



## HANK'S SWAP SHOP

Hank Davis, W6DTV 7822 Washington Ave  
Phone 823-7885 Sebastopol, CA 95472  
(Noncommercial ham ads are printed for free)

DRAKE L4B KW amp, pair 3-500Z, w/10 mtr  
\$675. Doug WW6D 526-5131.

MFJ-986 1 kW antenna tuner. \$150.00.  
KANTRONICS KPC-4 packet TNC \$150.00.  
ICOM IC725 HF transceiver, AM/FM boards  
\$500. John W6TLK 833-1873.

AZDEN PCS-300 2m HT, P/L, manual, charger  
\$100. Bob WA6OOI 542-2663.

TEMPO 1, HF bands, 100W. \$150. Jim  
N6PTM 823-7947.

WILSON 1402SM HT, extra xtals, mike, BNC  
fitting (no ant). 2 units -- \$120 for both.  
GALAXY MARK 3 HF tube xcvr 80/10, pwr,  
spkr, phone patch, CW filter, wattmeter, extra  
tubes, man \$300. Steve KD6FYK 869-2257.

YAESU FT-DX560 HF 160/10 tube xcvr \$125.  
HALLICRAFTERS S-108 BC/ham tube rx \$75.  
JOHNSON MATCHBOX with coupler, 275W,  
new in box \$150. Grant NH6GP 431-7706.

AMP SUPPLY LK450 RF amp, 1000W, 3.5-29  
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MFJ 941D antenna tuner 300W \$60. Ren  
AA6UY 584-8320.

SWAN MOBILE SWR METER, \$20.00.  
John W6CCY 823-1357

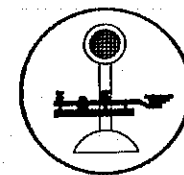
WANT: YEASU FV901R and YO901 scope.  
Don KD6HQ 546-1217.

DATED MATERIAL:  
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JOHN BRECKENRIDGE  
WB6FRZ  
574 WILD OAK DR  
WINDSOR, CA 95492

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Sonoma County Radio Amateurs, Inc.  
PO Box 116  
Santa Rosa, CA 95402



# SHORT SKIP



Sonoma County Radio Amateurs, Inc.

