

Sonoma County Radio Amateurs, Inc.

Club Station W6LFJ

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



VOL. 8-4

Ched harris author of "DX Watch" has been very ill and is unable to produce his column this month. We all hope Ched gets well fast as he is a busy fellow.

With the World Map, (below), centered on San Francisco you can aim your beam in an appromax direction. Cut out and cement on a piece of wood. Make a plastic pointer with a center line and mount same with radius over SF. Rock your beam for best signal. Good Luck. Tnx. N6BLN



OFFICERS FOR S3		
President	Al Bloom	NI AL
	838-4524	
V. Pres.	Spenser Barnes	WA6IXC
	526-1514	
Sect.	Doug Bender	WAØJRB
	526-5131	
Tres.	Bill Thomas	WD6 DXW
	823-9429	
Trailer Mgr.	Gene Piety	KH6PP
	523-3081	
Activities	Al Schmidt	KD6NT
	542-4793	
Rptr. Chair.	Terry LaDuke	WAGRNE
-	528-6412	
Board Member		
At Large	Don Osborne	WAGACX
_	829-0565	
Club Call	W6LFJ	
Rptr. Call	WB6PVS	
Short Skip	Hank Davis	AQDLA
	823-7385	
	Sarah Davis	Nofax
	Chod Harris	VF2ML
Explorer Post		
599	Mike Ter Sarkissoff	NGDBZ
	823-3977	•
Club Badges	Jim Tomer	W6CYM
•	838-9464	•
Club QSL MGR.	Jim Tomer	
Public Relations	Van Gross	W6GFY
	544-3485	

Club Meetings 1st. Wed. each month EOC week following. Location announced at regular team on the spot, so you would be able to use meeting or by phone.

Pacific Dir. Bill Stevens-2074 Foxworthy Ave. San Jose, CA. 95124 W6ZM V. Dir. Jettie E. Hill 22410 Janice Ave Cupertino, CA. 95014 W6RFF SF Sect. SCM Bob Smith, Fort Bragg, CA. Phone 964-4831 SF Sect. EC Lyle Meek 526-3233 Sonoma Co. EC Hank Davis 823-7885

RACES--Radio Officer-Herb Sullivan 526-3307 Sonoma Co. Comm. Officer, Press Thomson, 527-2677 WB5PUE

ROSEVILLE SWAP 1 MAY 83-More Later

AUTO PATCH

The primary purpose of the Autopatch wil 1 be for emergencies, but members only may useit at other times as well.

PRESIDENTS COLUMN

The upcoming April meeting is "FCC NIGHT" There are two new Notices of Proposed Rulemaking (NPRM) out, and we would like to submit filings on each. Come to the meeting and vote on our draft comments.

The more controversal of the two NPRM's is the NO-CODE license proposal. The The complete text appears in the March QST, and is discussed in most of the other Amateur publications as well.

The other NPRM has generated a lot less publicity but could have even more Far-reaching effects on the Puture of Amateur Radio. This is the Volunteer examiner docket. It proposes to have all classes of Ham license (not just the Movice), be adminstered by fellow Amateurs through the mail. It generally follows the ARRL proposal, requiring 3 certified volunteer examiners at least one of whom must hold an extra class license. Also each examiner must hold a higher class license than the class the exam is for. Except Extra exams where all three examiners must be Extras.

The exam questions would be selected by FCC from lists submitted by ARRL or by individuals holding a higher class of license than the exam questions are for. ARRL (and possibly other National OrganizationsO, would act as "Volunteer Examiner Coordinators". VEC's would issue cert ificats to successful license applicants and would be the accrediting body for volunteer examiners.

One advantage of this system is that the County Operations Room. 7:30 PM Board Meetingsexams would be graded by the volunteer exemining your new privileges right away. Another possible advantage would be better security of the exam process. The questions would not be secret. but (we hope) there would be such a large pool of them that it would be practically impossible to pass the exam by memorization.

The April meeting is also "Amendment Nite". The texts of the 3 By-laws amendments we'll be voting on appear elsewhere in this issue.

