

# Sonoma County Radio Amateurs, Inc.

Club Station  
W6LFJ

P.O. Box 116  
Santa Rosa, CA 95402

Repeater Station  
WB6PVS



AUGUST 83, VOL. 8 # 8

## IN MEMORY OF BEN KA6SSM



SEBASTOPOL, CALIF. 95472

U. S. A.

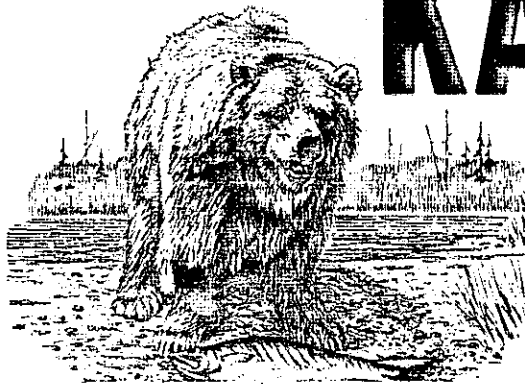


WAC

WAS

RCC

# KA6SSM



*Angelo [BEN] Bisordi*

277 MURPHY AVENUE



## PRESIDENT'S COLUMN

The "GIANT" SCRA Flea Market is coming up this September 17. A poster appears elsewhere in this issue. Feel free to post your copy at work or anywhere else that you think hams or electronics hobbyists would see it.

We had hoped to have a copy of the Dayton Amateur Radio Association's slide show on the Dayton hamvention in time for next meeting, but it looks like that fell through. In any case we sure will be talking about it and looking for volunteers. It should be a lot of fun, make the club a little money, and give everybody a chance to get rid of their junk (and then buy some more!)

### A Long NARCotic Meeting

On July 9, WA6RNF, our illustrious repeater chairman and yours truly attended both the board (bored?) meeting and general membership meeting of the Northern Amateur Relay Council, the repeater coordinating group for Northern Calif. Actually this session was more interesting than most with a number of controversial issues considered.

The board meeting covered administrative issues. NARC now has all coordinated repeaters entered on a commercial mainframe computer. Updated lists will be available as soon as the band coordinators have a chance to proofread them. They approved the 6M repeater band expansion (same basic plan as now, only extended down.) There was discussion of what to do about the "vacant" channel on 146.82 (Grizzly Peak freq.). They will write a letter to that group asking them to "defecate or vacate the sanitary fixture."

It was noted that FCC has gone on record as supporting sanctioned repeaters in any interference disputes. Finally they discussed the proposed 20 kHz split frequency plan. It was noted that ARRL supports 15 kHz east of the Continental Divide. Also a 9-page technical report from TASMA (So. Calif.) supports the technical feasibility of 15 kHz.

The General meeting focused all its time on the two meter problem. The 2M coordinator has 18 sanction requests pending right now for which no frequencies are available. A number of proposals have

## SILENT KEY

BEN BISORDI, KA6SSM, WAITED UNTIL NEAR RETIREMENT TIME TO RENEW HIS INTEREST IN AMATEUR RADIO.

AFTER COMPLETING HIS NOVICE EXAM AND RECEIVING HIS CALL LETTERS HE STARTED WITH SIMPLE DIPOLES ON THE NOVICE BANDS. SOON HIS CODE SPEED IMPROVED AND AWAY HE WENT ON THE ROAD TO WAS.

BEN SOON FOUND THAT PERHAPS THERE WAS SOMETHING BETTER IN ANTENNAS AVAILABLE. HE BUILT HIS OWN TOWER THAT WAS ABLE TO CRANK UP 35/40 FEET AND THEN INSTALLED A 6EL 3 BAND BEAM ON TOP. NOW THINGS REALLY PICKED UP. HE COMPLETED HIS WAS, WAC, AND WAS APPOINTED TO RCC, PLUS 38 CONFIRMED COUNTRIES.

IN JUNE BEN WANTED SOMETHING TO HELP HIS CHANCES ON 40 METERS, SO A TELREX HY-GAIN 2EL BEAM WAS ORDERED AND ARRIVED PLUS ENOUGH LUMBER TO EXTEND HIS TOWER TO 50 FEET. BEN NEVER GOT THE CHANCE TO COMPLETE THIS PROJECT.

BEN WAS 67, AND A NATIVE OF SEBASTOPOL. HE WORKED FOR 15 YEARS AT MARE ISLAND AND 22 YEARS WITH THE CITY OF SANTA ROSA. BEN IS SURVIVED BY HIS WIFE, DORTHY BISORDI, SEBASTOPOL, AND A SISTER, JEAN CLAUSEN, SEBASTOPOL, AND ONE NIECE.

