

NORTH SHORE AMATEUR RADIO CLUB INC.

P.O. BOX #171, OSHAWA, ONT., L1H 7L1

PRESIDENT	RICHARD BUTTON	VE3RJB	725-7150
SECRETARY	ANDY KALNINS	VE3LCZ	668-0805
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PROGRAM DIRECTOR	PETER JOHNS	VE3HMZ	
VICE PRESIDENT	MARGARET JEFFERY	VE3RNN	725-1238
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SPECIAL EVENTS COORD.	RALPH DAY	VE3CRK	576-8738
GET WELL CARDS	COLIN BELL	VE3CEU	723-7842
2-METER NET CONTROL	ROY MILLER	VE3AAF	852-5447
LIST AND LABELS	PAUL DALE	VE3LHZ	434-6741
INSTRUCTION COORD.	RICK GIBSON	VE3ASH	434-2886
AUDITOR	HARRY WESTWOOD	VE3OG	683-5104
EDITOR	EDWIN H. TAYLOR	VE3FRH	985-3790

CLUB STATION.....	VE3NSR	
CLUB REPEATER.....	VE3OSII ..	147.72mc IN ... 147.12mc OUT
HARRY'S REPEATER.....	VE3NAA ..	440mc IN ... 443mc OUT

2-meter NET CONVENES EVERY THURSDAY AT 7:30 pm ON THE CLUB REPEATER, VE3OSII. AS PART OF THE NET, CODE PRACTICE IS PROVIDED BY BERNIE VE3ATI BEGINNING AT 8:30pm.

10-meter NET - A GROUP OF LOCAL HAMS MEET SUNDAY ON 28.200 mc USING CW FROM 9:00am TO 10:00am, THEN SWITCH TO SSB PHONE UNTIL EXHAUSTED OR HUNGRY.

CO-ORDINATORS

NONQUAN CANOE RACES	GLEN GOSLIN, VE3LIZ	725-1545
RIDE FOR THE HANDICAPPED	RAY ZAMBONELLI, VE3OUB	723-2467
	RALPH DAY, VE3CRK	576-8738
SANTA CLAUSE PARADE	RALPH DAY, VE3CRK	576-8738
FLEA MARKET	GORD McCUAIG, VE3NZS	683-4054
CLUB INVENTORY	DOUG BARNES, VE3WJR	(705) 357-2342
VE3CNE & FIELD DAY	GREG SCHATZMANN, VE3GJS	576-4655

Last meeting: Mike VE3DKW gave a very good presentation about antenna tuners. Next meeting; To follow up on the theme of last month's meeting, Peter has arranged for Farney LeGresley, VE3BHQ to give us a talk on antennas. This will prove to be a very interesting evening, so come on out, bring a friend too! Same time, same place. Monday, February 11th, 1991, 8:00 PM at the Green Room of the Arts Resource Centre, Center Street South, Oshawa. (behind city hall). Terry Sullivan, where are you? Terry's snoozeletter was returned. Does anyone know of Terry's new QTH?

Thanks to all the members who contributed this month. It sure makes my job a lot easier. Speaking of jobs, I sure have been around the country this month. Ottawa, Montreal, Newington Conn., Mineapolis Minnesota and I still got the old snoozeletter out on time! Next month I will be down in Fort Meyers soaking up some sun, so I may be a little late. CHARLIE, VE3EII has for sale, a Yaesu FT209RH 5 watts complete with charger, two antennas and manual. Best Offer! Charlie Phillips, VE3EII, Phone 416: 852-3506. (Uxbridge).

Below is a chart which I use to convert Hertz to cycles. You may find it helpful too! I keep it right next to my Celsius to Farenhight conversion chart.