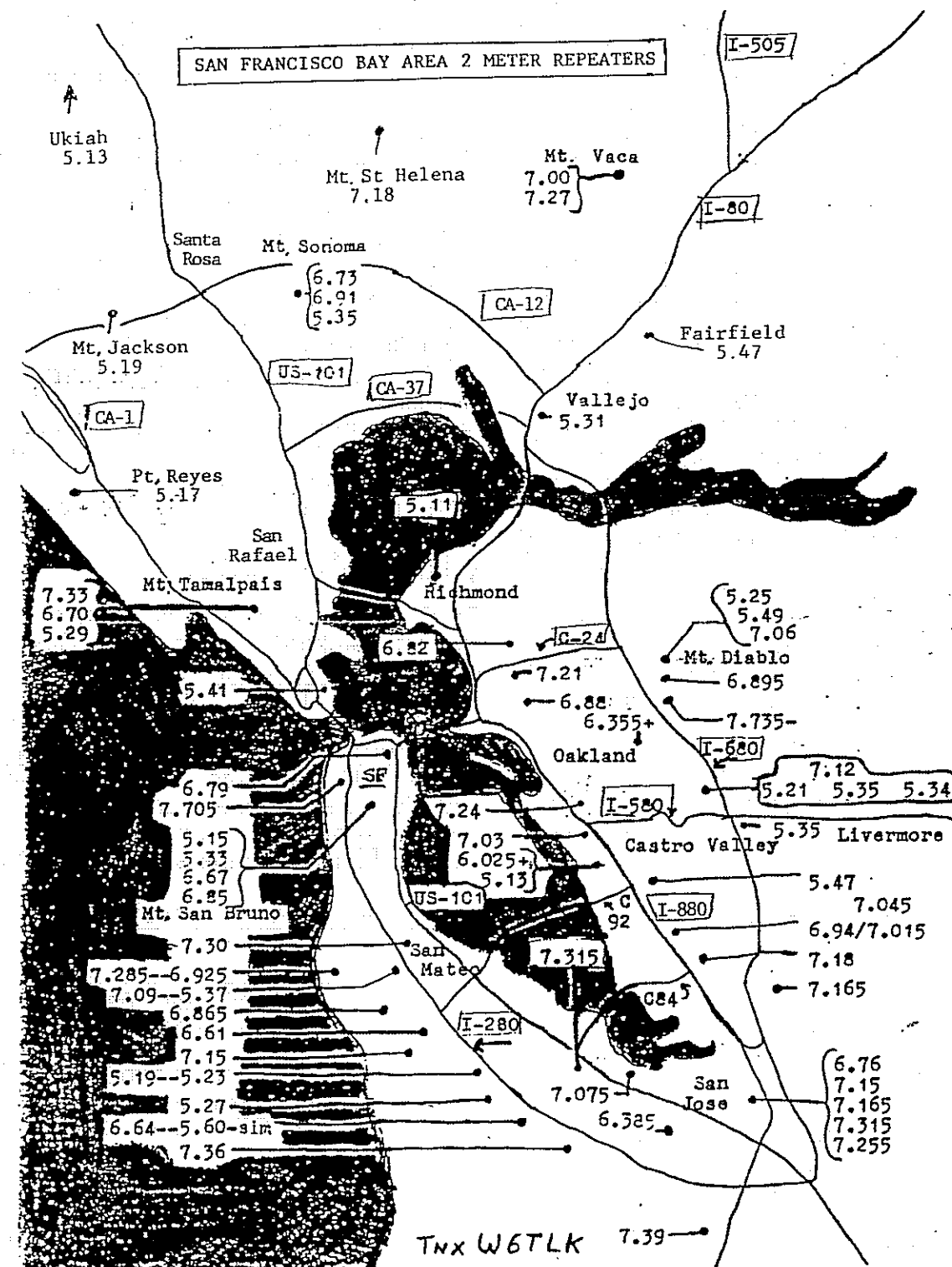
JULY 1992

Club Station  
W6LFJ

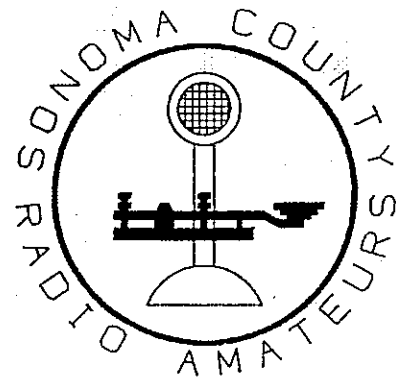
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Repeater Station  
WB6PVS

VOL 17 #7



BULK RATE  
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	Gary Gouger	KC6WTE	575-9119
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ACTIVITIES CHR:	Jim Pelmulder	N6PTM	823-7947
SHORT SKIP STAFF:			
EDITOR:	Alan Bloom	N1AL (e)	538-7115
1578 Los Alamos Rd, Santa Rosa, CA 95409 (d) 577-3981			
CIRCULATION MGR:	Bill Splaine	N6GHG	
SWAP SHOP:	Hank Davis	W6DTV	823-7885

ARRL Liaison: Alan Bloom N1AL 538-7115  
 Ast. Director: Chuck Sabin N6DDK 795-2371  
 Badge Chair: Fred Leoni N6YEU 431-8202

## Activities Committee:

Pub. Service: Kathy Mahan KC6UXJ 823-4980  
 and Don KD6HQ and Rick N6RXA  
 QSL Mgr: Bill Splaine N6GHG 431-8636  
 TVI/RFI: Al Bloom N1AL 538-7115  
 Awards: Steve Lund WA8LLY 823-4544  
 VEC Exams: Steve Lund WA8LLY 823-4544

Education: John Breckenridge WB6FRZ 838-6398  
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Refreshments at meetings: Bob Olsten WD6DPE  
 Greeter at Meetings: Shelly Sourek KD6AFZ  
 Raffle at meetings: Phil Richardson WA6SEU  
 Membership lottery: Walt Burandt KC6RHB  
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 Field Day: Jim Pelmulder N6PTM

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Guaranteed circulation: 200/month  
 AD DEADLINE: 10th of previous month

### ARE YOU NOT AN SCRA MEMBER?

If so, then this is a complimentary copy. Our club is involved with almost every area of Amateur Radio: Repeaters (13/73), Field Day, license classes (Novice through Extra), volunteer exams, RACES, DX programs, packet radio, hidden xmtr hunts -- you name it.

We invite you to attend our next monthly meeting (see below) or check into the Tuesday night SCARS net on the 146.13/73 repeater at 7PM. You will hear the latest Amateur Radio Newsline broadcasts, announcements of SCRA activities and a Swap Shop. If you would like to join SCRA, please refer to the dues listed below. Hope we can have an "eyeball" QSO with you at the next meeting! 73 ...