PRIVATE ENTOMBMENT IS AT THE CHAPEL OF THE CHIMES.

AMATEUR RADIO HAS LOST A VALUABLE MEMBER AS BEN WAS AN ALL OUT AMATEUR. ONE TO BE PROVD TO KNOW AND CALL A FRIEND.

73 BEN FROM ALL OF US.

been put forward including using P/L, 20 kHz splits, moratorium on new sanctions, sanctions based on club size and pub. service activity, etc. The motions that passed were:

1. Retain 15 kHz splits as at present and require that all split channels should be "upside down" by Jan 1, 1984.
2. NARC reaffirms the current 2M bandplan including standard split channels (no repeaters on 1 MHz splits using simplex channels).
3. All P/L-access repeaters should have 100 Hz P/L access in addition to their current freq for emergency purposes.
4. Normal P/L freqs will be standardized by County.
5. NARC will announce that no 2M frequencies are available in the Bay area, S. Sacto. Valley and San Juaquin Vy. Any new sanction requests will be considered on a case-by-case basis and held until a frequency becomes available.

MINUTES OF THE JULY 1983 GENERAL MEETING  
(subject to approval at the August meeting)

The General Club meeting was held July 6, 1983 in the EOC of the County Administration Center and called to order at 7:30 pm by Al Bloom, N1AL. It was sadly noted that Ben, KA6SSM, was now a silent key. Minutes of the June meeting were read and approved.

The Treasurer's report was given by Bill, WD6DXW and approved. The ending balance for the General Fund for June was \$958.68.

Committee reports as follows:

**ACTIVITIES:** The club participated in providing communications for the "Tin-Man Marathon" held June 11 in Santa Rosa. Also, the club shared in supporting communications for the Kenwood marathon held on July 4.

**TRAILER:** Al, N1AL reported that the wiring and paneling are now done inside the trailer, including switch covers and other safety considerations. Also brand new insulation was installed. The trailer still needs molding and painting as well as 12 volt outlets.

**EDUCATION:** Spence WA6IXC reported 3 prospective Novices have sent in their written exams to the FCC and are now awaiting their call assignments.

**BADGES:** Nothing to report.

**PUBLIC SERVICE:** The Sebastopol Times printed a feature story on the club's Field Day activities, along with some fine photos.

**FIELD DAY:** Steve, KD6GC reported that the club's participation in Field Day cost the club a grand total of \$3; that's right, \$3. Steve, WA8LLY reported the following QSO totals, still pending duplicate counting:

	PHONE	CW		
80 M	121	61	VHF/UHF	37
40 M	159	138	Novice	7
20 M	32	299	Solar	12
15 M	222	88		
10 M	40			

Total Operators = 15

Total, including visitors = 45

**REPEATER:** Terry, WA6RNF and Al, N1AL presented to the club the offer from Fred Plante, W6LDU for his 2 M repeater, which is a completely solid state unit made by REPCO, a maker of commercial quality repeaters for both VHF and UHF. This unit is well documented and allows for easy connection of the CW identifier and AUTOPATCH. Included in the offer are a complete set of duplexers made by WACOM. All of the equipment is housed in small rack panel, which includes cooling fan.

As the details of the offer were made clear, a lively discussion followed. It concluded with a motion by Hank, W6DTV, that the club's Repeater Committee be authorized to purchase a permanent repeater for the club. This was seconded by Don, WA6ACX. The motion carried by unanimous vote.

Old Business:

Al, N1AL, reviewed the progress for the upcoming Swap Meet to be held September 17 at the Sebastopol Community Center. Publicity has been mailed out to all of the major magazines (QST, CQ, 73, World Radio) and others. If you want to help out, let any of the club officers or Al Schmidt, KD6NT know your desires.

New Business:

The California Department of Forestry will be holding a 4 week series of classes as part of their CDF training beginning Thursday, July 14 from 7-9 pm at the EOC. If you are interested in this Volunteers in Prevention (VIP) program, contact Darrel Mead at 576-2285. The business meeting adjourned at 9:05 pm.

--- Doug, WA8JRB Secretary.

W5YI REPORT.....RTTY ID RULES CHANGES

THE NEW RULES BECOME EFFECTIVE JUNE 15, 83 PERHAPS THE BIGGEST CHANGE CONCERN AMATEUR STATION ID WHEN USING RTTY DIGITAL CODES. THE NEW PART 97.84 STATION ID RULES HAVE BEEN AMENDED TO READ AS FOLLOWS:

"THE ID REQUIRED IN THIS SECTION SHALL BE GIVEN ON EACH FREQUENCY BEING UTILIZED FOR TRANSMISSION AND SHALL BE MADE IN ONE OF THE FOLLOWING MANNERS.

