/4 40m CW net - W6ZE/IXN checks in NT, XQR, ZH, UF, & VDP. RND asks IXN to act as NC. We meet on 7.140.6 + or - QRN & QRM! ZH's rig is off freq. abt 1 KHz & IXN tunes to accomodate the difference. NT hears all OPs 599. And Ray finds sum old pwr line (MARS stuff) if needed fer FD! XQR asks ZH if he was notified of Club Bfast change to Ricky's Restaurant. ZH got the news frm VKZ. XQR asks NT if he will be at nxt meeting. Ray will try to make it! ZH & TAM hve up to 165 DXCC countries confirmed, & Chris & Jane will attend the Sat. Bfast. UF wrks 4J1FS yesterday SSB, wid QRN. Larry wonders if the OP got his call OK! KE stops over at VDP's QTH & Larry & Carmine listen to the 6m FM net. And Larry comments on a variety of freqs. fer this net tonite! And XQR's CW cat is all over her tonite!..Hey, Nancy! Change that cat's name to "CW"!..Hi!

6/10 15m phone net - W6ZE/AF6C checks in NGO, IXN, & XTJ. NGO & COJ complete the re-installation of COJ's tower, & Kei gets back to FD preparations, even running the Club generator for a short time today! IXN can't hear XTJ & vice versa! However, Jim busies himself wid the bicycle races. AF6C meets Art Sheldon, WA6LHB/AD6B, past member & Pres. of OCARC! We will send Art a copy of June 'RF'! IXN reports on a 5 PM 4.3 aftershock of the previous Joshua Tree event.

6/10 2m phone net - W6ZE/IXN checks in XTJ, XQR, NG7D, RE, BWH, HHC, ZH & TAM, VDP, DBY, UF, ESD, (ONZ, OPI, & FZE), & TL. XTJ works the Bicycle Regional Championships, & Jim remarks abt QRN on the 15m net tonite. XQR tells OPs Ricky's Rest. has gud food, gud prices, but delayed Club use of a room fer awhile. Nancy prepares fer more VE testing this weekend at the EICOM Center. NG7D gets a 'thank you' landline frm his friend in Richmond, B.C., Canada, for posters, etc., John sent to him. 430 anyone?..NG7D has one fer sale, wid visions of a new 850 & R7 vertical dancing in John's head! ARRL bulletins, sprinkler problems, non-repairable hard rubber sprinkler line, & decapitating trees occupies RE's time the past week. Alex says HR 73 & SB 1372 are doing well, but more letters to your Congressmen are needed to get them on board! And Alex tells OPs abt a new light bulb wid an RF generator inside!..What next?! BWH joins IXN fighting the garden snails, & Bob is mobile tonite, wid gud sigs, on his way home. HHC booms in at IXN's QTH after mounting the 2m ant. roofside! ZH, TAM, XTJ, & ESD form a 'cold quartet'

Continued on Page 4

Net Notes - Continued from Page 3

all sniffing & sneezing in perfect harmony! However, Chris continues to receive DX confirmations! And Jane prepares to make Brownies for the next Club meeting. VDP says 6m was open most of the day, & Larry picked up wide band QRN abt every 20 KHz! Larry plans to erect a 3 element beam tomorrow. Also, NT, Ray, will provide a horse trailer for the FD station, wid power cords, etc., frn the defunct NARSmen available! Newline was blacked out at DBY's fer abt 15 secs. during Xmission! And ESD's cold doesn't keep him frn all those ladies at the senior citizens dance classes! FZE tells OPs school is out next week, & OPI prepares for a school carnival Fri., while ONZ massages the family laundry! TL has the PK-232 ready fer some lucky Club winner..also, Packet Gold software to go along wid it!

6/11 40m CW net - W6ZE/RND checks in IXN, XQR, NT, NG7D, & UF. RND tnx IXN fer handling the net last week. IXN rpts. all quiet on the Seismic front, & XQR & BWH team up to get 'RF' out extra early! Last week, RND & XYL 'hopped, skipped & jumped' to Utah, Nev. & Ariz.! IXN tnx XQR & TWF fer the fine QSOs wid the FCC in PA, & the Pentagon in Wash., D.C., from the Martin Elem. School in Santa Ana!..Excellent PR, OPs! NG7D says XQR sigs remind him of the QRP rig he sold at last Club auction! And all OPs remark abt poorer band conditions tonite..even NT, who copies all OPs well despite the QRN & fading sigs.! UF misses RND as NC last week, & wonders if RND will be available fer CW operation on FD. Net ends wid an outside OP tuning up on freq.!

