

Sonoma County Radio Amateurs, Inc.

Club Station W6LFJ

P.O. Box 116 Santa Rosa, CA 95402 Repeater Station WB6PVS



JUNE 83, VOL. 8 #6

OST OST OST

ORZ ORZ ALL AMATEURS ON FREQUENCY OF THE CHURCH OF THE ROTATING BEAM. THIS DAY IS THE HETRO-DYNING OF TWO SIGNALS. HISS CW, KAGZDB AND MR. SSB, N6DEZ.

MISS CW IS A FINE PATTERN AND SHOWING NO KEY CLICKS. MR. SSE PRESENTS A BEAUTIFUL TWO TONE SIGNAL ON THE SCOPE.

THESE TWO SIGNALS WISH TO HETRODYNE AND FORM A SINGLE INTERREDIATE PREQUENCY FOR EVER.

MISS CW AND MR. SSB YOU REALIZE THAT BY HETRODYNING AND FORMING A SINGLE SIGNAL YOU WILL BE EMITTED INTO THE UPPER HEAVISIDE LAYER FOREVER. WE DO......

NOW MR. SSE DO YOU TAKE MISS CH TO BE YOUR LAWFUL EMITTED SIGNAL, BLESSED BY THE FCC AND THE ARRL? QSL.....

NOW MISS CV DO YOU TAKE MR. SSB TO BE YOUR LAEFUL EMITTED SIGNAL, BLESSED BY THE FOC AND THE ARRLY OSL.....

BEFORE I PRONOUNCE YOU HUSEAND AND WIFE IS THERE ANYONE OBJECTING TO THIS NEW QUESTIF NOT FOREVER ORT. WITH NO EVEDENCE OF A FIRK TICKET OR SLIP FROM THE FCC OR AN OFFICAL CREEVERS RETORT FROM THE ARRL, AND BY THE AUTHORITY INVESTED IN ME BY THE FCC AND THE ARRL. I HEREBY PRONOUNCE YOU DULY LICENSED TO CALL OQ AND TO PRODUCE PUTURE HARMONICS FOREVER.

REV. HANK DAVIS MODITY

DEACON LYLE MEEK NORLN

DEAR FRIENDS

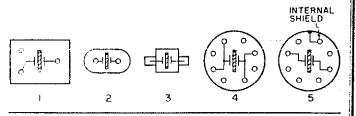
MIKE TER SARKISSOFF, NODEZ AND KAREN CHRISTENSEN, KA6ZDE JOINED HANDS IN MARRIAGE SAT-URDAY MAY, 14,1983. ALL OF US AS FELLOW AMATEURS WISH THEM ALL OF THE BEST IN THEIR LIFE TOGETHER. ED.

sus About -

PRESIDENT AL BLOOM NIAL 838 4524..V. PRES. SPENCER BARNES WAGIXC 526 1514 .SECT. DOUG BENDER WAGIRE 526 5131..TRES. BILL THOMAS WD5DXW 823 9429..TRAILER MGR. TOM BEVIL 778 7226... ACTIVITIES AL SCHMIDT KD5NT 542 4793..RFTR. CHAIR. TERRY LADUKE 526 6412..BOARD MEMBER DON OSEORNE WA6ACX 829 0565..SHORT SKIP ED. HANK DAVIS W6DTV 823 7885..EXFLORER FOST 599... MIKE TERSARKISSOFF N6DBZ 823 8977..BADGES-CLUB QSL JIM TOMER W6CYM 838 9464..P. R. MEWS... VAN GROSS N6GFY 544 3485..DX WATCH CHOD HARRIS VF2NL 526 2193...SCRA, INC. F. O. BOX 116 .. SANTA ROSA CA. 95402...

IDENTIFYING SURPLUS CRYSTALS

A T the present time, there are still a large number of surphis military crystals available. While frequencies are occasionally marked on these crystals, there is little other information given. The table was compiled to provide a reference for most crystals used by the military from 1940 to the present. Electrical characteristics and basing are provided.