1. BY TELEGRAPHY USING THE INTERNATIONAL MORSE CODE. IF AN AUTOMATIC DEVICE SPEED SHALL BE 20 WPM.
2. BY TELEPHONE VOICE USING THE ENGLISH LANGUAGE. USE A RECOGNIZED PHONETIC ALPHABET AS AN AID FOR CORRECT TELEPHONE ID.
3. BY TELEGRAPHY USING ANY CODE AUTHORIZED BY PART 97.68, BAUDOT, ASCII, AMTOR. WHEN THE PARTICULAR CODE IS USED FOR TRANSMISSION OF ALL OR PART OF THE COMMUNICATION OR WHEN THE COMMUNICATION IS TRANSMITTED IN ANY DIGITAL CODE ON FREQUENCIES ABOVE 50 MHZ; OR
4. BY VIDEO USING READILY LEGIBLE CHARACTERS WHEN (FAST SCAN) A5 EMISSIONS ARE USED, THE MONOCHROME PORTIONS OF WHICH CONFORM, AT A MINIMUM TO THE MONOCHROME TRANSMISSION STANDARDS OF PART 73. (525 SCAN LINES, US STANDARD).

THE CW OR PLAIN LANGUAGE VOICE ID IS STILL REQUIRED FOR FACSIMILE AND SLOW SCAN TV TRANSMISSIONS. PART .69 WAS CHANGED TO ALLOW FREQUENCY SHIFTS IN THE HF RANGE WHEN USING A2, F1 OR F2 EMISSIONS NOT EXCEEDING 1000 HZ. A 900 HZ DIFFERENTIAL WAS PREVIOUSLY SPECIFIED. "ABOVE 50 MHZ, THE FREQUENCY SHIFT, IN HERTZ, SHALL NOT EXCEED THE SENDING SPEED, IN BAUD, OF THE TRANSMISSION, OR 1000 HZ, WHICHEVER IS GREATER," THE FCC WROTE IN THE JUNE 1ST ORDER. W5YI REPORT..2..OTHER CHANGES IN RULES.....

1. DELETING SECT. 97.32..WHICH PROHIBITS THE RENEWAL OF INTERIM PERMITS.
2. REVISION OF SECTS. 97.13(e) AND 97.13(d) TO CORRECT AN OMISSION IN ORDER THAT AMATEUR OPERATOR LICENSE RENEWAL APPLICANTS MAY SUBMIT A PHOTOCOPY OF THEIR LICENSE IN PLACE OF THE ORIGINAL.
3. ADDING NEW PARAGRAPH TO SECT. 97.81 WHICH ADD INTO THE RULES THE EXISTING REQUIREMENTS OF THE COMMUNICATIONS ACT THAT SPECIFY THAT THE COMMISSION HAS THE AUTHORITY TO INSPECT ALL RADIO INSTALLATIONS SUBJECT TO THE PROVISIONS OF ANY ACT, TREATY OR CONVENTION BINDING ON THE U.S..
4. ACTION BY THE COMMISSION BY ORDER-FCC 83-247, RELEASED JUNE 1,

83

REPORT AND ORDER ISSUED ON ELIMINATION OF LOGGING

1. SECT. 97.103 AND 97.105 HAVE BEEN DELETED AND REMOVED FROM PART 97. ALL ROUTINE LOGGING HAS BEEN ELIMINATED INCLUDING NOTATION OF THIRD PARTY TRAFFIC SENT AND RECEIVED.
  2. A NEW SECT. 97.92 HAS BEEN ADDED TO PART 97 AS FOLLOWS:
    - A. "WHEN DEEMED NECESSARY BY THE EIC OF A COMMISSION FIELD FACILITY TO ASSURE COMPLIANCE WITH THE RULES OF THIS PART, A STATION LICENSEE SHALL MAINTAIN A RECORD OF STATION OPERATIONS CONTAINING SUCH ITEMS OF INFORMATION AS THE EIC MAY REQUIRE...TO RESOLVE CONDITIONS OF INTERFERENCE OR DEFICIENT TECHNICAL OPERATION."
- REPEATER/ALUXILIARY/REMOTE-CONTROLLED AMATEUR STATION RECORDS NECESSARY.