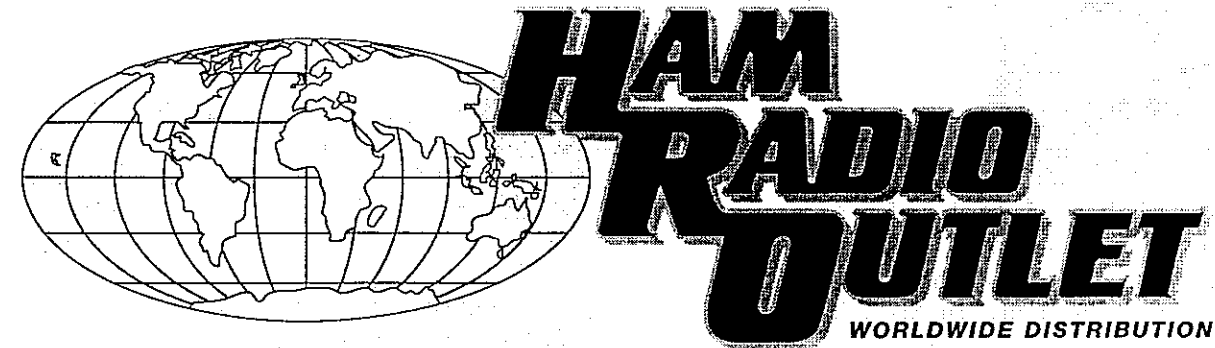
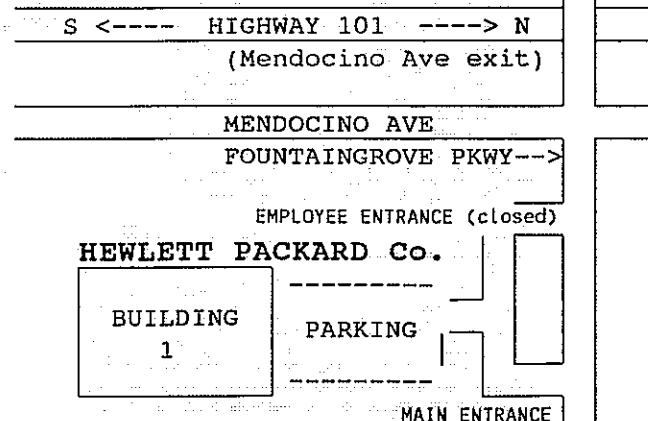
## Club Meetings:

7:30 PM, 1<sup>st</sup> Wednesday each month at the Hewlett Packard plant in Santa Rosa. Anyone interested in Amateur Radio is welcome.

NEXT MEETING: July 1, 1992

PROGRAM: "Everything you Always Wanted to Know About ARRL HQ" by John W6TLK

DUES: \$12 per year, plus a one-time \$4.00 initiation fee. Dues are pro-rated \$1/month for new members who get an SCRA call/name badge. Family memberships are \$18 per year.



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### ALINCO

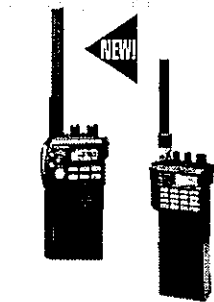
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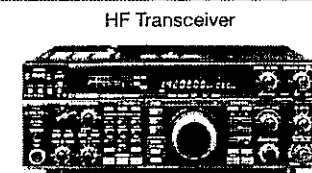


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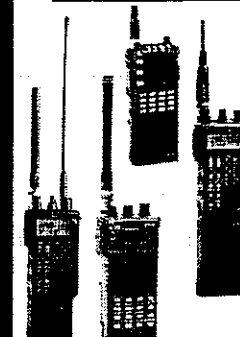
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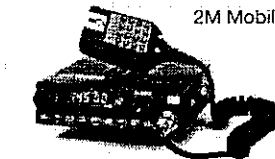
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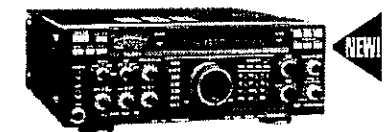
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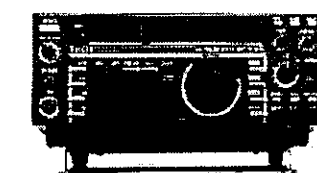
Super Compact HT  
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 2 MTR/2.5 W DTSS  
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**CALL FOR GREAT PRICES**

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#### IC-735



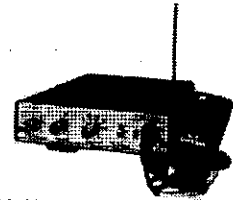
100W 12 volt • 12 channel memory  
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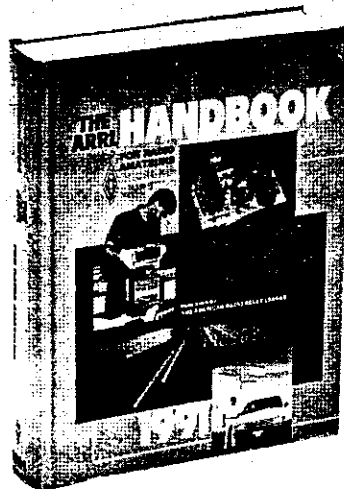
### RAMSEY KITS:

- 2 Meter Synthesized FM Transceiver
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- QRP CW Transmitters
- Etc...



### ARRL BOOKS:

- ARRL Handbook
- License Manuals
- Antenna Books
- Etc...



### POPULAR BRANDS:

- MFJ
- Ameco
- Larsen
- Antenna Specialists
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- Etc...