Don't forget the HOMEBREW CONTEST. Bring along your latest project. A certivicate willbe issued to winner plus your name engraved on the Home Brew Contest Plaque. See you there...

AL NIAL

AUTOPATCH

There have been some questions about operation of the autopatch when it goes on the air. The plan is to require both a multi-digit touch tone code and a sub-audible tone to access the patch. The sub-audible frequency will be the same as on the 91 machine. A leading-one lockout will disable toll calls. Cont. left col.

OBSCENITY ISSUE STIRS UP AMATEUR RADIO COMMUNITY

The FCC Review Board's Decision that the First Amendment allows private 2-way operators to express themselves in just about any way they care to has sent shock waves through ham radio.

I received many comments and letters from readers questing how the FCC could posibly approve" 4-letter words". Bob Wheaton W5XM, of San Antonio, Texas, probably said it best...

"In effect, the FCC Review Board has unanimously stamped its seal of approval on the use by U.S. Amateurs of the words which Hildebrand freely admitted using. I am, asif not already angry enough, totally disillusioned by the fact that the FCC Review Board was unanimnous. ... Hildebrand's choice of words can hardly be improved upon if anyone is interested in what I personally think about the current Commission/Commissioners. Appropriate etion would be to seek to abolish the FCC; or at least compel weekly sanity tests and certification for its employees.."

ARRL PREZ. VIC CLARK, TO ADDRESS AMATEUR RADIO OPERATORS NATIONVIDE

On March 3rd. the Amateur Teleconference Radio Net took place. The Keynote speaker was Victor C. Clark, W4KFC-ARRL President, who will be speaking from the Clifton, Virginia home on "The Future of Amateur Radio". More than 50,000 hams are expected to be tuned in to this unique amateur radio VHF lash-up. The audience will be, by far, the largest to hear a presentation over live amateur radio.

The Amateur Teleconference Radio Net is the brain child of the Honeywell Amateur Radio Clubs of Minneapolis, MN, Billerica, MA, and Phoenix, Ariz. Amateur repeater groups call into "an end-point commercial telephone bridge"-a teleconference device which is provided by Lou Apple, KØIUQ, of Darome, Inc. The technique offers great hope for "real time" amateur radio education and information dissemination. The device used is called "The Darome connection" and allows repeater groups from all over the country (and the speaker) to be telephone interconnected with two-way capability allowing amateurs to be able to ask Vic Clark questions from a participating repeater. (Our Club is looking into this for possible use June 2,83)

FCC's PRIVATE RADIO BUREAU CHIEF REVIEWS UPCOMING AMATEUR RULEMAKING

In our last newsletter we published a short note to the effect that a ruling providing for more phone privileges on 20 meters was imminent. The report orginated from a conversation at the Tropical Hamaree-one which the FCC's Private Radio Bureau Chief, Jim McKinney, supposedly participated in. Nothing happened on this so I picked up the phone and called Jim to get the low down.

"The 20 meter phone suband expansion item is due to me for signature no later than March the 4th. It then has to go on minutes and the most likely date for Commission consideration is March 31st. The item is in the hands of staff.

10 year amateur radio licenses soon. "yes, that you will. The date on that is earlier I have already signed that item. That issue could make the FCC Commissioner agends on the 9th of March. If it dosen't make it on the 9th, it would definitely make it on the 31st.

Elimination of logging--"That item is not expected to be concluded until the FCC third quarter, April or June.

COTELESS HAM LICENSE "I don't expect No-Code to finish out before this year is out. FCC year runs out in September. No-Code will or may come up near the Holidays. COMMENT DATES ON FCC RULEMAKING

The "No-Code" Amateur Radio License-File comments by April 29-Replies by May 31st. Volunteer Testing in Amateur Service-File comments by April 8-Replies by May 9th. Implementation of WARC-79 Treaty-File comments by April 11-Replies by May 10.
900 MHz PRCS-Personal Radio Communication Service-File comments by April 29th.-Replies by May 31st. Send all comments to: The Secretary; FCC; Washington, DC. 20554. See last months Short Skip for letter format. ED.

