

NOVEMBER 1974

SQUELCH TALES

San Diego Repeater Association



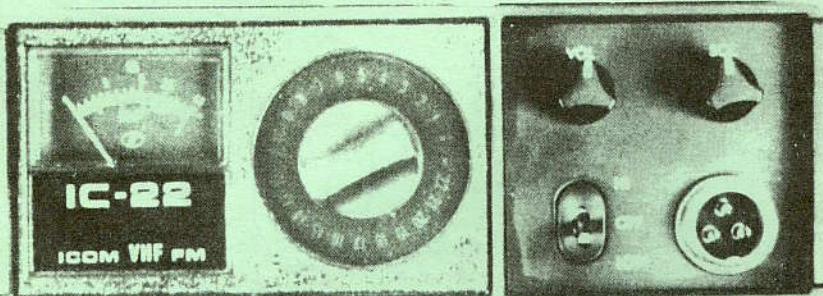
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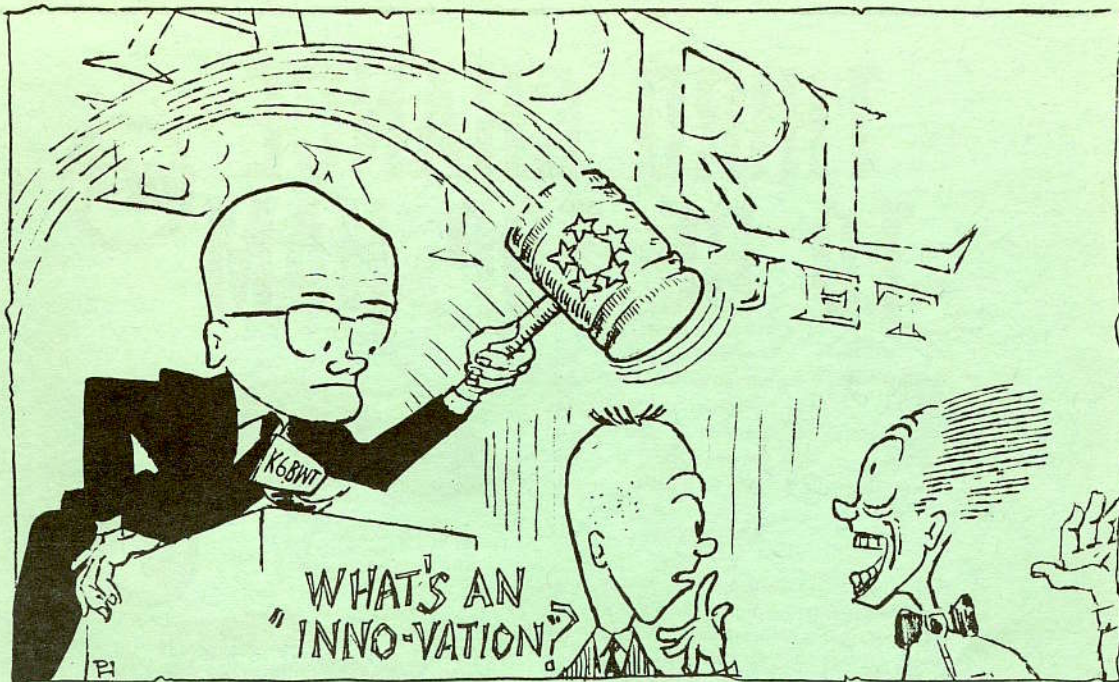
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One of the innovations at the ARRL 1974 Convention banquet was that the League Officials were not seated at a head table, but instead, were scattered around the tables so that the amateurs could talk with them and give their views to their elected officials. (or was it so Sam would not have any competition on stage?) We're kidding, Sam, you did a great job!!

Another innovation in this Editor's view was the excellent speech given by the banquet speaker, Armond Noble, WB6AUH. We felt that this was most inspirational, and therefore are planning to devote several pages of our next month's Squelch Tales to a transcription of Armond's address. Armond is the Editor of The Worldradio News, an excellent public service amateur radio newspaper. For information about it, write to 2509 Donner Way, Sacramento, CA 95818.

The League officials liked the convention here in San Diego so much that we understand San Diego may be able to host the National ARRL Convention in 1978!

We hope you had an excellent time, and if you have any suggestions for making the next one better, let Sam, K6BWT, know, or write the Editor of Squelch Tales with your suggestions.

And now for a topper: The attendance at our convention exceeded that of the last National ARRL Convention in New York City.

de Sybil, W6GIC

THIRD CHANCE TO BE TOP HAM



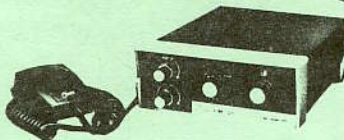
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Priority Message From WB6PLZ



The invocation given by Reverend Lyman Ellis at the banquet:

Our Heavenly Father,

We give Thee thanks for food to eat. We thank Thee for the joys of amateur radio and the friendships that cover many miles and many years. We thank Thee for the opportunity to be of service to our fellow man, to give assistance to those in need, and to help in saving lives.

We ask for your help as we try to meet the problems that come with malicious interference from those who mess up your airways. We implore that you will change the hearts and the practices of the intentional jammers. But, Lord, please take care of them in one way or another, by means in your power that may go way beyond our imaginations. If it seems best, you might even give them their eternal reward sooner. But help us not to hate them.

We thank Thee for the time given by those who have made this Convention possible. Use us, Lord, in Thy service and help us always to care.

Amen.

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A SURPLUS ROOM U SHOULD SEE

K6NC W6EBX W6OME W6BZE



This cartoon of A. Prose Walker, drawn by our own Paul Hower, was presented to Prose at the Saturday night banquet.

Prose spoke to the convention goes about the proposal to restructure the amateur service. This includes proposing a Communicator License that would require no code and restricted power and probably F3 emission. This would be in the VHF-UHF range. Then there would be a Technician License, and finally, the Experimenter License. Prose stated that this would give incentives in the VHF-UHF range like there are now in the HF range with the General, Advanced, and Extra Licenses.

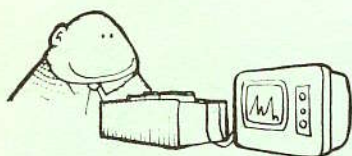
Thus you would have parallel license structures for HF and VHF-UHF, and could climb either or both ladders of achievement.

Along with this there would be a reshuffling of Amateur prefixes in the calls so that you could tell what kind of license the person had by the prefix like the WR for repeaters.

Comments are solicited on the proposed restructuring. The FCC wants to hear from YOU!