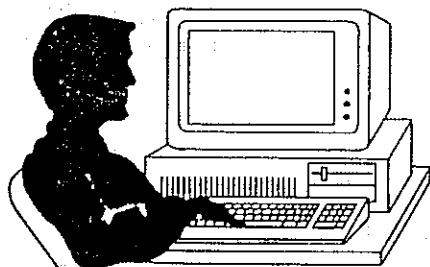
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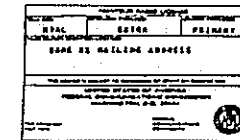
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## UPGRADE EXAM RESULTS

by Steve Lund WA8LLY

On 02 June, 35 candidates took 59 exam elements at the latest SCRA ARRL-VEC exam session held at the EOC. 25 either obtained new licenses or upgraded and 4 others obtained element credit.

New Novices licensees are: Eliakim Marlin.

New no-code Technician licensees are: Bill Marlin, Patrick Mills, Kathryn Rowbotham, Kristie Weber, and Thomas Reid.

Showing that code is not dead, the following earned the Technician license with HF privileges: Eric Havstad, Sandra Moritz KD6GAG, Nancy Andrews, Peter Treguboff, Melanie Kramme, Greg Condrotte WB6WPN, Stephen Kramme, John Rowbotham KC6WTJ, Scott Doty KB6ZLX, Thomas Kehrlein, and Terrell White KD6AAW.

David Duchesneau, Joseph Reid KC6RKY, and Michael Dranginis KC6SSE, all upgraded to the General license.

Edward Jacobsen, James Andrews KC6PJW, Mark Walsh KC6RKZ, and John Shappell KA6GJO, all passed the very difficult Advanced Class exam.

The volunteer examiners for this session were Ken K6UXO, John WB6FRZ, Al N1AL, Bill N6OLD, Robin N6PHP, and Steve WA8LLY. A special thank you is extended to John WB6FRZ, for making a trip home for a tape recorder to replace the VE unit which failed.

## Next Exam Session:

The next exam session will be in September (most likely held in conjunction with the SCRA flea market). There are several methods to find out when the session will be held. A notice will always be posted at HSC Electronics in Cotati. The next best way is to send a business size SASE to Steve Lund WA8LLY, PO Box 476, Graton CA 95444. As soon as the date/time are determined, I'll send you a flyer in the SASE. The worst method is to call me at home.

## Coos Co. RC Hamfest

Saturday July 25, 9 AM - 5 PM

Junior High School, Bend Oregon.

Admission \$5, preregister \$4, tables \$15. Free parking. Fleamart, seminars, VE exams.

Talk-in 146.01/.61. (503) 888-2317.



## High Cascade Hamfair

Saturday August 8, 9 AM - 4 PM

Mt. Bachelor Lodge, 20 miles S.W. of Bend.

Admission \$7, prereg \$5, fleamart sellers \$2 (\$10 w/table). Seminars, commercial exhibits, VE exams, transmitter hunt, non-ham events.

Talk-in 147.06+. (503) 549-7951. Cent. Ore. Radio Amateurs. Don Harrington N7ION, 69706 W. Meadow Pkwy, Sisters, OR 97759.



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## SCRAPS: SCRA Public Service

By Kathy Mahan KC6UXJ

### A Job Well Done

is not enough to say for all of the people who have worked the past three public service events in the month of June, and there's still one to go.

The month began with the **VINEMAN INTERNATIONAL** on June 7. The following people contributed to the success of this mini-Vineman: John W6TLK, Hoppy WD6CKP, Steve KC6NEO, Phil N6OOA, Galen KD6HHT and Doug KC6RHA.

The next event on the calendar was a new event this year called the **1st ANNUAL BUMMER PEAK 25/50**, sponsored by the American Endurance Ride Conference. This event involved approximately 56 horses and riders at Lake Sonoma. The scenery from our different vantage points was magnificent and, according to Marie KI6QY and Rudy N6KLU, the barbecue that afternoon was absolutely delicious. In the meantime, thanks to Don KD6HQ, Bill N6GHG, Marie KI6QY, Bill KA6JLP, Nadine KC6WUI, Bill WA6OLW, Rudy N6KLU and Kathy KC6UXJ.

Bill KA6JLP was looking forward to a great lunch -- After all, he was stationed at the lunch stop. Ask him which he preferred, the oat or the alfalfa! A word of gratitude from Debra, the coordinator. She couldn't say enough about how vital we were to the success of the event. Nice job everyone!

The following day, Sunday, a group of *very patient* SCRAPS volunteers worked on the **CODDINGTOWN LIONS CLUB BIATH-A-LON**: Brad KB6SQY, Gary KD6BOF, Frank KC6WUG, James KD6GSF, Kelly KD6CJQ and Kathy KC6UXJ. Thank you all so much for your time, support and enthusiasm for working public service events. Because of YOU, the people who participate in these events feel safe, and they definitely appreciate our efforts. I would also like to thank Rick KC6UXI and

KD6HQ's son, Trevor, for their time color-coding maps for the events. It sure makes a big difference for all of us. THANKS!