Type (CR— / U)	Holder (HC/U)	Base	Freq. Range	Tal. (%)	Load Cap. (pF)	Over- ione ⁿ	Drive (mW)
15	5	1	80-200 kHz	.01	32	1	2
16	5	li	80-200 kHz	.01	15	1	2
18	6	2	8-1.6 MHz	.005	32	li	7
19	6	2	8-20 MHz	.005	7	li	7
23	6	2	10-70 MHz	.005	ь	3°	3
					1	5.1	"
24	10	3	15-50 MHz	.005	ħ	3"	2
25	6	2	200-500 kHz	.01	lı	5°	2
26	6	2	200-500 kHz	.002	Ъ	l ;	2
2.7	6	2	.8-15 MHz	.002	32	l i	3
28	6	2	.8-20 MHz	.002	b	l i	3
29	5	ī	80-200 kHz	.002	32	ĺ	2
30	5	1	80-200 kHz	.002	- 15	l i	2
32	6	2	10-75 MHz	.002	ь	31	1
				1		5:	'
33	6	2	10-25 MHz	.005	3	3	2.5
35	6	2	.8-20 MHz	.002	i)	ĭ	3
36	6	2	.8-15 MHz	.002	32	ļ	3
37	13	2	90-250 kHz	.02	20		2
38	13	2	16-100 kHz	.012	20	i	.1
śó	15	4	160-330 kHz	.003	b	1	.1
40	15	4	160-330 kHz	.003	b	1	1
47	13	2	90-250 kHz	.003	32	i	2
43	16	5	70-100 kHz	.01	45	i	2
44	6	2	15-20 MHz	.002	32	1	1
45	6	2	455 kHz	.02	b	1 1	2
46	6	2	200-500 kHz	.01	20		2
47	6	' 2	200-500 kHz	.002	20	1	2
48	6	7	.8-3 MHz	.0075	32	1	10
49	6	2	.8-3 MHz	.0075	32	1	10
50	13	2	16-100 kHz	.012	Į.	1	.1
51	6	2	10-61 MHz	.005	b	3	20
52	6	2	10-61 MHz	.005	h	3	3
53	6	2	50-87 MHz	.005	b	5	20
54	6	2	50-87 MHz	.005	h	5	2
55	6	2	17-61 MHz	.005	b	3	7

Notes: "An exertance of Conditioners a fundamental crystal. "Series resonant aperation, Clo 30 MHz: "15 70 MHz: Clo 75 MHz: To 52 MHz, "To 75 MHz. PRESIDENT'S COLUMN...

LOREN EGGLESTON WB6KDF LOANED TO THE GLUB A MOTOROLA SERIES A TWO METER UNIT. THIS WILL BE A TEMPORARY REPLACEMENT FOR THE PRESENT 73 MACHINE. THE LOANER NEEDS TO BE CHECKED OVER, TUNED AND MADE TO WORK AS A REPEATER, AS AT PRESENT IT IS A SIMPLEX UNIT.

THEN THE PRESENT UNIT VILL DE MOVED DOWN FROM THE VAULT AND COMPLETELY REPAIRED. A NEW 450 MNZ RECEIVER MUST BE INSTALLED AS THE OLD ONE DOES NOT WORK WELL ENOUGHT.

WHEN XTALS ARRIVE THE LOANER WILL BE TESTED, A TWO MINUTE TIMER WILL BE INSTALLED AND THE IDER CHANGED FROM THE OLD MACHINE OVER TO THE LOANER.

SHIELDING MUST BE ADDED TO THE NEW UNIT AS WHEN INSTALLED UP ON THE HILL WITH ALL THE RF FLOATING AROUND IN THE VAULT WIS IS A MUST. ALL CABLES WILL HAVE TO BE IN SIDE THE SHIELDING AND FILTERED ALSO.

THE CURRENT PLAN IS TO TRY OUT THE LOANER AT LOW LEVEL AND SEE THAT EVERYTHING IS ON BEFORE TAKING SAME UP TO THE VAULT. THE GOAL IS TO TRY AND HAVE EVERYTHING READY AND WORKING BY THE WEEKEND OF MAY 28-29 at the earlest or have everything ready when the repeater chairman returns from his vacation.

DO NOT FORGET ADOUT FIELD DAY IT IS NOT FAR AWAY. CALL STEVE SCHAEFFER.

HEARD OVER THE AIR THAT REGULATIONS FOR CABLE TV MAY BE RELACED. OF COURSE THIS HURTS ONLY THE RADIO AMATEUR. SO YOU CAN SEE HOW THINGS ARE GOING.