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DICK FLANAGAN, W6OLD, APPOINTED CHAIRMAN
OF VHF REPEATER ADVISORY COMMITTEE

A surprise announcement at the Southern California Repeater Association Meeting at the Convention was made by John Griggs, W6KW, when he told the organization that Dick Flanagan, W6OLD, present President of SCRA that he had been appointed Chairman of the VHF Repeater Advisory Committee. This announcement was received with a rousing round of applause because of the high respect Dick holds among VHFers in Southern California.

The following is an excerpt from the Chairman's Report in the SCRA Bulletin:

COVERT RULE CHANGES BY THE FCC?

One of the primary justifications the Commission has used in some of their more repressive interpretations has been the logical separation of the "control" and "operate" functions as they relate to an amateur radio station. They have said that to control is not to operate and, most importantly, to operate is not to control. This has been their rationale for requiring that a licensed Control Station do nothing more than effect the control of its associated remotely controlled station and that to operate, i.e., communicate, through it a separate Auxiliary Link station must be used. This is in spite of the fact that Section 97.108(a) stated "An amateur radio station may be operated by remote control... from an authorized control point..." (Emphasis supplied). Since this section appears to directly refute their interpretations, it was probably considered to be a source of possible future embarrassment to them. In what appeared to be an attempt to preclude this from happening, on Tuesday, 11 June 1974, under the guise of a "... minor editorial revision...", this section, 97.108(a), was changed to read "An amateur radio station may be remotely controlled... from an authorized control point..." (Emphasis supplied). In other words, where before we could operate a station from its control point, now we may do nothing more than control it; where before this section contained a very reasonable and logical restriction, its level of restrictedness has been increased to an excessive and unjustified degree. This change, this "minor editorial revision", has effected the removal of a significant amateur privilege.

What this change means to you is that if you have ever used your systems control channel/station to override the input channel and to communicate directly via the output channel, you can no longer do this. No more control station overrides to make announcements; no more control station break-ins to explain system procedures to a newcomer; no more control station communications, PERIOD! I used the term "covert" previously because the FCC made this rule change without a formal Notice of Proposed Rulemaking or Docket procedure, but rather under the heading of a minor editorial revision. In so doing, they prevented us from making any comments or arguments against it and were able to effect the change with almost zero publicity.

I am currently working directly with ARRL General Counsel Booth to see if we have any recourse to this change since it appears to be contrary to the Administrative Procedure and Judicial Review provision of 5 U.S.C. 553. Be advised, however, that getting it changed back could get a bit hairy; the FCC can't very well require a formal petition to reverse a change they made without the benefit of formal rule change procedures, but then how do you go about convincing them to change back something which they must publicly defend as being the same in content as the original?

A "RINGER" IN THE CROSSBANDING DOCKET

FCC Docket 20113, the "Crossbanding Docket", proposes the addition of a new Section 97.126 and describes it in Paragraph 7 of that Docket. This new section, as it is being proposed, is as follows:

"97.126 Retransmitting radio signals.

No amateur radio station, except a properly licensed repeater station, auxiliary link station, or a remotely controlled station in a system with an auxiliary link station, may automatically retransmit the radio signals of other amateur radio stations."

In my opinion, there are three major items of concern embodied within this proposed section:

1. Complete lack of justification. The only thing resembling an attempt at justification is within Paragraph Seven where the statement is made that "... New Sec. 97.126... would incorporate the current policy on other types of retransmissions." (Emphasis supplied.) Apparently the FCC feels that whatever policies are generated internally within the Commission are sufficient, in and of themselves, to justify a formal change in the Rules and Regulations. I don't know just how accurately I am able to read between the lines, but I get the impression that what they are trying to say is that they have been engaging in practices that, if they are not contrary to the Rules, are at least not mandated by them. This proposed new Section would not only legitimise these past practices, but justify their future use. Like most people, I am not concerned with the justification they use to effect de-regulation, but I am concerned with allowing them to set the precedent of "Regulate now, put it in the rules later". I respect the FCC, but not that much!
2. Unnecessarily restrictive. Even though the proposed section refers to the practice of "... automatically retransmit(ing)...", the narrative within Paragraph Seven states "... An example of a prohibited practice would be the retransmission on the 14.0-14.35 MHz amateur band of another amateur station transmitting on the 144-148 MHz band, or vice versa." (Emphasis supplied.) Note that within their example, no mention is made of the prohibited retransmission being "automatic". In fact, their own definition of "automatic retransmit" is "... (the) retransmitting (of) other signals in real time or very near real time." In other words, it is the very fact that the retransmission is in "... real time or very near real time...", and not the fact that it was effected by automatic means, that places the practice within the domain of this proposed new section. This would then place the received transmissions of other amateur radio stations in the same category as music; their appearance within the content of an amateur transmission would render that transmission in violation of the Rules and Regulations. Personally, I fail to see the necessity, nor even the desirability, of adding these new restrictions to an already overly-restrictive Part 97.

3. Detrimental to remote base interests. A very large number of SCRA members are also heavily involved in Remote Base operation and this proposed new section is aimed directly at them. As most of us know, probably the biggest single stumbling block to the proper licensing of most Remote Bases is the FCC's interpretation that the communications audio, both to and from a remote, must be transmitted via an Auxiliary Link station. Most remotely controlled repeaters are also hamstrung by this same interpretation. Of interest here is the fact that the FCC has not stated exactly which section of the Rules and Regulations they were interpreting. It is the belief of many that there is no such section; that they have established a baseless interpretation for the purpose of making illegal that which Section 97.109(b) specifically permits. (97.109(b) states that a remotely controlled station may be operated from its authorized control station(s), be those stations fixed, portable or mobile.) The point that I am trying to make here is that, as far as I know, there is no current basis within the Rules and Regulations for their prohibitive interpretations. One of my primary fears is that this proposed Section 97.126, if allowed to become a part of the Rules and Regulations, will become their basis for these interpretations. Notice the wording of the proposed section. For a remotely controlled non-repeater station to be "legal", it must be ".. in a system with an auxiliary link station...". Now here would be a section that nobody could question the interpretation of; this would create an almost unbreakable bond between Remote Bases and auxiliary links; making the former virtually unlicensable without the latter.

Cheap antennas to speed signals

By the Associated Press

Washington

Using an antenna fashioned from a golfer's umbrella, space engineers have beamed a walkie-talkie message more than 50,000 miles to demonstrate the potential of orbiting satellites for search and rescue mission.

With this inexpensive equipment, downed pilots, shipwreck survivors, and others in distress would be able to summon help from any point on earth via satellite.