**P.S. A PUBLIC APOLOGY IS IN ORDER.** Last month I incorrectly listed Don Dickey's callsign. Not only did I have the prefix incorrect, but I also goofed on the suffix. Don's correct call is: W6CPE. Sorry about that Don! If your callsign is incorrect or your name is not listed, please call me with the correction. Typos or deletions are not intentional, only temporary insanity. Again thank you all for your participation!

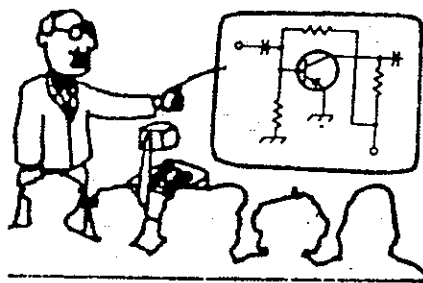
### Upcoming Events:

If you would like to volunteer for any of these events, please call Kathy KC6UXJ at 433-2758 (days) or 823-4980 (eves).

July 12	Sonoma Valley Ride & Wine Festival
July 25	Harvest Century Bike Tour
Aug 1	Vineman (need approx. 55 people)
Sept 12/13	MS Waves to Wine

## Ham Radio Class

John Breckenridge  
WB6FRZ



On Thursday July 9 at 7 PM, Warren (Tracy) Reese WB6TMY will begin a Novice class at the California Spinal Cord Injury Network, 3911 Princeton Drive, Santa Rosa. He may also be willing to help those going for the Technician. Contact Warren at 527-8124.

The course will be one night per week for about 14 weeks. He will be using *Now You're Talking* as the textbook and WILL be teaching code. I do not know if he will accomodate those who are working for the no-code Tech, but it wouldn't hurt to ask. Warren will be using, as a minimum, my notes and quizzes for the Novice course.

## SCRA MINUTES

June 3, 1992



The meeting was called to order by President Merlyn Pfeiff N6VUC at 7:35 PM. Other officers present: Vice President Rick Reiner K6ZWB, Secretary Al Bloom N1AL, Treasurer John Gauger KK6XT, Activities Chairman Jim Pelmulder N6PTM, and Members-at-Large Bill Splaine N6GHG and Gary Gouger KC6WTE.

**VISITORS:** Shelly KD6AFZ introduced 4 visitors.

**UPGRADES & NEW CALLS** since last month include KA6GJO and KC6PJW to Advanced, 'PJW's wife Nancy to Technician, Steve and Melanie Kramer and Bill Marlin to Technician, Eli Marlin to Novice, KC6ZJX, Eric Havstad and KC6WTJ to Technician with code and 'WTJ's wife to Technician.

The **MINUTES** were approved as published in last month's *Short Skip*. m/s N6PTM/KD6HQ

The **TREASURERS REPORTS** for April and May were read and approved. m/s KB6PTA/W6NTZ. The General Fund was \$4523.80 and \$4968.16 respectively and the Repeater Fund was \$841.91 both months.

**PUBLIC SERVICE:** Don KD6HQ mentioned four upcoming events this month. We only need two more volunteers for one of them.

**EDUCATION:** John WB6FRZ's Novice class is done. At the Novice test session, 5 students all passed at least one element, in addition to two who passed at the VE session. Jeff KC6VS's General class ended Monday. Nine students finished the course, and all but one passed at least the written exam.

Tracy WB6TMY will teach the next Novice class.

The **VE EXAM SESSION** June 2 had 35 applicants, according to Steve WA8LLY. 25 walked out with a new license class and several others got element credit. The next session probably will be in September.

**ARRL:** Bill N6GHG mentioned that the

upcoming ARRL Pacific Div. Convention Oct 16-18 is right nearby in Concord, and the admission fee is only \$3. Emergency preparedness seminars will be featured.

SF Section Manager John Wallack W6TLK brought along a bundle of free ARRL handouts. John will present next month's program on ARRL Headquarters.

Merl N6VUC asked the question: "Should we move the **MEETING TIME** from 7:30 to 7 PM?" On a show of hands, only 12 members indicated interest in the idea, so it was tabled.

**NET CONTROL STATION** will be Bill KA6JLP again, as there were no other volunteers.

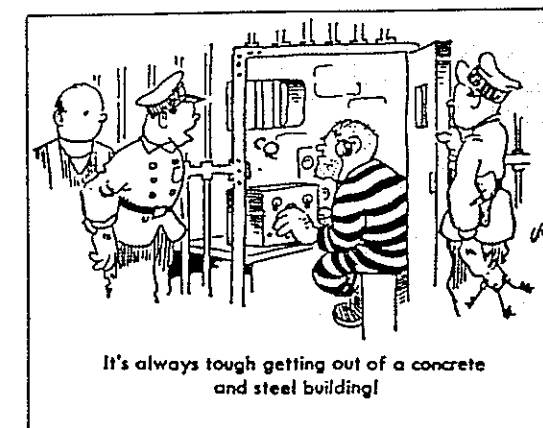
The **PROGRAM** was **FIELD DAY**. Lt. John Zantek WX3K outlined the rules for the Coast Guard base: Park only in striped parking spaces. Do not pass marching formations. No alcohol visible in vehicles. Setup starts 2 PM Friday. We have mini-mart/deli privileges. John also handed out vehicle passes.