6/17 15m phone net - W6ZE/AF6C checks in XO, XTJ, NGO, IXN, RND, XQR, COJ & WA5USU. California Orange Juice 'turns sour' after a jokingly false report that the FD site had been cancelled! Dave informs W6ZE that Dick, USU, in Carlsbad, NM, is calling us. XO, back to work last Mon., switches therapy times, gets up at 4:30 AM, buys a motorcycle tent to play wid, & gets ready fer FD! XQR exclaims, "Who has my coax fer FD!" And Nancy edits last year's 2 hr FD tape to 45 min. fer Club meeting, & prepares log sheets. IXN tells Nancy that a copy of the paper has been sent to JBS. XTJ goes split shift at work & will be on the nets when possible! NGO, wid ants. & generator ready fer FD, doesn't hear much of XQR's xmission. AF6C is getting new tail lights, replacing the ill fitting and cracked ones. Bob shud shine brightly when he puts the brakes on now!

6/17 2m phone net - W6ZE/IXN checks in OPI, KAA, ONZ, NG7D, RND, RE, XTJ, FZE, ZH, TAM, VDP, QW, DBY, XQR, JBS, UF, LRF, & OWD. "School's over. Hurray!", says Cindy, as she hopes the news media 'says it right' wid Club announcements fer FD! KAA listens to the woes of the 'Frazier Peak' bunch as they are greeted wid winter conditions during the VHF Sweepstakes, and prepares to go to the Santa Maria Hamfest on Sun. ONZ needs 2, 2, & 2 fer FD!..(stoves, barbecues, tables & griddles, that is!) NG7D puts the 430 up

fer sale on the Catalina Rptr, & is swamped wid abt 20 calls in 1 hr! And John receives a paper quarter frn a Canadian ham..vintage: 1926-1929! AF6C breaks in to tell NG7D that ZLIBMK is on 21.375, but John just sold the HF rig! RND confirms USU's call frn the 15m net fer IXN, & John hopes to visit Tom, KA1ZRH, fer an eyeball in Oct. JBS will attend Club meeting Fri. eve., & Gary's XYL is awaiting her new ticket...another OP fer XQR's FD YL station! XQR will air a 45 min. version of last year's 2 hr FD tape at Fri. meeting. What!..Oil under JBS' QTH! Icky gunk in the backyard prompts Gary to further research as visions of 'YL Tarpits' (Yorba Linda, that is), or visions of graceful oil rigs dotting the neighborhood, race thru Gary's head! Stay tuned fer Chapt. 2 of 'Gary Toils fer Oil'! UF operates frn the auto in the parking lot of a pizza parlor, having just finished an eyeball wid John, LAB. LRF moves into a new apartment at Huntington Beach, & will soon pass the theory fer the Extra ticket! OWD, Tim, was married to XYL, Elaine, 3 wks ago. Congrats, Tim! RE works a few of the VHF sweepstakes OPs but misses VDP & KAA. All OPs listen as Alex describes a new light bulb that operates on 13.56 MHz wid 25 Watts RF power (or shud we say RFI power!) RE also tells OPs that handicapped persons claiming exemptions must use the new FCC form 610 dtd 3/92, after Aug. 1! Newline tells us that SAREX means 'Shuttle Amateur Radio EXperiment. XTJ tells IXN that we bombarded 2 OPs on freq. at net time! IXN only heard white noise on the freq. when net began. Jim also gives packet & slow scan TV uplinks & downlinks fer STS-50, & tells OPs he has Coleman stove & a barbecue available fer FD. TAM practices code wid ZH. Jane, has IBR heard your 'fist' yet?! Meanwhile, QSLs arrive frn Indonesia, Panama, Kenya, etc. VDP goes on the warpath against the Tennessee Valley Indians!..Larry dismantles the G5RV ant. after coupling & feed impedance problems are discovered! Then QW takes the mike to tell us that the Commodore 64 is ready fer FD, & that VDP will be preparing cables fer the new digital audio filter. Code practice doesn't keep DBY frn tiling the kitchen, dinette, etc.