The demonstration was conducted on the steps outside the National Aeronautics and Space Administration building by Roy E. Anderson, a General Electric researcher who built the antenna in his spare time from the frame of a golfer's umbrella, a few metal rods, and some wire.

He installed the three-pound device in less than two minutes, opening the umbrella frame and connecting the wiring. He then attached it to a standard five-watt radio identical to the walkie-talkies carried by police and firemen. Such a transmitter has a normal range of about five miles, but the antenna extended its signal reach by more than 10,000 times.

Pressing the push-to-talk button in Morse code, Mr. Anderson beamed a signal to NASA's applied technology satellite, ATS-3, hovering in stationary orbit 22,300 miles above Brazil.

A transponder aboard the experimental communications satellite relayed the signal to GE's radio-optical observatory near Schenectady, N.Y. — a total distance of more than 50,000 miles.

Sent in
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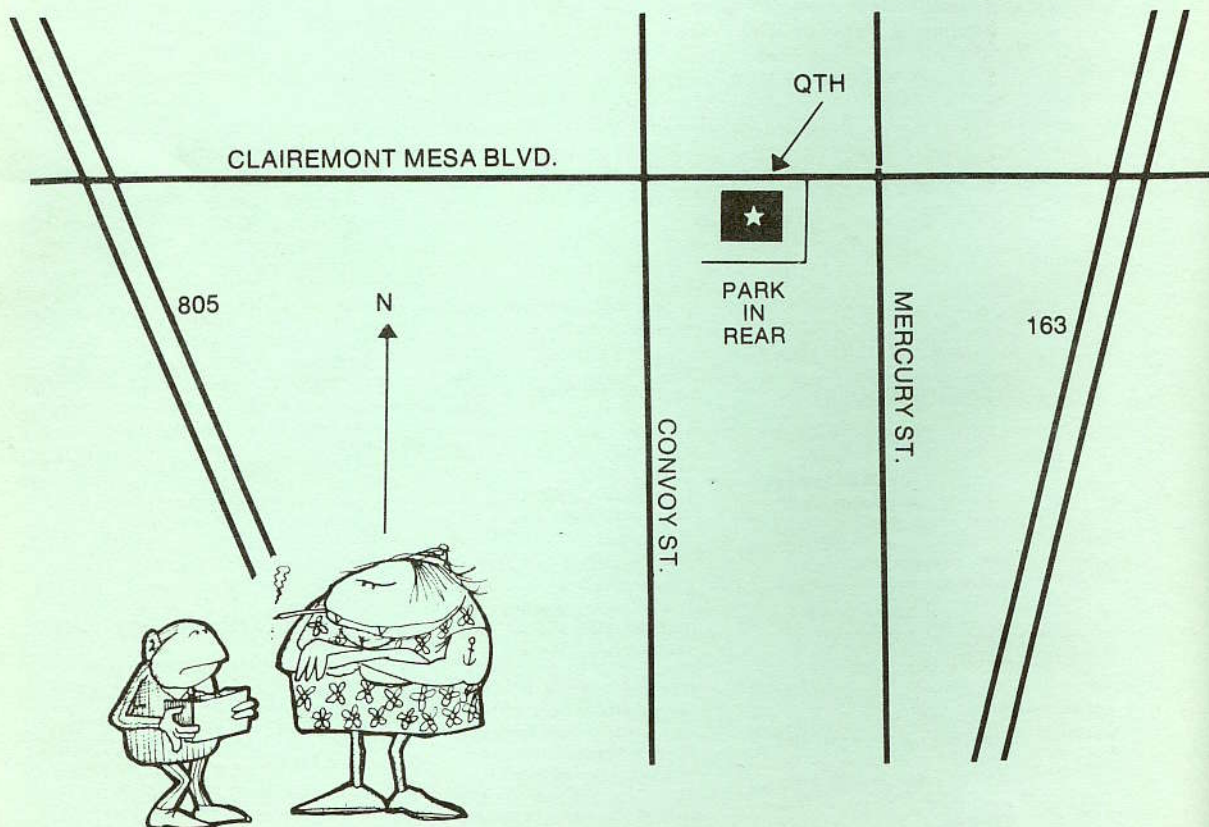
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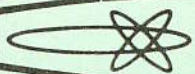
HARVEY WB6YNQ

Report of the Autopatch Repeater Committee to the Board of Directors
San Diego Repeater Association, November 7, 1974

- The Autopatch Repeater Committee met on October 28 with the following members present: K6EUW, WA6KAQ, WB6LEG, WB6PLZ, and WA6SIG. By unanimous action the steps listed below were approved for recommendation to the Board of Directors:
1. That the San Diego Repeater Association authorize an autopatch repeater.
 2. That the location of the autopatch repeater receiver be at 4650 Mansfield St., San Diego, and the transmitter be located at 4667 Hawley Blvd., an adjacent property owned by Lyman Ellis, provided that if and when a duplexer be acquired the whole repeater be located at 4650 Mansfield St.
 3. That the autopatch repeater have open access (carrier squelch).
 4. That authorization be given for immediate application for and financing of a telephone line, residential if possible. (Installation, \$29; monthly service, \$5.94 now, \$8.05 when autopatch repeater goes into service)
 5. That the autopatch repeater include protective devices to prevent telephone problems and toll calls.
 6. That authorization be given for application for and financing of a repeater license, said action having been taken by the Autopatch Repeater Committee now to be the action of San Diego Repeater Association. (\$9.00)
 7. That approval be given to license the autopatch repeater for the present in the name of Lyman Ellis to expedite the licensing procedure.
 8. That approval be given for the cut-off timer to be set at five minutes or less with the Autopatch Repeater Committee authorized to determine through use and experience the best cut-off time.
 9. That approval be given for the purchase of crystals. (about \$25)
 10. That approval be given for the cost of an I.D. device (hopefully minimal with help being received for local construction). (about \$40)
 11. That approval be given for the cost of a functioning telephone control system. (estimated at \$50 to \$100)
 12. That for the present, control of the autopatch repeater be by wire only.
 13. That authorization be given for application for and financing of a control line ("dry line") from 4650 Mansfield St. to 4951 Mansfield St., residence of Lyman Ellis. (Installation \$40; monthly service, \$6)
 14. That the autopatch repeater be authorized for the two-meter band.
 15. That the application to the Southern California Repeater Association in the name of San Diego Repeater Association (Autopatch Repeater Committee) for a frequency pair be accepted as now being in the name of San Diego Repeater Asso.
 16. That possession and custody of the repeater currently in storage and owned by Sandra be vested in the Autopatch Repeater Committee.
 17. That approval be given for the Autopatch Repeater Committee to share with Board of Directors the responsibility of designating control stations, and that for the present WB6PLZ and WA6BGP (Lyman Ellis at 4650 Mansfield) be control stations or control locations for the autopatch repeater.
 18. That approval be given for the application for and the financing of the modification of WB6PLZ and WA6BGP licenses to include control station privileges if and when such modification becomes necessary. (\$8 if used)
 19. That approval be given for the purchase of two antennas and the necessary transmission line. (about \$70)

The Committee then decided to apply immediately for the frequency pair due to the fact that the SCRA Technical Committee would be meeting on Nov. 1 or 2. Also in order to present as complete an application as possible the Committee decided to apply immediately for the repeater license. The Chairman was instructed by the Committee to implement both of these decisions. The repeater license application was mailed and the frequency coordination request delivered (to WB6CYT) on Oct. 31. The status of the frequency request is not known. Design of a control system has started.