N6VUC and N6PTM updated the group on FD preparations. Al N1AL then led a short practice session on how to operate and fill out the log and dupe sheets.

Bill KA6JLP mentioned that former member Don KB6LO will be operating a **SPECIAL EVENTS** station on Saturday and Sunday to commemorate US Route 66.

The **MEMBERSHIP LOTTERY** totalled \$9.40, according to Walt KC6RHB. Tracy WB6TMY would have won, had he been present.

Meeting adj. 9:24 PM. m/s KB6PTA/N6IYY  
Respectfully submitted, Sec. Al Bloom N1AL







## DX NEWS



**AFGHANISTAN.** OK1IAI/YA is often around 14015 kHz 0130 - 0230z. QSL via OK1IAI.

**ARGENTINA.** LU7DW/P on Martin Garcia Island, IOTA SA055, has been worked on 14215 kHz at 0000z. QSL callbook address.

**CHINA.** BT90SEU was worked on 14197 kHz at 1200z. QSL via BY4WNG. BZ5HAN was found on 14215 kHz at 1215z. QSL BY5HZ.

**HEARD ISLAND.** Jim VK9NS plans a 6-week multi-op DXpedition late 1992 or early 1993.

**IVORY COAST.** TU4SR has been active on 15 and 20 CW, usually 25 kHz up around 1500z. QSL to OH8SR.

**SEYCHELLES.** S79FI has been quite active on 15 and 20 CW usually about 25 kHz up around 0000z. QSL via HB9AFI.

**SOMALIA.** T53UN was worked on 14256 kHz at 0130z. QSL to Box 1642, Nicosia, Cyprus.

**VIET NAM.** XV7TH has been quite active on SSB. QSL via his home call, SM7TH. XV7VK has just gone QRT. QSLs go via OH2BU.

**WESTERN KIRIBATI.** T30AA should be on by now. QSL via his home call, VK2BCH.

**MAURITIUS.** 3B8CF is very active almost daily on 10104 or 7005 kHz 0230-0400z.

**MAURITANIA.** 5T5CJ continues to be active on the WARC bands. Check 24900 kHz around 1600z, 18086 kHz at 0800z and 10106 kHz at 0730z. QSL W4BAA (91/92 CB)

**ZAMBIA.** Stations recently active: 9J2BO on 14015 kHz at 1223z (QSL to W6ORD, Norm Friedman, POB 19055, Encino CA 91416-9055), 9J2FB on 21337 kHz 1820z (QSL Fred Brunce, Box 20133, Kitwe, Rep. of Zambia) and 9J2SZ 21296 kHz 1553z (QSL SP8DIP).

**GERMANY.** DXNL reports that prefixes of the ex-German Dem. Rep. will be converted to individual DL callsigns (DL1....9) with a three letter suffix by the end of 1992.

**REUNION.** FR/DF3EC/P is active on 18077 kHz around 0400 to 0430z and on 21025 or 14025 kHz around 1130 to 1430z.

**MONGOLIA.** Ray G3NOM will operate as /JT1 and /JT4 June 28 thru July 7th. Then Ray will be on the air from Kampuchea as XU1NOM starting July 29th. This operation could get cancelled due to the political situation.

**LEBANON.** Ed, SP1MHV, is now active signing OD5/SP1MHV. Ed has been active on 18130 kHz beginning about 1930z and on 14206 kHz around 0200z. QSL to his CBA.

**WESTERN SAHARA.** Yes, there is still activity here. S01A was active the weekend of 6/13 on 21265 kHz around 1500z. QSL via EA2JG.

**CORSICA.** Ann, DL8NBH, has been active as TK/DL8NBH mostly on CW. She hangs out on 21020 kHz, but has also been heard on 18074, 18135 and 10105 kHz. Operating time seems to be 1330 to 1700z.

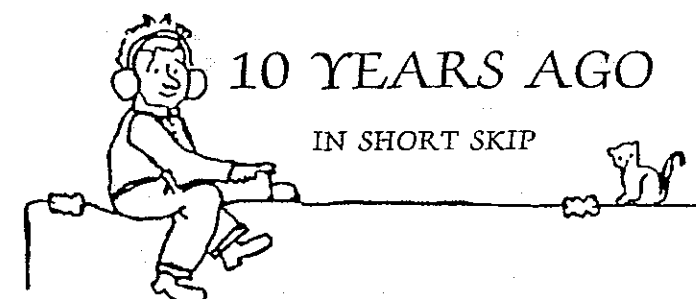
**MICRONESIA.** JQ3EEL will be active from September 4th thru the 13th. Until then, look for V63AO on the 14226 DX net around 1200z. QSL to I. Nishimura, P.O. Box 296, Pohnpei, Federal States of Micronesia, FM 96941. V63JC has also been active on 14197 kHz around 0530z.