FOR THOSE THAT USE THE 88 MACHINE UP NORTH OF US IT IS BACK ON THE AIR AND WORK ING GOOD.

THE MONTGOMERY VILLAGE TRI-THRON IS STILL ON. 9AM TO 3PM. THIS IS A RUM, SWIM, BYKE. CALL OUR ACTIVITIES CHAIRMAN IF YOU CAN HELP.

ALL PRESENT ENJOYED THE POTLUCK PUTON BY THE YL MET. FIGTURES WERE VERY FINE. WE MEED MORE POT LUCKS TO KEEP AQUAINTED.

MINUTES OF THE MAY 1983 GENERAL MEETING (subject to approval at the June meeting)

The General Club meeting was held May 4, 1983 in the EOC of the County Administration Center and called to order at 7:45 pm by Al Bloom, NIAL. Minutes of the April meeting were read and approved.

The Treasurer's report was given by Bill, WD6DXW and approved. The ending balance for the General Fund for March was \$1324.90.

Committee reports as follows:

REPEATER: Terry, WAGRNF and Al, NIAL stated that they had just been up to the repeater site on Tuesday, May 3, and cleaned the high voltage relay contacts. They will be listening for further problems.

ACTIVITIES: Al, KD6NT reported that the March of Dimes Walk-a-Thon went well, despite the rain. Hank, W6DTV passed around an article that appeared in the Petaluma Argus Courier on April 29 giving the club credit for its communications support during the Walk-a-Thon. The Field Day Co-Chairmen were announced as Steve, WABLLY and Steve, KD6SC. See them if you want to participate. The club has also been asked to provide communications for the "Tin-Man Marathon" to be held in June 11 in Santa Rosa.

TRAILER: Hoppy, Sr., KAMUP has welded the tongue onto the trailer.

EDUCATION: Spence WA6IXC reported that the Novice Class is now 3 in number and all 3 have reached 5 wpm. The Form 610's have been sent in requesting the Novice Exams. Remember, the class is held each Friday at 7:30 pm in the EOC. Al KD6NT is conducting the theory and regulations, Spence is handling the code.

BADGES: I announced those that had arrived since the last meeting.

QSL: Jim, W6CYM recently received one card to QSL the Alcatraz Dxpedition (4 years ago).

PUBLIC SERVICE COORDINATOR: Van, WAGFY requested advance notice (2 weeks or more) of upcoming events so that he can make arrangements with reporters and TV people.

FIELD DAY: Steve, WABLLY requested that a list be passed out during the meeting of those interested in Field Day.

Old Business:

- 1. Al, NIAL, read that there is now a County Ordinance prohibiting smoking in County buildings. He also read the Pacific Division Director's letter, which stated that the ARRL has come out as totally opposed to any No-Code License.
- 2. A rather lively discussion over whether to purchase a new 2 meter repeater basically concluded that the Board of Directors should review the comments of the members. The main task for the Board is to assess the pro's and con's of such a major purchase vs. repairing the machine, whether the club's current status with the county will be altered, and whether the club will have any more control over the repeater if the club owns the machine. Also for consideration is configuring a portable 2 meter repeater for use when the main machine is out.
- 3. During the 2 meter repeater discussion, the issue of the 6 meter repeater was brought forward by Don, WA6ACX, who moved that the club sell it. This was seconded by Chuck, N6DDK. During the discussion that followed, it was generally felt that the club should try to sell the 6 M machine while we can still get some money out of it. The motion was approved unanimously. The Board will look into the means for selling it.

New Business:

- 1. The YL Net will be hosting a pot luck at 6:30 pm, May 13 at the Bellevue School on Primrose Ave. The program will be slides on a trip to Africa. Everyone is invited to attend.
- 2. Al, NIAL will be working on a new preamble for the Tuesday night Club Net (13/73 at 7:30 pm).
- 3. Zane, WB6SRU donated the prizes for the evening's raffle.

The business meeting adjourned at 9:15 pm. An excellent program on the Clipperton Island DXpedition, consisting of both slides and an audio tape done by one of the participants, was presented by Len, K6ANP. -..- Doug, WAGJRB Secretary.