Respectfully submitted, Lyman Ellis, Chairman



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All of the proposals of the Autopatch Committee were passed by the Board of Directors at the Nov. 7 meeting. The following prefixes will be a local call for the proposed SANDRA autopatch system:

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223	238	274	283	295	424	442	454	466	562
224	239	275	284	296	425	443	455	469	563
225	262	276	286	297	426	444	459	474	565
230	263	277	287	298	427	445	460	475	566
232	264	278	289	299	428	447	461	477	570
233	270	279	291	420	429	448	462	479	575
234	271	280	292	421	435	449	463	488	582
235	272	281	293	422	437	452	464	560	583



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MEETING NOTICE

At the next General Membership Meeting on Nov. 21, 1974 at 4650 Mansfield, the featured program will be members of the San Diego County Sheriff's Reserve. The program will be communications oriented, with slides and the Communications Van.

An added feature will be provided by W6OYJ, Ed Munn, who will bring a spectrum analyzer to check out your handi-talkies for spurs. So bring them along and see the bad (or good) news.

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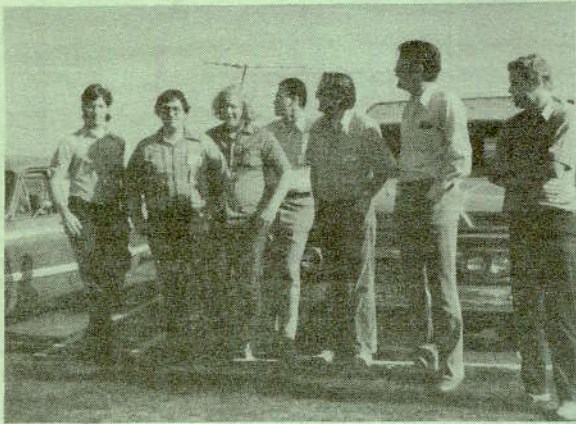
Dual Purpose Antenna

Only Pacificom features a dual-purpose system which enables conversion from a fixed antenna to the built-in whip antenna. When operating as a fixed installation, the coaxial connector from the externally mounted antenna is attached directly to the radiotelephone. By simply disconnecting the external antenna and extending the built-in whip, immediate portable operation is achieved.

"Signal Sampler" Battery-Saver Circuit

An ingenious circuit is incorporated into the Pacificom radiotelephone to extend its battery life up to ten times. By adjusting the Signal Sampler/Squelch control to above the normal "noise" threshold, the receiver is automatically switched "off" 90% of the time, and remains "on" only 10%. When a signal is detected, the set locks on, and normal reception occurs. With the signal removed, the receiver returns to the sampling mode.

CONVENTION T-HUNT



Photos by Stu Hacken, W6GHEE

The last item on the Convention schedule was the big T-Hunt. DCN, W6GHJW, hid the transmitter in the bushes on the east end of Vacation Village Island, with a stronger one to lead you into the area. The grand prize was a KLM 12 W amplifier and it went to W6G1TO from Orange County. K6DYD won the local prize, a Johnson Viking Phone Patch. W6GJGW won the Out of Town prize, a 450 Base Station antenna. The Booby prize was a Motorola 6V to 12 V convertor, vibrator powered. This was won by W6GYVP.

Major casualty was Frank's beam, sorry about that!

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76

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NORTHERN CALIFORNIA (Bakersfield & North)