6/18 40m CW net - W6ZE/RND checks in NG7D, UF, XQR, VDP, NT, & IXN. NG7D has a BD coming up! Next net he'll be a yr. older! And XQR does better on 'din-din' tonite than she did last nite wid the 2m net! And Nancy has the edited FD tape ready fer 'Mtg. tmrow nite'! IXN arrives on the net late..an intestinal bug strikes him dwn temporarily! VDP retunes!..He's using QW's TS-850, trying to get used to all the 'bells & whistles'! NG7D manages to stick 'The System' beam at 360 deg., so only hears ZLIBMK fer abt 30 secs.! IXN has a hetrodyne on UF, but manages to hear abt a QSL in frn Croatia! And NT hears all OPs & plans to eyeball wid us at Meeting! Wid sum of us slightly off freq., RND does a super job at reading all OPs FB!

6/24 15m phone net - W6ZE/AF6C checks in NGO, IXN, & QE. AF6C arrives home just in time to start check-ins! NGO's dog, Rocky, has anemia, & IXN anticipates an EQ

Continued on Page 5

"RF"

ORANGE COUNTY AMATEUR RADIO CLUB

JULY 1992

FIELD DAY SUMMARY
FOR
THE ORANGE COUNTY AMATEUR RADIO CLUB - W6ZE

BY: Ken/W6HHC & Bob/AF6C

YEAR	80M CW	75M SSB	40M CW	40M SSB	20M CW	20M SSB	17M SSB	15M CW	15M SSB	12M SSB	10M CW	10M SSB	6M PHN CW	2M PHN CW	2M PHN PKT	220 PHN	440 PHN	144/440 OSCAR	NOVICE (CW)	OSQ's / (POINTS)		
1968	10	224	62	396	93	328	-	24	430	-	0	68	0	0	145	0	0	-	0	0	1,780 / 3,938	
1969	0	98	0	50	0	375	-	0	301	-	0	0	0	169	-	0	-	-	0	0	993 / 1,986	
1970	0	272	0	0	0	531	-	0	426	-	0	0	0	0	-	0	-	-	0	0	1,229 / 2,458	
1971	0	274	0	106	0	530	-	0	136	-	0	0	0	0	-	0	-	-	0	0	1,048 / 2,092	
1972	0	50	0	350	0	521	-	0	530	-	0	0	0	94	-	0	-	-	0	0	1,545 / 3,090	
1973	90	226	0	452	0	932	-	0	273	-	0	0	0	46	-	0	-	-	0	0	2,019 / 4,218	
1974	0	161	0	333	0	630	-	0	342	-	0	110	0	0	-	0	-	-	6	5	1,600 / 3,248	
1975	80	120	154	274	40	863	-	140	259	-	0	123	0	0	-	0	-	-	0	0	2,053 / 4,934	
1976	99	254	152	487	21	600	-	64	210	-	2	54	0	2	-	0	-	-	0	0	1,945 / 4,566	
1977	25	243	183	199	0	843	-	47	486	-	0	309	0	4	234	0	-	-	0	19	34	2,810 / 5,812
1978	14	196	242	170	30	981	-	50	558	-	0	145	0	1	164	23	-	-	2	4	2,600 / 5,928	
1979	0	195	198	92	42	773	-	0	737	-	0	95	0	2	124	8	-	-	0	0	2,268 / 5,018	
1980	20	149	205	235	471	318	-	52	1,025	-	0	226	12	0	100	36	-	-	0	0	2,849 / 7,194	
1981	0	167	200	265	60	699	-	77	717	-	0	105	0	0	197	0	-	-	0	0	2,487 / 5,648	
1982	0	105	49	238	40	352	-	0	515	-	0	72	0	0	155	27	-	-	0	10	1,582 / 3,400	
1983	3	93	200	0	0	776	-	0	995	-	0	43	18	0	16	1	-	-	0	0	2,145 / 4,696	
1984	0	0	310	0	32	196	-	0	350	-	0	0	0	0	0	0	-	-	18	3	941 / 2,672	
1985	81	0	311	91	35	662	-	75	0	-	0	0	0	22	-	0	-	-	4	4	1,288 / 3,602	
1986	0	48	219	78	0	488	-	0	45	10	0	0	0	82	0	0	-	-	0	0	968 / 2,374	
1987	22	0	0	39	0	708	-	0	18	1	0	0	1	5	5	0	-	-	0	0	982 / 2,202	
1988	127	0	66	75	2	359	-	0	570	0	0	81	0	32	14	0	-	-	0	27	1,497 / 3,738	
1989	30	0	98	5	0	906	-	21	172	0	0	238	3	0	121	18	24	9	1	0	1,646 / 3,590	
1990	0	0	70	144	0	370	-	0	747	0	0	131	39	0	114	2	14	26	0	0	1,657 / 3,454	
1991	105	308	182	182	400	623	23	9	463	0	0	104	4	0	141	48	23	11	0	0	2,626 / 8,740	
1992	0	294	200	110	541	555	0	0	840	0	0	232	13	0	74	41	0	1	2	80	2,983 / 7,530	