**CHAGOS.** VQ9YA works RTTY on 20 meters around 1700z and 0000 to 0230z. Both VQ9AC and VQ9TW have been heard on 21313 kHz between 1830 to 2000z at different times. VQ9AC has also been active on 21035 kHz around 1630z (QSL via N8OW).

**EASTER ISLAND.** XQ0YAF has been quite active on CW. Check 28010 kHz starting around 1530z and as late as 2000z. Look on 21015 kHz around 0015z. QSL to Henry, Box 4, Easter Island, Chile.

**KAMPUCHEA.** Patrick who was signing F6IRF/4U, has now been assigned XU8CW. He is reportedly active every day on CW. Check 14032 kHz at 1345z, 18075 kHz at 1530z and 14235 kHz at 1400z. QSL via FD1GTR.

Thanks to OPDX/BARF80, the Northern Ohio ARS, Northern Ohio DX Assoc, Ohio/Penn Packet Cluster Network, K4CEF & Southeastern Cluster Group, ARRL, DXNL, DF4RD, WB3LHD, JH1FDP, VP2ML and the DXB for the above info.



The July 1982 issue of *Short Skip* mentioned that we have started getting interference from a new repeater on 146.73 in King City. Al N1AL had been spending many hours on the Mountain working on the repeater. Betty AG6C was the new repeater station trustee.

An article and a map described the Far West Repeater Association system of repeaters in the Humboldt County area.

The latest public service event was the "Ass to Ass" run with Chuck N6DDK, John WB6FRZ "and wife", Connie N6FYV, Rich KA6SSL, Warren WB6RHP, Bill WD6DXW, Hank W6DTV and Sarah N6FAX helpint out. Connie "made friends" with the local fuzz.

### Radio Shack

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MANAGER

WB6SRU

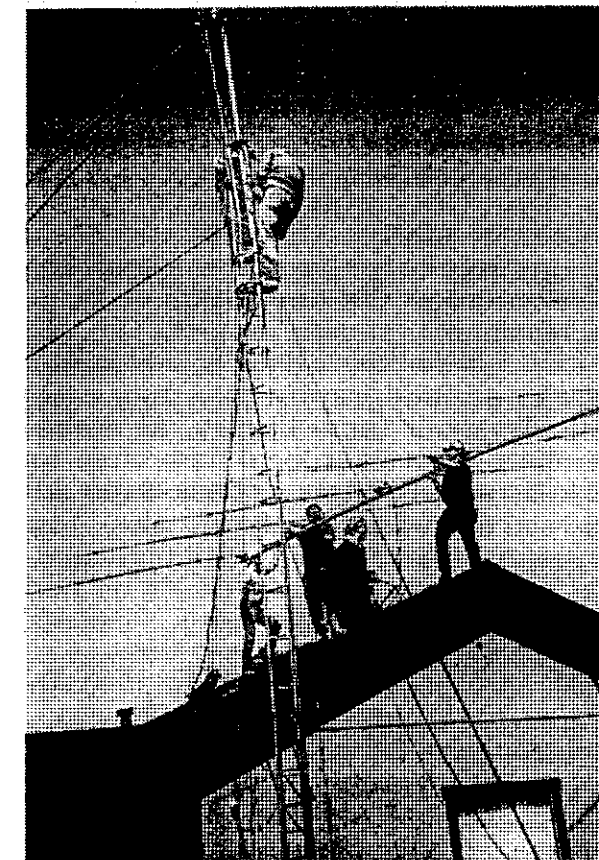
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TELEPHONE  
546-8423



## Antenna Party!

Here are some photos from the antenna-raising party at KD6HQ's QTH awhile back. In the top photo, John WB6FRZ and Al N1AL are on the tower, and on the roof are: (left-right) Jim Goodman, Don KD6HQ, Robert Walden, and Jack N6UYB. Not shown were Bobby Walden and Peter Treguboff.



Hit the rope, Jack!



# Hidden Antenna Bibliography

Posted to the Internet by Ed Hare KA1CV  
Senior ARRL Laboratory Engineer

In rec.radio.amateur.misc, Robert Carpenter wrote:

I REALLY pity the younger ham. Nearly every place they can (afford to) live essentially forbids HF, weak-signal VHF/UHF, and microwave work, by means of antenna restrictions. This leaves FM-repeaters, and packet as the about ONLY practical outlet for many hams, sigh... Should the League undertake/encourage a project to encourage the development of good residential "stealth" antennas?

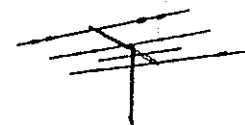
Here is a bibliography that may offer some help. Try your local library, or some of the members from your local ham club, for these back issues. Reprints of back-issue articles of QST are available from the Technical Department Secretary (small fee). She can be reached at our address, telephone number or by email at bdicosim@arri.org.