TWO METER LISTING

OCTOBER 12, 1974

LOCATION	AREA	CALL	INPUT	OUTPUT	MOD	ACCESS	REF	SPONSOR	SOURCE	DATE	USERS
Rescue	Sac. Vly	WR6ACW	146.01	146.61	5-5	C		NYLIC Radio Club	K6AUU	9/74	15
Meadow Lakes	SJ Vly	WR6AFO	146.01	146.61	5-5	C		WA6YDI	WA6YDI	9/74	20
Marin Co.	SF Bay	WR6ACG	146.01	146.61	5-5	C		UHF Engr. Society	WA6JYU	10/74	20
Mt Loma Prieta	SF Bay	WR6ABD	146.04	146.64	5-5	C		Pioneer RC of SJC	K6LLK	9/74	200
Clear Lake	Lake Co.	W6GPK	146.04	146.64	5-5	C		W6GGG	W6GGG	10/74	10
Shingle Springs	Sac. Vly	WR6ABK*	146.07	146.67	5-5	C		Shingle Springs Radio Network	W6JYB	9/74	30
Bakersfield	Cent.Vly South	WA6ZSR	146.07	146.67	5-5	C		Kern Co. ARC	WA6ONI	9/74	25
Mt San Bruno	SF Bay	WA6ZUB*	146.07	146.67	5-5	C		Shingle Springs RN	W6AJR	9/74	20
Mt Tamalpais	SF Bay	WR6ACS	146.10	146.70	5-5	C		Amateur Comm Soc	W6EJY	9/74	300
Meadow Lakes	SJ Vly	W6JPU	146.12	147.71	5-5	C		Repeater Associates	W66GVQ	9/74	33
Montebello Rdg	SF Bay	WR6AEE	146.13	146.73	5-5	C	U	Bay Area Radio Fellowship & SPARK	WA6UJW	9/74	30
Sonoma Mtn	SF Bay	WR6AES	146.13	146.73	5-5	C/B		Sonoma Co. ARS	W6MYG	9/74	30
Mt Chual	SF Bay	WR6ADE	146.16	146.76	5-5	C	C/B1800/ A PL150	Santa Clara Vly VHF Relay Society	K6HLE	10/74	60
Auburn	Sac. Vly	WR6ADI	146.16	146.76	5-5	C		Sierra Foothills ARC	K6ARR	9/74	30
San Luis Obispo	Cent. Coast	WR6ADS	146.16	146.76	15-15	C		Cal Poly ARC	WA6APW	9/74	5
Redding	No Sac. Vly	WR6AFZ	146.16	146.76	5-5	C		W6QWN	W6QWN	9/74	10
Stockton	Stockton	WR6AGI	146.16	146.76	5-5	C		W6YKS	W6YKS	9/74	5
Arcata	Eureka	W6GNHF	146.16	146.76	5-5	C	I	W6GNHF	WA6ICB	9/74	5
San Francisco	SF Bay	WR6ACI	146.19	146.79	5-5	C		G.S.Ladd Pioneer RC	WA6PEO	9/74	30
Sacramento	Sac'to	WR6ADU	146.19	146.79	5-5	C		RANS, Inc.	WA6IQK	9/74	125
Meadow Lakes	SJ Vly	WR6AFS	146.19	146.79	5-5	C	A	Cent. Cal. Am. Comm	W6BHYL	9/74	65
Santa Cruz	Monterey	WA6DYY	146.19	146.79	5-5	C	U	Santa Cruz Rptr Grp	WA6TVN	9/74	20
Yreka	No. Cent.Cal.	K6GZV	146.19	146.79	5-5	C	U	Siskiyou Co. RACES	W6QWN	9/74	5
Oakland	SF Bay, Sac Vly	WR6ABM	146.22	146.82	5-5	G		Grizzly Pk VHF ARC	WA6JLJ	9/74	300
Cuesta Peak	Cent. Coast	WR6AEL	146.22	146.82	7-7	C	A	Central Coast ARS	WA6APW	9/74	30
Meadow Lakes	SJ Vly	W6JPU	146.22	146.82	5-5	C		Repeater Associates	W66GVQ	9/74	200
Fresno	Fresno	WB6TJY	146.22	146.82	5-5	C	U	Repeater Associates	WB6TJY	9/74	1
San Mateo Co.	SF Bay	WR6ADJ	146.25	146.85	5-5	C/B1950		RACES Club, S Mateo	WB6BDD	9/74	60
San Mateo Co.	SF Bay	WR6ADZ	146.25	146.85	5-5	C/B1800		RACES Club, S Mateo	WB6BDD	9/74	-
San Mateo Co.	SF Bay	WR6AEA	146.25	146.85	5-5	C/B2100		RACES Club, S Mateo	WB6BDD	9/74	-
Chico	No. Sac. Vly	W6ICO	146.25	146.85	5-5	C	U	Golden Emp. ARS	W6BIN	9/74	25
Meadow Lakes	SJ Vly	WR6AFH	146.25	147.84	5-5	C	M	WA6OIB	WA6EJZ	9/74	7
Mt Oso	SJ Vly, Sac Vly	WR6ACV	146.28	146.88	5-5	C		Central Valley VHF FM Club, Inc.	WA6ZHT	9/74	80
Oakland	SF Bay	WR6AFP	146.28	146.88	5-5	C/B1800/PL		VHF Repeaters, Inc.	WB6GON	10/74	20
Blue Ridge L.O.	So SJ Vly	WB6OPG	146.28	146.88	5-5	W2200		Tulare Co ARC	W6ARE	9/74	20
McKittrick	So SJ Vly	WR6ACE	146.31	146.91	5-5	C		WA6QFJ	WA6QFJ	9/74	75
Folsom	Sac Vly	WR6AEN	146.31	146.91	5-5	C		Sac'to Area Amateur Emergency Network	K6PWA	9/74	50
Mt St Helena	SF Bay, Sac Vly	WR6AEO	146.31	146.91	5-5	B		Sonoma Mt Rptr Soc	WA6QFF	9/74	20
Sonoma Mtn	SF Bay	WB6SXC	146.31	146.91	5-5	B		Sonoma Mt Rptr Soc	WA6QFP	9/74	-
Bishop	E. Central	WR6ADG	146.34	146.94	5-5	C		Gronk Radio Network	K6BDI	3/74	-
Meadow Lakes	SJ Vly	WR6ACU	146.34	146.94	5-5	C		Fresno Am RC, Inc.	W6YEP	9/74	250
Oakland	SF Bay	WR6ADF	146.34	146.94	5-5	B1800	I	K6SWS	K6SWS	2/73	-
Cohasset	No Sac Vly	WR6AGL	146.34	146.94	5-5	C/B1950		Mt. Vaca RC, Inc.	WB6FKV	9/74	200
Humboldt Hill	Eureka	WR6AGT	146.34	146.94	5-5	C	A	Far West Rptrs	WA6ICE	9/74	30
Mt Pierce	No Coast	WR6AGU	146.34	146.94	5-5	B1800		Far West Rptrs	WA6ICE	9/74	-
Davis	Sac'to	WA6IOK	146.34	146.94	5-5	C	U	Jeff Hilliard Memorial Comm. Inc.	WA6IOK	9/74	0
Berryessa Pk	Sac Vly	WR6ABX	146.37	146.97	5-5	C		Berryessa AR Klub	WB6VKH	9/74	200
Monterey	Monterey	WR6AEZ	146.37	146.97	5-5	W1336	A	Naval Postgrad. ARC	W7BVP	10/74	25
Piedmont	SF Bay	WA6HHQ	146.385	146.985	5-5	C		Piedmont ARC	WA6HHQ	9/74	20
Cohasset	No Sac Vly	WR6AGL*	146.40	147.00	5-5	C/B1950		Mt. Vaca RC, Inc.	WB6FKV	9/74	100
Rio Linda	Sac'to	WR6AGM*	146.40	147.00	5-5	C, T	I	Mt. Vaca RC, Inc.	WB6FKV	9/74	-
Mt Vaca	Sac Vly, SF Bay	WR6AGN*	146.40	147.00	5-5	C, T		Mt. Vaca RC, Inc.	WB6FKV	9/74	-
Mt Vaca	Sac Vly, SF Bay	WR6ACM	146.55	147.57	5-5	C		NORCAL	WB6CUM	9/74	70