1. REPEATER WITH GREATER THAN 100 WATTS EFFECTIVE REDIATED POWER BETWEEN 29.5 AND 420MHZ OR 400 WATTS BETWEEN 420 AND 1215 MHZ SHALL HAVE THE FOLLOWING INFORMATION INCLUDED IN THE STATION RECORDS:
  - A. LOCATION OF ANTENNA MARKED ON A TOPO MAP HAVING CONTOUR INTERVALS AND HAVING A SCALE OF 1:250,000.

W5Y1-Cont.

- B. ANTENNA HEIGHT ABOVE AVERAGE TERRAIN.
- C. EFFECTIVE RADIATED POWER IN THE HORIZONTAL PLANE FOR THE MAIN LOBE OF THE ANTENNA PATTERN, CALCULATED FOR MAX. POWER.
- D. THE MAX. POWER OUTPUT DURING OPERATION.
- E. LOSS IN THE TR LINE BETWEEN THE TR AND THE ANTENNA, INCLUDING DUPLEXERS, CAVITIES, CIRCULATORS, EXPRESSED IN DECIBELS.
- F. THE RELATIVE GAIN IN THE HORIZONTAL PLANE OF THE ANTENNA.

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BITS OF THIS AND THAT  
FIELD DAY

567 CW QSO...598 PHONE QSO...7 NOVICE QSO...1746 X 2 3492 TOTAL POINTS. THIS DOES NOT COUNT THE EXTRA BONUS POINTS GIVEN BY ARRL.

HANS BERG DJ6TJ OUR MEMBER FROM GERMANY WAS IN TOWN JULY 17 TO 22. A SMALL GROUP HAD BREAKFAST WITH HIM AT ELMERS IN SANTA ROSA.

THE MOBILEERS HAD A FINE OUTING ON THE RUSSIAN RIVER AT CASINI'S RANCH. SOME 25 TO 30 ATTENDED THE WEEKEND. THE SOUP POT WAS READY FRIDAY NIGHT FOR THE EARLY BIRDS. SATURDAY NIGHT LYLE MEEK N6BLN BBQ'ED CHICKEN AND WARREN WB6RHP FURNISHED ICE CREAM FOR THE FINE DUTCH OVEN PEACH COBLER. LYLE WAS PRESENTED HIS HEAD CHIEFS CAP AND APRON. IF INTERESTED IN JOINING ONE OF THESE TRIPS SEE OR CALL WA6ACX OUR LEADER. THE SATURDAY MORNING AND SUNDAY TOO, BREAKFASTS ARE OUT OF THIS WORLD.

SWAP SALE ETC.

TERRY 528-6412..DRAKE T4X..PWR. SUP...R4B REC...DC MOBILE SUP...160/10, PLUS THE 30 METER BAND WITH XEAL.

CHRIS 823-6463..YEASU 101S CALL EVENINGS..

JIM 544-7943..OKIDATA MICROLINE 80 DOT MATRIX PRINTER , PARALLEL INTERFACE, WORKS ON TRS80, APPLE, OTHERS...\$250.00.

HANK 823-7885...HIGAIN 40 METER 2. ELEMENT BEAM. NEW NEVER USED. \$196.00 AND THE BALUM \$20.00. THIS SAVES ABOUT \$40.00 SHIPPING.

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MURPHY'S LAW, ON THE CEILING OF MY DENTIST WHILE DRILLING WITH AN OVERSIZE BIT.

A MEETING IS AN EVENT AT WHICH THE MINUTES ARE KEPT AND THE HOURS ARE LOST .

IF YOU TELL A PERSON THERE ARE 300 BILLION STARS IN THE UNIVERCE HE WILL BELIEVE YOU. TELL HIM THE WORK BENCH TOP IS PAINTED AND WET, HE WILL HAVE TO TOUCH IT.

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1983

# Pacific Division Convention



RENO

AUG 19-21

## NEW EMISSION CLASSIFICATIONS

In the past the FCC used A1=CW, A2=mod. CW, A3=AM, A3J=SSB, etc. For more specific classifications they prefixed these by bandwidth (2.8A3J = 2.8 kHz SSB). They are now using the 1979 WARC classifications. A complete classification has 3 parts, (1) a 3-number-1-letter group, (2) a letter-number-letter group, and (3) a 2-letter group. The first grouping indicates the bandwidth. The second indicates the basic emission. The third gives added description of the emission. The basic group will be the most often seen.

(1) Bandwidth: Hz=H, kHz=K, MHz=M, GHz=G. The placement of these letters also signifies the decimal point. Some examples: 1H00 = 1 Hz; 25K5 = 25.5 kHz; 7M35 = 7.35 MHz; 10G3 = 10.3 GHz.