## ARRL Bibliography on Limited-Space Antennas

Long Antenna for a Short Lot (80M H&K)	
1960 March	p. 49 1 page
A Limited-Space Antenna (80 & 40 M)	
October	p. 23 3 pages
Retrievable Antennas (Flag. & Gnd-flr)	
1962 August	p. 34 2 pages
Invisible Antennas (Invisible Wire)	
1965 November	p. 87 2 pages
An Antenna for the Traveling Man	
1967 April	p. 20 2 pages
No Room for an Antenna? (75,20,10M) (H&K)	
May	p. 47 1 page
A Window-Sill Semivertical (80,40,20 M)	
June	p. 42 3 pages
Whip Antenna (TC)	
July	p. 51 1 page
Alternative Whip for Window-Sill Antenna (TC)	
July	p. 49 1 page
Indoor Dipole (10, 15, 20, 40 M) (TC)	
September	p. 45 1 page
Limited-Space Antennas & Methods of Coupling	
1969 February	p. 24 4 pages
Antennas for Travel Trailers & Campers	
March	p. 34 5 pages
1.6 Contacts per Square Foot of Real Estate	
1970 April	p. 56 2 pages

Short Antennas for the Lower Frequencies (Part 1-Loading & the Use of Traps)	
August	p. 5 5 pages
Short Antennas for the Lower Frequencies (Part II-Trap Construction & Adjustment)	
September	p. 2 2 pages
The Apartment Dwellers Dilemma	
1971 October	p. 34 3 pages
The Renter's Delight (Antenna Mount)	
1972 March	p. 30 3 pages
A Quick-Change Plug for the Apartment Dweller's Dilemma (H&K)	
December	p. 47 1 page
A Bite Size Beam	
1973 September	p. 11 4 pages
A Cliff Dwellers' Answer to the Antenna Dilemma (H&K)	
1974 March	p. 48 2 pages
Off-Center-Loaded Dipole Antennas	
September	p. 28 7 pages
Apartment Dwellers Slinky Jr. Antenna	
October	p. 22 2 pages
The Minooka Special	
December	p. 15 6 pages
Some Ideas on Antenna Couplers	
December	p. 48 5 pages
Apartment Dweller's Antenna (H&K)	
1975 January	p. 44 1 page
The City Slicker	
May	p. 15 4 pages
Another Cliff-Dweller Antenna (H&K)	
1976 March	p. 41 1 page
A Short Antenna for your Apartment-House Balcony	
1977 March	p. 42 1 page
The Inverted-L Antenna	
April	p. 32 3 pages
Efficient Short Radiators	
April	p. 37 3 pages
Continuously Loaded Helical (H&K)	
May	p. 49 1 page
Dual-Band Operation With A 33-Foot Vertical (H&K)	
June	p. 46 1 page
Optomizing Vertical Antenna Performance	
October	p. 15 3 pages
Small-Space 160 Meter Antenna (H&K)	
December	p. 45 1 page
Coil Improvement for Off-Center Loaded Antenna (H&K)	
1978 January	p. 40 1 page
An Inexpensive Antenna Tuner (H&K)	
February	p. 36 1 page
The Flagpole Deluxe	
March	p. 29 1 page
Short Ground-Radial Systems for Short Verticals	
April	p. 30 4 pages
Build This Novice Four-Band Vertical	
June	p. 16 3 pages

Antennas - Keeping Them Up	
August	p. 26 2 pages
Designing a Vertical Antenna	
September	p. 19 3 pages
On "Build This Novice Four-Band Vertical"(TC)	
October	p. 35 1 page
A 40-Meter Midget	
1979 February	p. 33 3 pages
A Big Signal from a Small Lot	
April	p. 33 3 pages
Better Results with Indoor Antennas	
October	p. 18 4 pages
The Shooter - A 3-Band Portable Antenna	
1980 September	p. 23 3 pages
A Traveling Ham's Trap Vertical	
October	p. 28 4 pages
A Deluxe RV 5-Band Antenna	
October	p. 38 3 pages
Antennas and Grounds for Apartments	
December	p. 40 3 pages
Antennas for Those Who Can't Have Antennas	
1981 February	p. 15 3 pages
Small, High Efficiency Loop Antennas	
1986 June	p. 33 4 pages
Hidden Antennas - One Ham's Solution	
1988 March	p. 33 1 page



## TREASURER'S REPORT

For month ending May 31, 1992

ACCOUNT	REVENUE	EXPENSE
Refreshments at meetings ..	17.45	21.00
Raffle at meetings .....	62.00	
Dues and Initiations .....	488.00	
Badges .....		96.26
Misc .....	73.00	168.36
Short Skip Newsletter .....	264.00	133.76
Amateur Radio Newslne .....		11.91
Officers' Expenses .....		34.80
	904.45	466.09

### ASSETS:

General Fund Account	4,907.62
Cash/checks on hand	60.54
Total General Fund	4,968.16
Total Repeater Fund	841.91

- de KK6XT

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