ONCE AGAIN AROUND THE CIRCUIT ...

A successful "POT OUCK DINNER"---Around 40 members and family, and a wild rain storm, attended. Spence VAGIXC, got his wish of many desserts. Food was wonderful and plenty. Fun was had by all, just getting aquainted with those voices you knew on the air waes. Hope you can join the next one.

REMEMBER-the April meeting will be a full neeting and the new sked starts at 7:30 PM. FCC nite, Home brew, Voting on By-Laws, Field Day soon, and many other things.

APPLE BLOSSOM The Week End of April 9-10 in Sebastopol-The Sebastopol group will be working the Parade on Saturday the 9th. and the Apple Juice Run on Sunday the 10th.....

If you plan to visit Sacramento Swap, (Roseville Swap), it is programed for May 1st..

More later. Have not heard from sonoma gang on their swap and breakfast.

A new product out which is a plastic form of the teflon ribbon that is used on threads etc... This keeps away from rolled up or folded over tape., its number is PN80631--- You should be able to find it at some auto outlet, I hope...

MONEY REPORT	*****
Beg. Bal.	\$754.02
Ending Bal.	\$862.81
INCOME	* *
Dues	\$135.00
Coffse etc.	\$ 12.04
	\$147.04
EXPENSES	
SHORT SKIP	\$ 30.00
DONUTS	8.25
	38.25

RFI SCANNERS----If you have a scanner not too far from your 2 mtr. rig and you hear a pulse every 1/2 sec...You know where to look.....

FOR THOSE OF YOU GOING FOR THE EXTRA OR ADVANCED THIS CHART MAY BE OF HELP TO YOU.....

Shortcut to X_{L_i} X_{C_i} and f_r

By James P. McTernan

T HE small numbers, powers of ten, and mathematical manipulations involved in determining inductive reactance (X_L), capacitive reactance (X_C), and resonant frequency (f_r) can confuse the most avid learners and send the most able teacher into reactive depression. I developed this chart to save some time and help in the design of practice problems for reactive and resonant circuits.

While there are an infinite number of possible combinations, this table contains a selection of inductance (L) and capacitance (C) values in millihenries (mH) and microfarads (μ F) for solving X_L or X_C and f_r with relatively even results. Various problems can be designed with reactance, frequency, or inductance held constant.

To illustrate, the resonant frequency for a capacitor/coil combination of 2.12 \times 10⁻¹ H and 5.25 \times 10⁻⁸ F can be determined as follows:

James P. McTernan is an electricity/ electronics teacher, Whippany Park High School, Whippany, New Jersey.

000	- :	
L = 212 mH	C = .0525	L = 212 mH2
$C = .0525 \mu\text{F} + C$	μF > =	
		*
$f_{\Gamma} = \frac{1}{2\pi\sqrt{LC}} .$		٠.
=		
$6.28 \times \sqrt{2.12 \times 1}$	$0^{-1} \times 5.2$	25×10^{-8}
$=\frac{1}{6.629\times10^{-4}}$		
= 1508 Hz (1500 Hz).		
For the inductive reac		
$X_{L} = 2\pi fL = (6.28)($	tance:	in toik
$= 1998 \Omega (2000 \Omega)$	1300)(2.)	12 X 10)
For the capacitive read	riance:	
	rance.	
$X_{\mathbf{C}} = \frac{1}{2\pi f X_{\mathbf{C}}}$		
_ 1		
$6.28 \times 1500 \times 5.2$	5×10^{-8}	-
= $2021 \Omega (2000 \Omega)$.		
·		

Some rounding is necessary in working with numbers in unending decimals, but I tried to keep this to a minimum.