### (2) Basic emissions:

1st letter (Type of mod)	Number (Signal nature)	2nd letter (Info type)
N = No mod	0 = No mod	N = No info
A = Dbl SB + car	1 = Keyed car, digital	A = Teleg, aural
H = 1 SB + car	2 = Mod tone, digital	B = Teleg, automatic
J = SSSC	3 = Analog voice/music	C = Facsimile
B = 2 indep SBs	7 = Multi-chan digital	D = Telemetry data
C = Vestigial SB	8 = Multi-chan analog	E = Telephony
F = Freq mod	9 = Chan with analog	F = TV video
G = Phase mod	and digital	W = Combination of above
P = Pulse unmod		
K = Ampl mod pulse		
L = Width mod pulse		
M = Posn mod pulse		

Abbreviations: Car = carrier; Red = reduced;  
Chan = channel; Posn = position; Indep = independent; BC = broadcast.

### (3) Additional descriptions

1st letter	2nd letter
A = Code, diff duration elements	N = None
B = Code, same duration elements	A = 2-condition code
G = BC quality (monophonic)	F = Freq division mux
H = BC quality (stereo)	T = Time division mux
J = Commercial quality	W = Combination of F & T
K = Frequency inversion	
M = Monochrome	
N = Color	

Examples:

(1) Morse telegraph 25 wpm = 100H1A1AAN	A1A
(2) AM Morse, 1-kHz, tone mod = 2K10A2AAN	A2A
(3) AM telephony, voice = 6K00A3EJN	A3E
(4) AM telephony, SSB voice = 2K70J3EJN	J3E
(5) AM BC speech and music = 8K00A3EGN	A3E
(6) TV, video and sound = 6M25C3F-- 750KF3EGN	C3F-F3E
(7) FM teleg, 100 baud, 170 Hz shift FSK = 304HF1BBN	F1B
(8) FM voice, 3 kHz AF, 5 kHz deviation = 16K0F3EJN	F3E
(9) FM BC, 15 kHz AF, 75 kHz dev = 180KF3EGN	F3E
(10) FM stereo BC with telephony mux = 300KF8EHF	F8E
(11) Radar, unmod pulses, 3M00P0NAN	P0N

From Electronic Communication 5/Ed

de W6BNB

# AMATEUR RADIO FLEA MARKET

and Auction

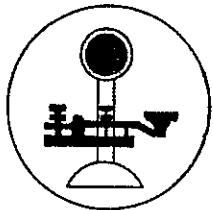
Saturday, Sept 17 9<sup>AM-3PM</sup> PM  
Sebastopol Community  
390 Morris St., Sebastopol

Indoor Flea Market spaces: \$3 (\$6 with table) at door  
Spaces/tables are \$2.50/\$5 in advance (Address below)  
Vendor set-up 8 AM. TALK-IN on 146.73

Radio Clinic, Refreshments, Door Prizes ...

## FREE ADMISSION !

From Santa Rosa take Hwy 12 W. First right after Laguna bridge on E side of town.  
For Tickets and Information, write:



*Sonoma County Radio Amateurs, Inc.*

P.O. Box 116  
Santa Rosa, CA 95402



de N1AL

FIRST CLASS MAIL

BOB OLSTEN  
MD6DPE  
3723 ARIZONA AVE  
SANTA ROSA CA 95405

SANTA ROSA, CA. 95402

P. O. BOX 116

SONOMA COUNTY RADIO AMATEURS, Inc.



E LAW

PRESIDENT AL BLOOM, NIAL 838-4524..V. PRES. SPENSER BARNES WA6IXC 526-1514..SECT. DOUG BENDER WAØ JRB 526-5131...BILL THOMAS WD6DXW 823-9429...TRAILER MGR. TOM BEVIL JR. N6IFQ 778-7226...ACTIVITIES AL SCHMIDT KD6NT 542-4793...RPTR. CHAIR. TERRY LA DUKE 528-6412 BOARD MEMBER DON OSBORN WA6ACX 829-0565...SHORT SKIP ED. HANK DAVIS 823-7885.W6DTV..... EXPLORER POST 599 MIKE TER BARKISSOFF N6DBZ 823-8977...BADGES DOUG BENDER...CLUB QSL... MGR. JIM TOMER W6CYM 838-9464..P.R. NEWS VAN GROSS W6GFY 544-3485.....

NOVICE CLASSES...IF YOU KNOW OF ANYONE THAT WISHES TO START A NOVICE CLASS CALL SPENSER WA6IXC AT 526-1514 AND GIVE HIM ALL THE INFORMATION.

FOR SALE...SB102...CW FILTER, PWR. SUP..REZLIGNED..WITH SPK,..\$250.00 PHONE W6CWR AT 540-1176 SANTA ROSA.