Radio Shack

STORE No. 3855

ZANE BATES

510 FARMERS LANE SANTA ROSA, CA. 95405

TELEPHONE 546-8423 OH BLESS YOU LITTLE BOTTLE OF WHITING.
MANY ERRORS HAVE YOU COVERED. MANY
MORE BEFORE COMES WORD PROCESSING. OH:
THE STATE OF THE ART, OVERTYPE, DELETE,
REMOVAL OF, LINE, PARAGRAPH, WHOLE
PAGE, MEXT YE EDITOR, BLESS HIM.

YE OLD

Page #2

May 15, 1983

- (1.) Noting that VECs will be faced with significant expenses and that "...surely it was never the intent of Congress... that... volunteers should suffer unreimbursed out-of-pocket expenses in the course of volunteering their services" the ARRL "feels that the Commission must permit the VEC to charge a nominal mandatory fee to cover expenses of running the program. The fees cannot, however, be a money-making source of income for the VEC, but should be held to a minimum to cover actual expenses, such as postage, printing and necessary administrative costs. The League would require such a fee in order to participate in the program as a VEC."
- (2.) "...the League proposes that <u>prior public notice of examination session information...</u> be required" with deadlines for applicants to register in advance. Special provisions were suggested for examining handicapped applicants.
- (3.) Local examination teams or organizations should be permitted to underwrite the cost of printing extra examination booklets "to handle walk-in applicants who have not registered in advance." VEC to provide camera ready copies of all examinations.
- (4.) Ham examinations should be changed every month to maintain the security and integrity of the amateur testing program. Applicants who fail a test "must wait until the following calendar month before retesting." FCC should retain in the rules a clear statement of its perogative to recall any licensed operator for an FCC-administered test.
- (5.) Even though the FCC did not propose to make Novice exams part of the volunteer testing program, the League wanted this with both Morse code sending and receiving tests required and written test questions taken from an approved pool of questions.
- (6.) The current 10 question code test should be retained for Technician and higher class applicants. No sending test unless applicant previously unlicensed. Volunteer examiners can prepare their own code test or use one provided by the VEC. Code Test Credit Certificates (for those that pass the code but not the written test) should be permitted at the option of the VEC.
- (7.) The <u>three examiner rule should be waived</u> and a single examiner permitted <u>in extreme cases</u> where three accredited volunteer examiners are not available.
- (8.) The VEC and not the chief examiner (as proposed by the FCC) should be required to retain the completed test answer sheets. The applicant should be provided only with the percentage of questions answered correctly.
- (9.) A more liberal format for volunteer examiners was proposed by the ARRL with only those directly engaged in amateur radio related businesses and publishing being precluded from participation.
- (10.) The League asked that the Commission issue an "explicit statement of qualification standards or decision criteria" for appointment of VECs (national coordinators.) They suggested that a VEC should be a "national, not-for-profit entity, directly involved in the promotion of amateur radio activity." If this is adopted by the FCC, it is very doubtful that any organization except the ARRL, the QCWA and possibly the Society of Wireless Pioneers could qualify. So far, only the QCWA and the League has expressed an interest in being VECs.
- organization in a position to fulfill the VEC function" and that it was the "best suited." "This program, if enacted, will provide further opportunities for Amateur Radio operators to serve the public interest and invest themselves in the future well-being of the Amateur Radio Service." The ARRL asked that their suggested changes be adopted in a Report and Order.

The Board of Directors meeting was held at 7:45 pm, April 13, 1983 in the EOC and called to order by Al Bloom, N1AL.

- 1. Al, N1AL wondered whether we invite guest stations on the Tuesday night net to the club meeting--Spence will look into it.
- 2. Al sent in the club's response for the Volunteer Examiner Program.
- The trailer pink slip: transfer to SCRA was found to be valid as explained by Don, WAGACX.
- 4. Constitution and By-Laws are now re-typed. Hank will handle making the copies.
- 5. Al stated that we need more "Welcome to SCRA" letters to hand out to new members. (Note from me: I have not seen one, and did not get one when I became a member in May 1982.--5/8/83)
- 6. A proposal for the 2 meter repeater was drafted:
 - a. We need to investigate purchasing a commercial vs. amateur.
 - b. There must be a written agreement between SCRA and the County.
 - c. A consensus of the board agreed to purchase a new machine.
- Armed Forces Day—Al is waiting for a return phone call.
- 8. Mimeograph machine that is not being used: Hank, W6DTV proposed that a church organization in Sebastopol be allowed to use it in return for storing it for us. We will still have access to it, should we need it. Adjourned at 9:00 pm. ...- Doug, WA0JRB

SWAP ... WANT .. SALE ...