LOCATION	AREA	CALL	INPUT	OUTPUT	MOD	ACCESS	REF	SPONSOR	SOURCE	DATE	USERS
Berkeley	SF Bay	WR6AEV	147.63	147.03	5-5	C/B/PL		AMCOM Repeater & Alameda Co. RACES	WA6SBJ	10/74	18
Mt Bullion	SJ Vly	W6BXN	147.63	147.03	5-5	C	U	Turlock ARC, Inc.	K6IXA	9/74	30
Mt Diablo	Sac Vly, SF Bay	WR6ACP	147.66	147.06	10-10	C	U	Mt. Diablo Rptr Grp	K6POU	9/74	-
Alamo (WR6AHK)	Sac Vly, SF Bay	W6CXX	147.66	147.06	10-10	C	A	Rocky Ridge Rptr Grp	W6HOF	9/74	40
Belmont	SF Bay	WR6ABY	147.69	147.09	5-5	C		WB6CKT	WB6CKT	9/74	45
Meadow Lakes	SJ Vly	WR6AGU	147.69	147.09	5-5	C		Fresno ARC, Inc.	WB6ALE	9/74	100
Woodland	Sac Vly	WR6AFH	147.72	147.12	5-5	C	U	Yolo Co CD ARC	WA6UNB	9/74	9
Livermore	Livermore	WA6ODP	147.72	147.12	5-5	C		Livermore ARK (RACES)	WA6SDA	9/74	20
Mt Umunhum	SF Bay	WR6ABH*	147.75	147.15	5-5	C		BAYCOM	K6GSJ	9/74	40
Mt St Helena	SF Bay, Sac Vly	WR6AFU	147.78	147.18	5-5	B1800		Mt St Helena ARS	WA6BIS	9/74	15
Madera	SJ Vly	WA6HMP	147.78	147.18	5-5	C	U	Madera ARC	W6WWT	9/74	20
Mt Umunhum	SF Bay	WR6AHB	147.795	147.195	5-5	C	A,U	Comex Park Rptr Assn	WB6USH	10/74	20
Oakland	SF Bay	WR6AHF*	147.81	147.21	5-5	C	A	Pacific Services RC	WA6TKP	9/74	9
Marin	SF Bay	WR6ADC	147.84	147.24	5-5	C		Wolf Back Ridge R.N.	WA6EUZ	9/74	65
Mt Vaca	SF Bay, Sac Vly	WR6AEI	147.87	147.27	5-5	C		S.A.R.O.	K6FO	9/74	43
Mt San Bruno	SF Bay	WR6ADR	147.90	147.30	5-5	C		WB6VIG	WB6TKD	9/74	40
Meadow Lakes	SJ Vly	WR6AFA	147.90	147.30	5-5	C		WA6SBM	WA6SBM	9/74	10
Sacramento	Sac'to	WR6AGK	147.90	147.30	5-5	C		J.I.Sabin Pioneer RC	K6FO	9/74	15
Marin	SF Bay	WR6AEG	147.93	147.33	5-5	RTTY		CA AR Teletype Soc	WB6IMP	9/74	24
Los Altos	SF Bay, Sac Vly	WR6ACZ*	147.96	147.36	5-5	C		NO Cal DX Club	W6ZYC	10/74	60
Rio Linda	Sac'to	WR6ABZ*	147.99	147.39	5-5	C		W6GO	W6GO	9/74	20
Paradise	No Sac Vly	WR6AGH*	147.99	147.39	5-5	C		W6BCE	W6GO	9/74	5
Los Gatos	SF Bay	WR6AFN	147.99	147.39	5-5	C		Las Cumbres ARC	K6ESC	10/74	10
Mt Vaca	Sac Vly, SF Bay	WR6AGJ*	147.99	147.39	5-5	B	U	W6GO	W6GO	9/74	20

* Indicates closed (private) repeater. All others are open.

ACCESS: C = Carrier operation B = Burst PL = Private Line T = Touchtone W = Whistle

REF: A = Autopatch U = Under construction I = Inactive M = Output to move to 147.855

NORTHERN CALIFORNIA (Bakersfield & North)

220 MHz LISTING

OCTOBER 12, 1974

LOCATION	AREA	CALL	INPUT	OUTPUT	MOD	ACCESS	SPONSOR	SOURCE	DATE
Mt Umunhum	SF Bay	WR6ABH**	222.02	223.62	5-5	C	Bay Area Comm Soc	K6GSJ	10/74
Marin	SF Bay	WR6ADC	222.10	223.70	5-5	C	Wolf Back Ridge R Net.	WA6EUZ	9/74
Mt Vaca	SF Bay, Sac Vly	WR6AGJ*	222.18	223.78	5-5	C	Mt Vaca RC & W6GO	W6GO	9/74
Auburn	Sac Vly	WR6ADI	222.26	223.86	5-5	C	Sierra Foothills ARC	K6ARR	9/74
Mt Vaca	SF Bay, Sac Vly	WR6AGO	222.34	223.94	5-5	C	Mt Vaca RC, Inc.	W6GO	9/74
Mt St Helena	SF Bay, Sac Vly	WR6AFU	222.42	223.02	5-5	C	Mt St Helena ARA	WA6BIS	9/74
Folsom	Sac Vly	WR6AEN	222.50	224.10	5-5	C	Sac Am Emerg Network	K6PWA	9/74
Folsom	Sac Vly	K6IS	222.98	224.58	5-5	C	North Hills Radio Club	WA6WOX	9/74
Mt San Bruno	SF Bay	WA6ZUB	223.06	224.66	5-5	C	Shingle Spr Radio Net.	W6BUR	9/74
Shingle Springs	Sac Vly	WB6ZGT*	223.14	224.74	5-5	C	Shingle Spr Radio Net.	WB6ZGT	10/74
Berryessa Pk	Sac Vly	WR6ABX	223.22	224.82	5-5	C	Berryessa Am Rad Klub	WB6VKH	9/74
Kensington	SF Bay	WR6AFN	223.26	224.86	5-5	C	Kensington Rptr Assn.	WA6ZTY	9/74
Montebello Rdg	SF Bay	WR6AEE	223.34	224.94	5-5	C	Bay Area Comm Soc	K6GSJ	10/74

* Indicates closed (private) repeater. All others are open.

** Indicates on the air repeater. All others are under construction.

CARC-NORTH BAND PLANS
AS DIRECTED BY CONCORD '74

TWO METERS:

30 KHz channels 146.01 through 147.99 MHz. 15 KHz splits only where agreed to by adjacent channel users. Repeater inputs 146.01 through 146.40 and 147.63 through 147.99, plus 146.55. Repeater outputs 146.61 through 147.39, plus 147.57. Repeater input/output spacing 600 KHz except 146.55-147.57 special case repeater. Simplex channels 146.43 through 146.52 plus 146.58, and 147.42 through 147.54 plus 147.60. 146.52 non remote base (low level) simplex, 146.46 remote base (high level) simplex.