Q	S	R	C	
G	U	I	O	T
A	O	R	A	D
D	I	P	O	L
E	O	U	N	I
G	A	I	N	S
I	W	G	R	H
N	I	W	A	A
V	E	R	O	T
V	H	F	B	E
I	A	A	Y	A
R	E	F	L	E
L	U	C	C	L
F	A	D	I	N
H	F	E	S	

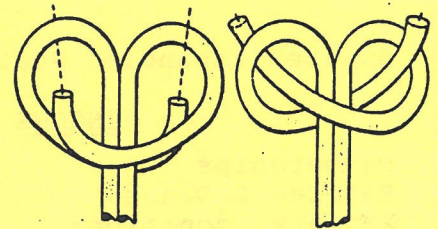
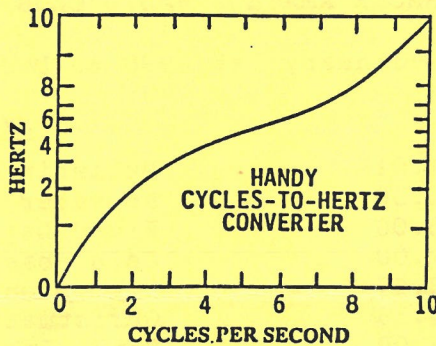


Fig. 5. The U.L. knot, named for Underwriters' Laboratories, has an interesting characteristic. The harder you pull on the line cord, the tighter the knot becomes. Therefore, it makes an excellent strain relief.

LAST CALL FOR RENEWAL !!!!!

- Full membership** - \$15.00 - Includes full voting privileges and monthly news letter for one calendar year. (Jan. to Dec., July&Aug excl.)
- ASSOC. MEMBER** - \$10.00 - News Letter only, welcome to any meetins attended.
- 2nd FAMILY MEMBER** - \$ 5.00 - Full voting privileges but no news letter.

TO JOIN SEND CHEQUE OR MONEY ORDER TO THE REGISTRAR AT HIS HOME:
298 Dover Street, Oshawa, Ontario, L1G 6G6. (preferably) or.....
N.S.A.R.C., Box 171, Oshawa, Ontario, L1H 7L1

PHONE NUMBER

NAME: CALL:

QTH: ZIP:

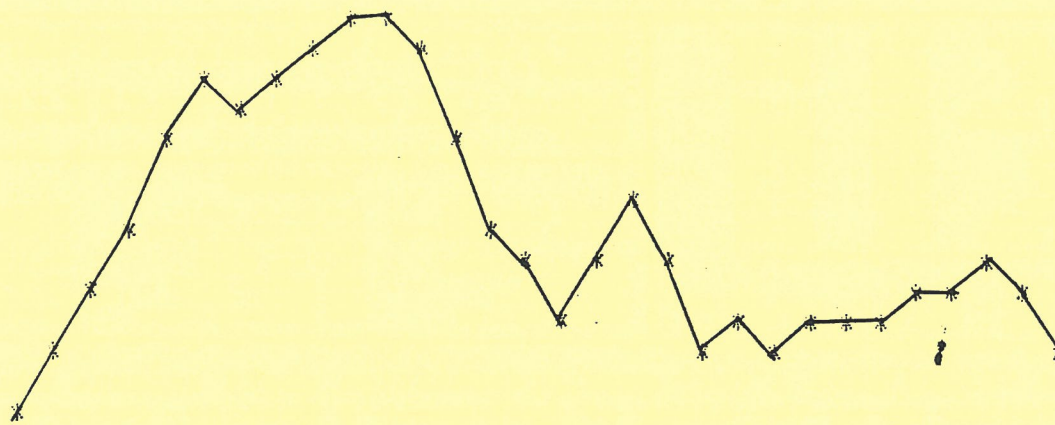
MEMBERSHIP CLASSIFICATION: FEE ENCLOSED:

DONATIONS FOR REPEATER FUND (if you desire) AMOUNT:

240
-
250
-
240
-
230
-
220
-
210
-
200
-
190
-
180
-
170
-
160
-
150
-
140
-
130
-
120

SOLAR FLUX CHART

by VE3LNX



176	239	192
182	236	184
193	221	191
203	204	189
218	198	190
228	191	192
226	200	197
230	208	193
235	198	200
239	186	176
		184

260
-
250
-
240
-
230
-
220
-
210
-
200
-
190
-
180
-
170
-
160
-
150
-
140
-
130
-
120

AVERAGE SOLAR FLUX NUMBER FOR THE MONTH OF DECEMBER IS 203.8
DE/VE3LNX

NORTH SHORE AMATEUR RADIO CLUB INC.