M6GYN..*#*-¢\$(\$..REGENCY HR2A AND FOWER SUP. 2MTR. FM.XTAL CONT...CIG. LIGHTER CORD AND SHALL ANT...\$125.00

w6LGO...707-762-2132...TEETRONIC SCOPE PARTS AVAILABLE. PHONE.

MOBILEERS ARE PLANNING A CAMPOUT AT CASIMMIS ON THE RUSSIAN RIVER JULY16VEER END. THE SONOMA COUNTY RADIO AMATEURS HAVE A SIX METER FM REPEATER FOR SALE. HAS A 6%) SIZE TURE IN FINAL, HEATSINK TYPE COOLING. IF INTERESTED WRITE TO SCRA P.O. BOX 116 SANTA ROSA, CA. 95402.

545-5900...4BTV VERTICAL 40/10 450.00...BRUCE BENSON

FLOYD SYMAN_--542-5174...VERTICAL ANTE NNA..AVT18..HIGH GAIN 80/10 \$50.00

MURPHY IN SACRAMENTO TOO!

LAST FALL, JACK PREGLEY, KASNEO, PROUD OF HIS CALL SIGN, AND DESIRENG TO BE EASILY INDENTIFIED IN COMMUNICATIONS EMERGENCIES, APPLIED FOR AMATEUR CALL-SIGN LICENSE PLATES. SOME TIME LATER, THE NEW ILATES WERE DELIVERED, BUT ON CAREFUL INSPECTION, JACK DISCOVERED THAT THE PLATES WERE FOR KASNEQ. IN HIGH DUDGEON, JACK RETURNED THE PLATES TO THE DWY, AND EXPLAINED IN SOME DETAIL THAT WHILE THE PLATES HE RECEIVED WERE BEAUTIFUL, THEY WERE NOT HIS CALL-SIGN. A NEW APPLICATION WAS CAREFULLY PREPARED WITH THE CLERK OF THE DWY AND CORRECTED TLATES ORDERED. PINALLY THIS SPRING THE CORRECTED FLATES ARRIVED, READING---YOU GESSED!! "KAGNEQ"!!-FURA.

TECPLES IMPRESSION OF A RADIO AMATEUR IS A PERSON WITH A HT LEATHER CASE CLIPPED TO HIS BELT THAT MAKES HIS COAT TALK...AT A RECENT NOOAD CONFERENCE ED.

+ + + Patolama

Radio amateurs help community as

EDITOR:

Communications for the 1983 March of Dimes WalkAmerica in Petaluma was furnished by 10 of the Sonoma County Radio Amateurs. This was accomplished by placing radio equipped mobile units at each of the checkpoints around the circuit. In this way complete control of the walk was possible.

Rain soaked many of the walkers so a minimum walk was held.

Members Art Hygopian W6LGQ, Walter Bruun N6OH, Bob Scolnick K6GEV, Tom Bevil Jr. N6IFQ, all from Petaluma, Hank Davis W6DVT and Sarah Davis N6FAX of Sebastopol, Ken Morton N6GXI and Georgia N6GZU from Santa Rosa, Warren Klinger WB6RHP of Jenner and Al Schmidt KD6NT of Santa Rosa, walk organizer, all took part.

The radio amateurs help many organizations throughout the county with communications.

Hank Davis
Secretary, SCRA
Sebastopol

KENS AND STUFF....

THE REDWOOT EMPIRE DX ASSN. PLANS AN OPEN SPAGHETTI DINNER JUNE THE 15TH.

1983. AT THIS TIME THE LOCATION IS NOT KNOWN BUT WILL BE IN PENGROVE OF MEAR BY.

ALL WELCOME. CALL MEDLN FOR RESERVATIONS AT \$5.00 PER.. A FINE SLIDE SHOW WILL

FOLLOW OF KINGMAN REEF, PALMYRA AND JOHNSON ISLAND. A FAMILY EVENING. LYLE'S

NUMBER IS 526-3233....

