FEB. 1981

Feed Back

VE3OSR

146.34 - 146-94

GEORGIAN BAY AMATEUR VE3OSR RADIO CLUB

President: Harvey Smith, VE3FOT
Vice. Pres: Laverne Wyville VE3LPT
Sec.-Treas: Jack Avis, VE3DTS
Editor: Jim Harron, VE3BFV
Technical Director: Don Richards VE3IDS

Send Feedback correspondence to- Georgian Bay Amateur Radio Club
General Delivery, Owen Sound.

Feedback is a monthly publication of the Georgian Bay Amateur Radio Club.Most of the material published is contributed by the readers of FEEDBACK and all contributions are most welcome.Amateurs and short wave listeners are invited to join the club.Yearly fees are $7.50.Applications and membership fees can be mailed to the Secretary-TreasurerMr.Jack Avis,P.O.box 455 Wiarton,Ont.,NOH 2TO, or to the GEORGIAN BAY AMATEUR RADIO CLUB,General Delivery,Owen Sound. N4K 5N9.

ANNOUNCEMENTS

The next meeting of the GEORGIAN BAY AMATEUR RADIO CLUB will be on February 19th,1981 in the O.S.C.V.I.in Owen Sound,at 20.00 hrs.

MINUTES OF THE JANUARY MEETING

The meeting was called to order at 8 pm by President Harvey,Ve3FOT. There were 23 members present.

The minutes of the previous meeting were accepted as read.Ve3BIS,Dick requested information on a GBARC sign for automobiles.Walter Walls, Ve3IYW and Dick,Ve3BIS,were to get together on this matter.

There being no further business the meeting was turned over to Don Rowe,Ve3LZX,for his video tape made at Cable 12 Workshop.The preentation was excellent featuring Harvey,Ve3FOT,Fred,Ve3KPK,and Bill, Ve3EFX,on the subject of amateur radio.Following this ,Harvey,Ve3FOT, requested subject matter to be forwarded to the executive for future meetings.

Jim,Ve3CRV,noted there were some expenses for the previous year regarding the repeater,Ve3OSR.A new repeater with tone access for Owen Sound area is underway and some discussion took place about encoding,etc. The meeting dispersed about 10.30 pm.

The Editor regrets that there was not a January issue of FEEDBACK.

On Sat.Feb.7th,two snowmobile rallies were held in this area.The KIWANIS RALLY 100 of Owen Sound had 71 machines entered.Communications were by GBARC with Ve3CRV and Norm Biggar at base,Ve3LPT,Ve3AEO,Larry Coutch, Ve3HXX,Ve3DXO and Ve3BFV.

The Southampton Sno-Rally had 50 entries over a 100 mile course and raised $4000.00 for charitable purposes.Ve3's HIZ,ASH,KHQ,FCW,MAI,LCZ,IDS,EMQ,IDQ, DGP,KPT and Ve3BIS were the active amateurs.Communications were on 52 simplex using a ground plane antennae at 30 ft.at the club house.

To give away to a good home -Ve3MAI has a quantity of ½ pound tobacco cans.These make excellent containers to squirrel away electronic goodies.

Ted's Scrap Book

Many of us have pledged our equipment and our time to set up Communications in case of an emergency. Since an antenna that is used for this type of operating might be similar to one used ~~while~~ on a vacation while travelling, I submit the following for your consideration.

When planning our trip last year, I thought a vacation antenna should be..... inexpensive in case it is lost or damaged..... efficient because if you are about to lug a pile of gear around the country let's take something that works. It should be easy to erect and dismantle quickly ..... it should pack up easily and take up very little space ..... and it should be fairly directional.

The verticle type was discarded because I've never had much luck with them on 40 or 80 unless an extensive radial system is used. However, if you have the time and the space to carry one, they will do a good job.

A long wire was also discarded ..... camp sites are usually fairly small and I've always had trouble with these and Windoms producing lots of very hot R.F. in the shack.

A beam was passed over for obvious reasons but someday I hope to come up with a portable beam.