Audited Financial Statement - January 1st 1990 to December 31st 1990.

INCOME

Memberships	\$1721.01
Raffles & Draws	\$ 70.50
Repeater donations	\$ 125.00
Coffee Sales & Crests	\$ 27.00
Misc. Interest etc.	\$ 588.57
Flea Market	\$3240.36
I.A.T.V.	\$ 8.00
TOTAL	\$5780.44

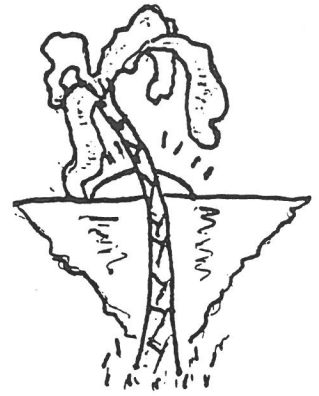
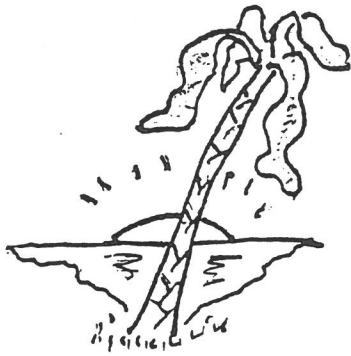
EXPENSE

Bulletin	\$1117.73
Repeater operation	\$ 863.93
Field Day	\$ 133.84
Corn Roast	\$ 240.26
Sermon on the Mount	\$ 96.42
Christmas Party	\$ 151.01
Rent, Insurance, etc.	\$1152.53
Flea Market	\$ 436.05
I.A.T.V.	\$ 108.00
TOTAL	\$4299.77

Cash on hand and in bank, Jan. 1/90.	\$ 5360.52
Total income to Dec. 31/90.	\$ 5780.44
	\$11140.96
Total expenses to Dec. 31/90.	\$ 4299.77
	\$ 6841.19
Add outstanding cheque #101	\$ 521.34
	\$ 7362.53



BANNED COUNTRIES LIST - Jan. 18/91: Iraq, Saudia Arabia, Ethiopia, Ghana, Burma, Angola, Thailand, Zaire, Suriname



So far, this winter season has been very interesting what with Bill VE3FOF here for the winter. We have had several contacts with the fellows in Ontario, Medina New York and Ray 3OUB (EX1ENE) when he was able to join us from Mexico. We have have a weekly net that is on every monday and have a very good turnout with Russ 3ATT, 3LLZ and others.

The conditions are good at this time of year and QRM is not too bad. Don Amis WA2ACN is generally there and the odd time we have a chat with Dave, KA6RLP. It has been a good winter so far with many weekly contacts.

On tuesdays I have skeds with Glen 3AEQ, Ron 3AIY and 3AGF George. Sometimes Ray 3OUB checks in from Mexico. As far as other activities, DX has been good but that is not my cup of tea.