X _L or X _C	f _r		C
(Ω)	(Hz)	(mH)	(μF)
100	500	31.2	3.25
	1000	15.9	1.58
500	500	159	.63
	1000	79.6	.312
1000	500	312	.325
1000	1000	159	.158
1500	500	478	.212
	1000	239	.106
2000	1500	212	.0525
	2000	159	.039
2500	1500	265	.0421
	2000	199	.0314
3000	1500	317	.0354
	2000	239	.0264
3560	1500	371	.03
	2000	279	.0225
4000	3000	212	.0131
	5000	127	.008
4500	3000	239	.0117
	5000	143	.00707
5000	3000	265	.0106
	5000	159	.00635
7500	3000	398	.0071
	5000	239	.00425
10000	7000	228	.00225
	10000	159	.00159
15000	7000	341	.00151
	10000	239	.00106
20000	7000	455	.00114
	10000	318	.00079
25000	7000	568	.00091
	10000	398	.000636

BY-LAW CHANGES-----VOTING NEXT MEETING IN APRIL....

2. Now reads....The fiscal year shall begin March 1st. and end on the last day of February.

2a.Added -- The Dues Year shall run concurrent with the fiscal year.

- 4. Now reads---The regular meeting of this organization shall be held on the first Vednesday of each month at 8:00 PM unless otherwise specified by the Board and announced in the Club Newsletter.
- 4. Change---The regular meeting of this organization shall be held on the first Wednesday of each month at 7:30 PM unless otherwise specifiedby the Board and announced in the Club Newsletter.
 - 5. To be added to the end of By-Law 5.
- 5. The word income shall mean the net income of each fund concerned in the budjet at any time.

FORGOTTEN CHANGE ---

4a.. The Annual Xmas Party shall take place of the regular December meeting.

QST

re: Great Straights Dx-pedition
to: Liscensed amateurs interested in par

to:Liscensed amateurs interested in participating in or contributing to the Great Straights Dx-pedition.

The Great Straights refers to Straights of Gibraltar, that narrow entrance to the Mediterranean that lies between Spain and Morocco and separates the continents of Europe and Africa.

Along this water way and separated from each other

by only 15 to 60 miles, are 4 DXCC countries:

- 1) CNB (Morocco)
- 2) EA9 (Ceuta)
- 3) ZB2 (Rock of Gibraltar)
- 4) EA7 (Spanish mainland)

This operation will set up and operate on all four corners of the Great Straights. At least 15 participants are sought and it is hoped that the Dx-pedition will have enough support to be able to operate from all four corners of the Straights simultaneously.

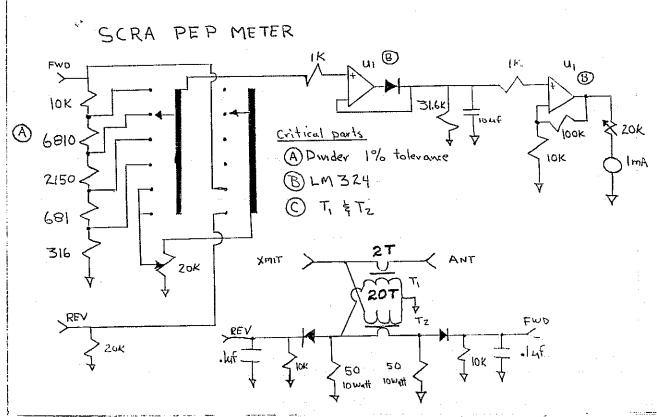
Liscenes for Spain (includes EA7) and Gibraltar are easily obtainable by American amateurs. Because of the difficulty in obtaining a Moroccan station liscense, my station liscense (CN8ED) will be used for the operation from Morocco.

The dates for this Dx-pedition are tentitive and depend on the optimal time indicated by interested participants.

Anyone wishing more information about the Great Straights Dx-pedition should write:

Rashid "Ray" Johnson N9BSD (CN8ED: ZB2GV: N9BSD/EA)

PO BOX 27643 TUCSON, AZ 85726



This is the drawing of the circuit of the PEP watt meter Al designed for the Club project. It is estimated that the major parts will cost aprox \$30.00 and in that way all meters will be identical. Al will say a word or two at the April meeting.

AGAIN AROUND THE CIRCUIT ...