220 MHz:

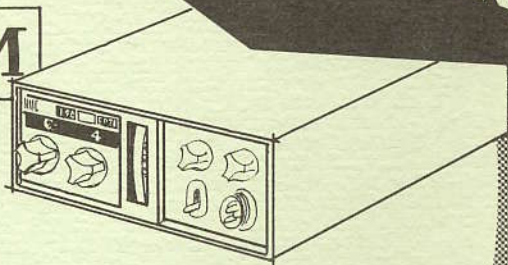
40 KHz channels 222.02 through 224.98 MHz. 20 KHz splits available. Repeater inputs 222.02 through 223.38. Repeater outputs 223.62 through 224.98. Repeater input/output spacing 1.6 MHz. Simplex channels 223.42 through 223.58. National Calling Channel 223.50 MHz.

2 meter FM

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WESTCOM

THE FABULOUS T-HUNT!

The last North County T-Hunt put on by WA6KAQ, WB6LEC, WB6HEE, and others ended up in WA6BEJ's cul-de-sac near the top of Soledad. It was a very good hunt hunt-wise and food-wise! Also prize-wise!

The winners were K6KTP and K6UZP who took a beam antenna. Second was WB6TWL, Steve, who took home a touch tone pad, and third was SLF/GIC team who won a five dollar gift certificate at Gary's. Understand GIC tore it in two so she would have half the credit.

Anyway, everyone had plenty to eat and drink and the transmitter was located in under the hood of WA6VQZ's Jeep.

ANOTHER GREAT HUNT!

The last South County hunt was put on by K6DYD and WA6APU. The transmitter was hidden in a manhole in a sidewalk near Lake Murray, and it was only putting out milliwatts of power, and people kept losing the signal. First in the area was W6NVV, John, but the winner who found the Tag marked No. 1 was Dave, K6QL. The Don, WA6HJW who was riding with the SLF/GIC's found the second tag, and John, W6NVV got the third ticket.

BUILT BY HAM RADIO OPERATORS

Satellite To Be Launched

WASHINGTON (UPI)—A little communications satellite built by amateur radio operators in four nations will hitch a ride into orbit Wednesday aboard a rocket carrying two other satellites launched from California.

The 69-pound radio satellite, called Oscar 7, was put together mainly during evenings and weekends by radio hams from Australia, Canada, Germany and the United States who belong to the Radio Amateur Satellite Corp.

The space agency agreed to carry it into orbit without charge on a space-available basis. It will ride aloft with another hitchhiker — Spain's first satellite, an ionosphere explorer called Itasat A.

The primary payload aboard the Delta rocket is a weather satellite built for the National Oceanic and Atmospheric Administration. It is designed to maintain the government's operational system of orbiting weather watchers.

The three satellites are scheduled to be launched at 9:11 p.m. PST Wednesday from Vandenberg Air Force

Base, and soar into a polar orbit 876 miles high.

Oscar 7 is the seventh and most complex in a series of communications satellites built by radio amateurs. The last Oscar was launched two years ago and has been used by 2,400 amateur stations in 87 countries.

The new Oscar is designed so that amateurs using relatively simple, portable radios and antennas can talk through it to fellow hams thousands of miles away.

One job of Oscar 7 will be to serve as an educational tool for school children. Students using inexpensive ground terminals will be able to receive satellite signals first hand in their classrooms.

Thousands of dollars worth of space qualified parts and test equipment were donated by aerospace companies.

Meeting of the SANDRA Board of Directors Nov. 7, 1974
4650 Mansfield, San Diego 92105.

Board Members Present: K6QL, W6GIC, W6FDA, WAGSIG, WB6DGR, and W6CYT.

Many guests were present. (Forgot to pass sign up sheet:GIC)

It was reported that we have a balance at the present of \$1353 in the treasury, but \$800 of that is committed for the Laguna repeater which is on order. We are also committed to replacing the 450 gear on Otay.

1. It was brought up that we should look into Incorporating the club so that we have the protection that incorporation gives. If anyone is interested in heading a committee for investigating this, please let a board member know.
2. Tony, WB6AMT donated a coax switch and a paper cutter to the club.
3. It was decided to ask Dwight to inventory the club's property.
4. K6BWT told the board members that the convention was so successful that they want San Diego to host the National ARRL Convention in 1978.
5. A discussion was held on the 34/94 repeater at the convention.
6. Wayne was authorized \$150 for accessories for Laguna. Passed unanimously.
7. WB6DGR reported on public service. The city wants us to present a plan as to how we can help them.
8. Don, WA6HJW, was appointed alternate delegate for SANDRA to the San Diego County Amateur Radio Council.
9. The Autopatch committee, submitted a report that was passed by the Board and is printed on another page in Squelch Tales.
10. The meeting was adjourned at 10:00 P.M.

Respectfully submitted,
Sybil, W6GIC
Secretary

HEARD ON THE REPEATER: "Eenie, meenie, miney, moe - is anyone on the radio?"
INSTANTANEOUS REPLY: "Fee, fi, fo, fum - loud and clear with a little hum."
(W8VKR-Ham Shack Gossip)

The State of the Machine
a personal view by WB6CYT

WR6ACF is unlistenable. Disagree? How many of you actually listen to the repeater when you are not talking or looking for someone? Not bloody many, I'll wager.

Between the endless ragchews and discussions of the weather, the rotten signals and the marginal operators, the content of the transmissions repeated by WR6ACF has steadily been declining, ever and ever more closely approximating the principal ingredient of natural fertilizer.

F.M. is (as we know it on two meters) a channelised mode --- with all activity taking place on certain discrete frequencies at regular intervals in the spectrum 146-148 MHz. Because of the limited number of channels available for use in any one area (in San Diego there are only five repeaters---two of them private invitation-only systems---and only six of fourteen SIMPLEX channels are left without repeaters on them) the practice of short, to-the-point transmissions is necessary. It is needlessly discourteous to your fellow ham to spend many seemingly endless (to the listener) minutes discussing this trivia and that tripe, and tying up a TWO HUNDRED MILE RADIUS because you were using the repeater. It seems that the admirable practice of using the repeater as a channel for CALLING ONLY and then switching to 94, 76, 52, 34, or one of the other simplex channels to converse has declined into complete disuse. The other day I heard two people (let's be charitable) LESS THAN FIVE BLOCKS APART using the repeater to ragchew (or gum-flap---a less glorious term for the same thing) when they could easily have switched over to 76 or 52 or 34 and left the repeater available to someone with a valid reason for using it.