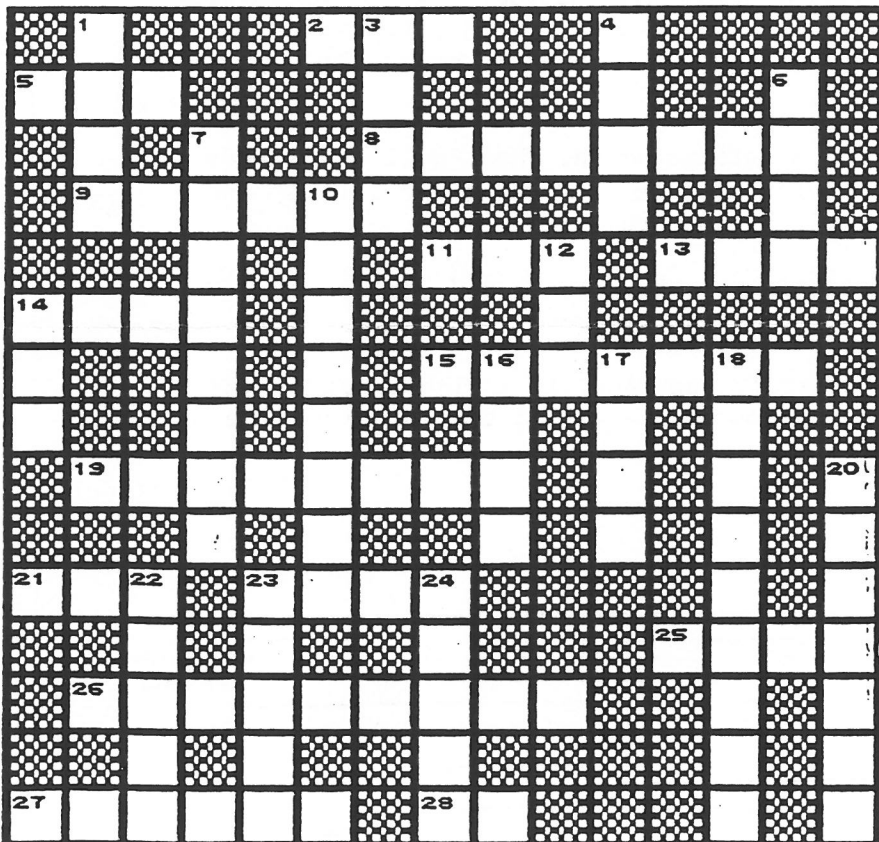
Another fun thing was the visit of Bob 3LLZ to see Bill Baker. I was able to get down there to also have a good visit with Bob. We had a very interesting contact from Bill's QTH with WA2ACN. My wife Ann had a cake for Bob's birthday and Norma provided the other fancies. So a good time was had by all.

There are several other VE3s down this way and we hear them on other frequencies in the area

Well I have blown my whistle and say cheerio for now and good hunting. Enjoy the club paper.

Your Southern Correspondent,
Dick Richards, KA2KNZ.

Antenna Mania



Across Clues

- 2. Standing-wave ratio
- 5. Type of holding wire
- 8. Main element
- 9. Half-wave antenna
- 11. One direction antenna
- 13. Type of antenna (Z →)
- 14. Output versus input
- 15. Big gain wire antenna
- 19. Popular DX antenna
- 21. Two meter spectrum
- 23. Multi-element horz. antenna
- 25. Type of beam
- 26. Back element of beam
- 27. Weakening signal
- 28. High frequency

Down Clues

- 1. A four-sided antenna
- 3. A simple antenna
- 4. Feedline
- 6. A small antenna element
- 7. A simple feedline
- 10. A long antenna
- 12. All direction radiator
- 14. Type of pole
- 16. Round antenna
- 17. Vertical holder
- 18. Property of antenna
- 20. Ground wires
- 22. Electric or magnetic
- 23. A matching device
- 24. Equal Impedances

Say You Saw It In CQ April 1984

Sleeve Balun for VHF

Ken Grant VE3FIT

This design is a variation of the traditional sleeve balun which has appeared for many years in the Amateur handbooks. Its purpose is to decouple a coax-fed balanced antenna such as a dipole, Yagi or quad from its feedline, thus preventing antenna currents from flowing down the feedline and upsetting the radiation pattern (not nice if the antenna is being used on a "fox-hunt"!).

The sleeve balun is actually a stub, shorted one quarter wavelength down from the antenna feedpoint (see diagram). Normally, the stub is made from a piece of copper pipe, separated from the coax feedline by an air dielectric. This is mechanically awkward and, of course, inflexible.

The design presented here uses a product called Panduit Spiral Wrap as the dielectric. It is made of clear polyethylene, the same material used as the dielectric of RG-58 coax cable and, as its name suggests, is used to spiral wrap wiring bundles.