Activities chair. is still looking for a good Mini DX site--Any member that has a good idea call Al. 542-4793

Novice Class starts Friday March 18th at the EOC Spencer WA6IXC and Al Schmidt KD6NT will teach the class. Pass the word.

If you have weekends free more or less Al the activities Chair is looking for help with the March of Dimes Walk--Call him 542-4793.

Art Godfrey, a former member of the Winchester Virginia Radio Club, (years ago), passed away and is now a silent key. Few people knew of him as an Amateur Radio Person. May he find good DX and many of his friends to Rag Chew with in the sky above.

Hans Berg DI6TJ will be back in the Santa Rosa area the last week of July. Hope we can have another breakfast with our friend.

His sked is as follows if you wish to work germany --

13.00 UTC 14.295 Sat., 16.00 UTC 21.075 Wed/Sat/Sun, 16.10 UTC 14.075 Wed/SAT/SUN, 16.30 UTC 2i.400 Wed/Sat/Sun, 17.00 UTC 21.370 Wed/Sat/Sun, 17.15 UTC 14.260 Wed/Sat/Sun-Try and work your Sister Club Area. Good Luck

INDUSTRIAL AND MILITARY RECEIVING TUBES CROSS INDEX

MilitaryCommerci	al- MilitaryComm	nercial	
407A2G51	61156sL7Gr	7023 3047F	
408A6AK5	61326UH6	706112AB5	75436AU6
55916AK5	61346AU7	71056AS7G	7581616G
56546AK5	6155604	71376J4	77176CY5
56566AK5	61366AU6	71676CY5	772414GT8
56702051	615765K7	72446J6	772812AT7
56916SL7GT	618068N7GT	72456 J 4	772912AS7
569265N7GT	61866AG5	72586AN8	773012AU7
56936SJ7	518912AU7	731612AU7	77316U8
57256A36	61976CL6	73206BQ 5	77326CB6
57266AL5	620112AT7	74086V6GT	773312BY7
57272D21	6202614		
57496BA6	62036x4		
57506BE6	62656BH6		
575112AX7	63366AS7G	Submitted by	•
581412AU7	63846AK6	denall W	94
58386x5GT	63852051	Wenau (U)	fello
58396x5GT	63862051	Donald W Li	
58526x5GT	63946AS7GT	Hood River	Oregon
58716V6Gr	64856AH6		
58816L6G	64966AS6	•	
59156BE6	65156AM5		
59302A3	65206AS7G	and the second s	
59315U4G	6626CA2		
59326L6G	66270B2		
5933807	66606BA6		
5992 6 V 6	66616BH6		
59936X4	66626BJ6		
60045Y3GT	66636AL5		
60056AQ5	66646AB4		
60286AK S	66696AC5		
60426SN7	66766CB6		
60456J6	66776CL6		
604625L6GT	66786U8		
605712AX7	667912AT7	•	
60586AL5	668012AU7		
60596BR 7	668112AX7		
606012AT7	682912AV7	•	•
60616BW6	68300A2		
60636X4	68410B2		
50646AM6	691312BH7		
60666AT6	69276 J 6		
606712AU7	69286AQ5		
607212AY7	69686 <u>AK</u> 5		
6073CA2	69736CZ7		
6074OB2	702512AX7		ı
60806AS7G	70366BE6		
60826AS7G	705412BY7		
6002-4-0E37G	700412817		

7055---6AL5

7056---6CB6

7057---6BZ7

7059---6U8

7060---6AU8

7058---12AX7

6087---5Y3GT

6094---6AQ5

6097---6AL5

6099---6**J**6

6101---6J6

6106---5Y3GT

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ALK KYDIG' TMC"

LAST MINUTE ITEMS....

CALL VB6RHP at 632-5459-- For WESOO programmable 2 mtriverity each programmable 2 mtriverity

Foothill Collage swap meets for the summer??? (summer I mean) 8:00 am to 2:00 FM each time.

CALL SEYMOURV6FPL-996-5012... Has a work bench 2 by 4 feet on \$20.00....