There appears to be an increasing number of logarrhea* sufferers on the repeater today --- people for whom time stands still while they talk, so that they are truly unconcious of the disproportionately large amounts of time they spend saying nothing. As one local ham put it, "I don't think I have ever heard two people talk so much and say so little as W6ggg and WA6jjj."

*Logarrhea...from diarrhea: A running off of the mouth.

Perhaps it is just that many people fail to realize that what is so overwhelmingly important to them is not necessarily of the slightest interest to others. I heard one old-timer (that's the nice term) discussing his bowel habits on the repeater the other day...he mentioned that he had just gone to the "little boy's room" (men don't???). I guess it was the biggest event of his day, but it certainly wasn't the biggest event of my day.

I suspect that the recent dearth of technical discussions has a relationship to the dearth of technical interest shown by many repeater users, especially as evidenced by the many crummy signals now making their way through the repeater. Remember that the process of repeating a signal involves some inevitable degradation of the signal being repeated, so that the computer industry's saying: "Garbage in--garbage out!" becomes more than just a trite saying. What is really irksome is that most of these problems (overdeviation, excessive mic gain, off frequency) are usually the result of the user not adjusting his equipment in a proper manner. How many of you know where the deviation pot is in your radio?

If you are worried that opening your radio might void the warrantee (so much for the "reserve of technically skilled personnel" that the FCC talks about as the purpose of ham radio) then take your rice-box to the manufacturer's warrantee station and have it done there --- gives the store some income, and it won't cost you anything if it is in warrantee. Besides, if the manufacturer gets enough warrantee reports for misadjustment, he might just stop looking at the mounds of dollar bills long enough to adjust them correctly in the first place!

How many of you have had somebody break in to your conversation to call someone else? With the exception of the normally impolite people, perhaps this happening regularly means you talk too much. Are you deliberately jammed? If so, perhaps you should review your operating procedure. Although illegal, jamming is one of the surest signs that someone is displeased with you or what you are saying.

It is a downright shame that the over two hundred users of WR6ACF has such a small percentage of ~~x~~ users interested in the customs, history, and advantages of F.M. to concentrate thier efforts towrd the improvement of what could be the best thing to happen to ham radio since spark died.

Last minute happenings: The other night I heard an item of traffic being passed from Oceanside to the south county, for delivery to the east county. This wasn't a life-or-death matter, just a birthday greeting sent from one coast to the other, yet the receiving station ■ here in San Diego found it necessary to tie up fifteen minutes of repeater time, during the busiest hours of the evening, in the middle of someone else's conversation, to save the originator a ten cent stamp, or himself a 35 cent phone call. This is bad enough, but the message traffic was of such importance that during its passing at least one station's attempts to break in with ~~what~~ COULD have been emergency traffic were ignored or jammed. Just think of the many dollars worth of electricity that were wasted passing this message of vital importance from one end of the country to the other when a 10¢ stamp would have done the same---and probably faster too.

One last final word---lets keep the MARS business on the MARS frequencies. WR6ACF is not really the place for the discussion of troop movements, surplus equipment exchanges limited only to MARS members, and other items of military importance. Just because the Navy practically owns San Diego is no reason for it to take over SANDRA too.

With wishes, hopes, and fears about the future of two meter FM,

WB6CYT

the duty grouch.

Ed. Note: Let it be known that the views expressed in this letter in no way reflect the views of this Editor or probably the majority of SANDRA members.

SMALL SWAP NET

K6GAO, Bayard, 277-9036 has 3 boxes TTY paper, \$5 each, 1 box TTY tape \$3, Hi Speed Tape Perforator, make offer.

W6BEJ, Ted, 459-4561, has ANU-8 RTTY converter in cabinet \$35, Fisher A-4 AM-FM stereo receiver, 35 W per channel for \$100.

K6OAC, Vince, 270-2945, has CMU-15 RCA 450 base station, 2 wire remote; xmitter lacking a tube and choke, capable of 30 W for \$100. Mot. 140-D Mobile, 90 W on 94/94 for \$80.

W6AWJ, John, 423-4441, selling out most of his gear. Call for info and make offer.

W6HJW, Don, 222-7263 and U44BBT, Carrier Sq, 2 freq, partial duplex conversion, 4 xtl ovens, w/cable, but no head, mic or spkr. \$75-80.

W6NWL, Mike, 270-1423, has 14AVQ 40-10 meter antenna w/radials, and roof top mounting for \$35.

W6KAQ, Dave, 292-1440 has a KLM 1/70 Amp. 2 W in, 70 W out, like new \$125 or best offer.

W6GPM, Jim, 435-0866 has a Motorola 60 W base station, A-strip rcvr, factory 2 freq, K-strip smtr, Factory 3 freq with AC power supply, 2 freq control head, rack mount with 04/64, 76, 94, and 52 for \$175.

W6AMT, Tony, 271-7859 has a Standard SRG-146 HT with 94, 34/94, 52, and 04/64 in leather carrying case with external m~~ake~~ke, nicads, and base charger. Rubber duck, also. Asking \$300.

W6GHEE, Stu, 287-2949, has a Collins 516-E1 12 V Mobile Power Supply for KW-M2 for \$75. He also has the 351-D2 Collins Mobile Mount for KW-M2 for \$75. Both items together for \$125.

Stu also has a Clegg Thor VI 6 meter AM/CW xcvr with AC & DC supplies. 65 watts for \$140.

SAN DIEGO COUNTY AMATEUR RADIO COUNCIL, INC.
SAN DIEGO REPEATER ASSOCIATION
POST OFFICE BOX 5815
SAN DIEGO, CALIFORNIA 92105



COMING EVENTS

BREAKFAST AT LYMON'S PANCAKE HOUSE
(Normal Heights Methodist Church)
on the Second Saturday of each month.
All other Saturdays we meet at the
Hamburger House on Clairmont Mesa.
Most people arrive around 9:00 AM

Nov. 21 GENERAL MEMBERSHIP MEETING
4650 Mansfield at the Church. 7:30
for socializing and 8:00 meeting.

Nov. 23 T-Hunt starting at Del Cerro
Heights at 7:30. Dave, K6QL hides.

Dec. 5 SANDRA Board Of Directors
meets at the Church. Everyone welcome.

Dec. 7 North County T-Hunt starting
at KGMZW's house in Vista at 7:30.
K6KTP and K6UZZP will be hiding.

Dec. 19 will be our First Annual
Christmas Dinner Party at Ahn's
Oriental Steak House, 7905 Engineering
Road (between Mercury and Convoy E/W
and between Balboa and Clairmont Mesa
N/S). Bring your wife or girl friend
and enjoy each others company. \$7.15

Joan, W6PSE

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