Note: These are raw contacts taken directly from the log sheets. Adjustments have not been made for duplicate contacts, and bonus points have not been added yet. Final scores appear in GST in the fall.



ARRL NATIONAL CONVENTION

August 20 - 23, 1992

Los Angeles Airport Marriott Hotel



Sponsored by Los Angeles Area Council of Amateur Radio Clubs
and Orange County Council of Amateur Radio Organizations

EARLY BIRDS RECEIVE FREE LOGO PIN

EXHIBIT HOURS

Friday: 6PM to 9PM
Saturday: 9AM to 5PM
Sunday: 9AM to 1PM



PRIZES

Early Bird Prize
Advance Registration Prize
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Grand Door Prize

SPECIAL EVENTS

Thursday: Industry Reception
Friday: ARRL Educational Workshop,
Hospitality Suites
Saturday: Breakfast, Swap Tables,
Alternative Programs,
Volunteer Exams, Luncheon,
Banquet, Wouff Hong
Sunday: Breakfast, Auction, T-Hunt

PROGRAM HIGHLIGHTS

ARRL & FCC Forums
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ARES/RACES/NTS
AMSAT/QCWA/MARS
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_____	Early Bird Registration (Before 5-15-92 - Includes Pin)	@ \$10.00 _____
_____	Pre-Registration (Before 8-1-92)	@ \$12.00 _____
_____	Admission (After 8-1-92) (16 years and under - Free)	@ \$15.00 _____
_____	Saturday Breakfast	@ \$12.00 _____
_____	Saturday Luncheon	@ \$15.00 _____
_____	Saturday Banquet	@ \$30.00 _____
_____	Sunday Breakfast	@ \$12.00 _____

TOTAL ENCLOSED: _____

Make checks payable to HAMCON Inc., P. O. Box 570756, Tarzana, CA 91356

CLUB MEETINGS

GENERAL MEETING

July 17th

August 21st

September 18th

BOARD BREAKFAST

August 1st

September 5th

General Meeting is the 3rd Friday of each month at 7:30 PM
Anaheim Emergency Operations Center

909 East Vermont Anaheim, CA
West of 2nd set of railroad tracks.

A big antenna is in front with a red light on top.

Vermont runs east and west between Harbor and State College
Vermont is north of Ball and South of Lincoln

Board Meeting is the 1st Saturday of each month at 8:00 AM
Ricky's Restaurant-- Members and Visitors are welcome
10911 Westminster Ave. Garden Grove, CA (714) 539-7538
Northwest corner of Westminster and Euclid. South of 22 Fwy.

CLUB NETS

<u>BAND</u>	<u>MODE</u>	<u>DAY</u>	<u>LOCAL TIME</u>	<u>FREQ. MHz</u>	<u>NET CONTROL</u>
15 Meters	SSB	Wed	8:00 PM	21.375*	AF6C
2 Meters	FM	Wed	8:30 PM	146.550 simplex	WB6IXN
40 Meters	CW	Thur	8:00 PM	7.141*	WA6RND

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

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



First Class Mail

Time-Dated Material.
Please Rush!!