RON, WB6NER, 545-3813 HAS A MYE KEY FOR SALE FOR \$15.00, CALL EVERINGS.

MARCH OF DIMES...SANTA ROSA..AL HIAL WAS NOS, GREW VERE WAGACK, KFGFK, WOUCH. DUE TO RAIN WALK WAS OUT SHORT. HAVE NO IDEA AS TO MUMBERS THAT WALKED.

THE FACTS OF LIFE.....

THE STORY THAT FOLLOWS IS ABOUT FOUR PEOPLE NAMED EVERYBODY, SOME BODY.

ANYBODY. AND NOSODY. THERE WAS AN IMPORTANT JOE TO BE DONE AND EVERYBODY WAS ASKED TO DO IT. EVERYBODY WAS SURE THAT SOMEBODY WOULD DO IT, ANYBODY COULD HAVE DONE IT, BUT NOBODY DID IT. SOMEBODY GOT ANGRY ABOUT THAT BECAUSE IT WAS EVERYBODYS JOB. EVERYBODY THOUGHT ANYBODY COULD DO IT, BUT NOBODY REALIZED THAT EVERYBODY BLAMED SOMEBODY WHEN NOBODY ACCUSED ANYBODY. (FROM N6DSW)

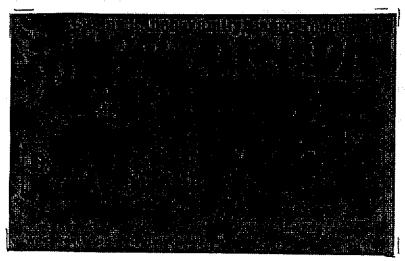
NOW HERE IS THE RUE. EVERYBODY COULD HELP WITH THE CLUBS TRAILER BUT NOBODY IS. THERE IS SOMETHING FOR EVERYBODY TO DO BUT AGAIN NOBODY VILL STEP FORWARD AND SAY SURE I WILL DO IT. LIKE THE SIX METER REPEATER MAYBE WE SHOULD HEAVE NO THE TRAILER??

FIELD DAY IS NEARLY UPON US AND AT THIS POINT THERE IS NO LOCATION AVAILABLE. IF YLOU WANT TO HELP IN ANY WAY PLEASE CALL STEVE SHARFFER AT 546-8860 AND TELL THIM NOW YOU CAN HELP.

AGAIN THE MOBILEERS ARE PLANNING ANOTHER OUTING AT CASINI RANCH DOWN THE RUSEAN RIVER ON JULY L¢ WEEK END WHY NOT GRAB YOUR SLEEPING BAG AND COME OUT. CALL THE WAGON MASTER DON OSBORNE, WAGACK ON TWO OR AT 829-0565 AND TALK IT OVER.

THE CLUB IS PLANNING A SWAPP MEET IN SEPTEMBER. THE PRESENT DATE IS THE 17TH.. IT WILL BE DISCUSSED AT THE NEXT BOARD MEETING. IF YOU ARE INTERESTED IN SOMETHING LIKE THIS LET SOMEONE ON THE BOARD KNOW. NEWS OF THIS MUST GO OUT SOON.

REALLY? DO YOU HAVE A KNOWLEDGABLE TRAINED ORGANIZATION FOR DISASTERS???



THIS IS THE PASS THAT WEERNF RECEIVED AT THE LAST MOBILEERS OUTING AT THE CASINI RANCH. POT LUCKS ARE A REGULAR PART OF THE WEEKEND OUTING. BRING YOUR OWN FOOD AND SILVER, ETC. AND JOIN THE BUNCH. MOST OF THE TIME IT DOES NOT COST TO COME IN ONLY FOR A VISIT OR DINNER. SEE DON THE WAGON MASTER HE KNOWS ALL.

WIND CHILL CHART Effect of wind on calm air temperature WIND VELOCITY

20mph

25mph

15mph

10mph

5mph

30mhp

35mph

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SOMOMA COUNTY RADIO AMATEURS, INC.

P. O. FOX 116

SANTA ROSA, CA. 95402

FIRST CLASS MAIL



FREEDOM UNDER THE I

BOB OLSTEN WD6DPE 3723 ARIZONA AVE SANTA ROSA CA 954Ø5