The dielectric constant of polyethylene is .66 and thus the length of the sleeve (for a design frequency of 147 MHz) is:

$$300 \times 1 \times .66 = .337 \text{ Metres} = 13 \frac{1}{4} \text{ inches}$$

$$147 \quad 4$$

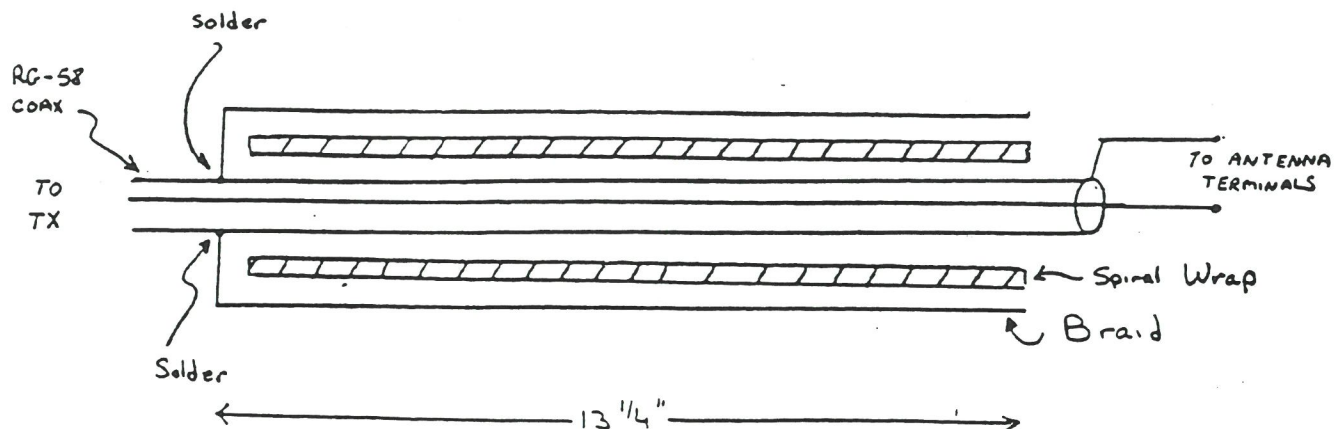
Construction is quite simple. Firstly remove about 20" of braid from a piece of RG-58. Slide this over the feedline which you wish to decouple. This will be used as the sleeve.

Prepare the cable ends with whatever cable terminations you require. From the point where the coax shield and centre conductor diverge, remove about 13 1/2" of the cable jacket. Use Spiral Wrap to completely cover the exposed shield (wind tightly).

Solder the sleeve to the feedline shield as shown. Then, pull the sleeve tightly over the Spiral Wrap dielectric. Trim it to a length of 13 1/4" and wrap with electrical tape. This completes construction.

Attach the feedline/sleeve combination to the antenna and you're in business.

This balun could be scaled for other frequencies. It is inexpensive, easy to build and eliminates the need for a cumbersome coiled transmission line "choke".



SPARC-GAP

ANTENNA LENGTH CHART BY K5KG

FREQUENCY (MHZ)	WAVELENGTH - FEET				WAVELENGTH - METERS			
	1/4	1/2	1/2+5%	FULL	1/4	1/2	1/2+5%	FULL
1.8	129.87	259.75	272.73	519.49	39.58	79.17	83.13	158.33
1.825	128.09	256.19	269.00	512.38	39.04	78.08	81.99	156.16
1.85	126.36	252.73	265.36	505.45	38.51	77.03	80.88	154.05
1.9	123.04	246.08	258.38	492.15	37.50	75.00	78.75	150.00
3.5	66.79	133.58	140.26	267.17	20.36	40.71	42.75	81.43
3.6	64.94	129.87	136.37	259.75	19.79	39.58	41.56	79.17
3.7	63.18	126.36	132.68	252.73	19.26	38.51	40.44	77.03
3.8	61.52	123.04	129.19	246.08	18.75	37.50	39.38	75.00
3.9	59.94	119.88	125.88	239.77	18.27	36.54	38.37	73.08
4	58.44	116.89	122.73	233.77	17.81	35.63	37.41	71.25
7	33.40	66.79	70.13	133.58	10.18	20.36	21.38	40.71
7.05	33.16	66.32	69.63	132.64	10.11	20.21	21.22	40.43
7.1	32.93	65.85	69.14	131.70	10.04	20.07	21.07	40.14
7.2	32.47	64.94	68.18	129.87	9.90	19.79	20.78	39.58
7.3	32.02	64.05	67.25	128.09	9.76	19.52	20.50	39.04
10	23.38	46.75	49.09	93.51	7.13	14.25	14.96	28.50
10.5	22.26	44.53	46.75	89.06	6.79	13.57	14.25	27.14
14	16.70	33.40	35.07	66.79	5.09	10.18	10.69	20.36
14.1	16.58	33.16	34.82	66.32	5.05	10.11	10.61	20.21
14.2	16.46	32.93	34.57	65.85	5.02	10.04	10.54	20.07
14.35	16.29	32.58	34.21	65.16	4.97	9.93	10.43	19.86
18	12.99	25.97	27.27	51.95	3.96	7.92	8.31	15.63
18.5	12.64	25.27	26.54	50.55	3.85	7.70	8.09	15.41
21	11.13	22.26	23.38	44.53	3.39	6.79	7.13	13.57
21.1	11.08	22.16	23.27	44.32	3.38	6.75	7.09	13.51
21.25	11.00	22.00	23.10	44.00	3.35	6.71	7.04	13.41
21.45	10.90	21.80	22.89	43.59	3.32	6.64	6.98	13.29
24.89	9.39	18.78	19.72	37.57	2.86	5.73	6.01	11.45
24.93	9.38	18.75	19.69	37.51	2.86	5.72	6.00	11.43
24.99	9.35	18.71	19.64	37.42	2.85	5.70	5.99	11.40
28	8.35	16.70	17.53	33.40	2.54	5.09	5.34	10.18
28.5	8.20	16.41	17.23	32.81	2.50	5.00	5.25	10.00
29	8.06	16.12	16.93	32.24	2.46	4.91	5.16	9.83

FORMULAS USED

1 METER = 3.21 FEET

LENGTH OF 1/2 WAVELENGTH ANTENNA (METERS) =

$$(300 * .95 * .5) / \text{FREQ(MHZ)} = 142.50 / \text{FREQ(MHZ)}$$

LENGTH OF 1/2 WAVELENGTH ANTENNA (FEET) =

$$(300 * .95 * .5 * 3.281\text{M/FT}) / \text{FREQ(MHZ)} = 467.54 / \text{FREQ(MHZ)}$$

NOTE: 1/2 WAVELENGTH + 5% IS USED FOR INVERTED VEE ANTENNAS

NORTH SHORE AMATEUR RADIO CLUB

EQUIPMENT AND AVAILABILITY FOR EMERGENCY SERVICE

EQUIPMENT	RF POWER	POWER SUPPLY		MODE			
VHF BASE		110AC	12DC BATTERY	SSB	CW	FM	PACKET
" MOBILE		110AC	12DC BATTERY	SSB	CW	FM	PACKET
" HT		110AC	12DC BATTERY	SSB	CW	FM	PACKET
UHF BASE		110AC	12DC BATTERY	SSB	CW	FM	PACKET
" MOBILE		110AC	12DC BATTERY	SSB	CW	FM	PACKET
" HT		110AC	12DC BATTERY	SSB	CW	FM	PACKET
HF BASE		110AC	12DC BATTERY	SSB	CW	FM	PACKET
" MOBILE		110AC	12DC BATTERY	SSB	CW	FM	PACKET

ANTENNAS

VHF	BEAM	WIRE ANT.	OTHER.....
UHF	BEAM	WIRE ANT.	OTHER.....
80M	BEAM	WIRE ANT.	OTHER.....
40M	BEAM	WIRE ANT.	OTHER.....
20M	BEAM	WIRE ANT.	OTHER.....
15M	BEAM	WIRE ANT.	OTHER.....
10M	BEAM	WIRE ANT.	OTHER.....

EMERGENCY POWER

BATTERY BANKS.....
 GENERATOR.....
 OTHER.....

EMERGENCY AVAILABILITY NEVER EVENINGS WEEKDAYS WEEKENDS
 ANYTIME

NAME: _____ CALL: _____
 ADDRESS: _____ PHONE: _____

Send completed form to: NSARC P.O. Box 171 Oshawa, Ont., L1H 7L1
 c/o Andy Kalnins, VE3LCZ