At this point I decided..... #1 to have an antenna that will work reasonably well under frightful conditions and in lousy locations, many times without a ground of any kind (I didn't have a ground once while travelling), has to be a dipole..... and # 2 take along a tuner. I took a tiny effort made by MJ and it was splendid. Some of you may poo hoo a tuner, but consider ~~for~~ a guy on the move each day, having to take any campsite that is available at nightfall and where the lay of the land will require that your antenna will be an inverted Vee one night but the next, it might mean a sloper or inverted L etc.. Your antennas will run through the bramble berry bushes, over wire fences, around steel poles and will be tied up to anything from a rusty old truck to the old outhouse. (In the later situation the "end" effect can be quite remarkable.)

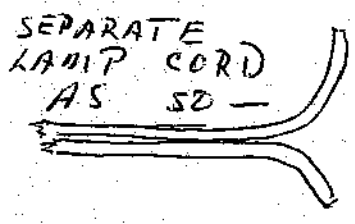
If possible include a mast in your gear. The mast need not be fancy mine is an old army effort that fits together in 3 ft. sections to a total of about 15 - 17 ft. A couple of pieces of aluminum pipe or 1" X 1" wood, fastened with hose clamps will be dandy. I fastened a piece of 2" pipe to the trailer crank using clamps and just place the mast into the pipe. The same thing can be done by driving a 3 ft. pipe into the ground. Sure, the antenna will work much better if it is 50 ft. off the ground, but you will be surprised how well this low ant works. If you think I'm nuts try loading an insulated wire streched along the ground ....it's no heck but I'll bet you work out of your back yard .... and then some!

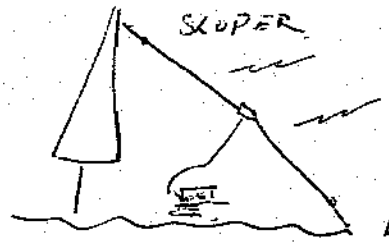
We left home with several antennas in the trunk ..... a dipole for 40 and 80 ....an old mobile whip (Webster bandspanner) ..... a regular all band trap and a bunch of squirrely wire that didn't really know just what it was supposed to be . The trap was never unpacked.....too heavy and clumsy .....try to anchor that thing if you are parked out in the middle of a bare field . The Webster was used one night in Winnipeg to work Fred 3KPK but it didn't work at all after that . The oddball wire effort was cut up to make a dipole for 20 and this was used to contact Fred for the rest of the trip ie. to Vancouver Island , then south to Frisco . We talked almost every night that we had hydro on our site and he can tell you better than I how the thing worked . I recall one night when we set up in Edmonton with the center of the antenna not 15 ft. off the ground and the ends off the ground only 3 ft. OFF GRND. in the shape of an inverted Vee and my signal was only 2 S units below a signal from a 4 element beam a mile away , from me . into Owen Sound

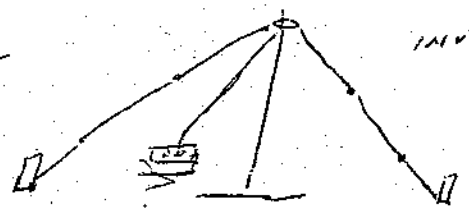
Several types of wire were tried and I settled on ordinary lamp cord that has been split into two pieces .... cheap....easy to work with ...easy to coil up and to store in a small space .... and insulated . Please note the insulation because children playing in a camping ground always seem to be attracted to things like this ..... and if the XYL brushed it while you were transmiting ..... Oh Man !! I thought that 7 stranded copper antenna wire , solid copper or steel would be too springy and heavy while monel metal fishing line too high in resistance and too difficult for people to see . On a trip like this rope is always being used for clothes lines, tying up parcels to mail home ..... and for holding up our trusty antenna, so I took lots of 3/16th nylon rope along . This was used as a halyard to raise the ant. up and down the mast ..... as mast guys when required ... as end insulators and guys for the ends of the ant , ... and even for antenna insulators themselves . The coax (RG 58 U) was soldered to the center insulator thereby eliminating one spot where corrosion might set in . My insulators are pieces of 1/2" square bakelite , but almost any old thing will do .....the above mentioned nylon rope — wooden dowels plastered with varnish or hard glue.... pieces of a plastic bottle or what have you . My whole antenna is on a 2" X 7" reel that held 2" video tape and this is always in the trunk of my car ready to go at any time . If anyone would like such a reel I'm sure Jim type BFV would supply for a reasonable sum .

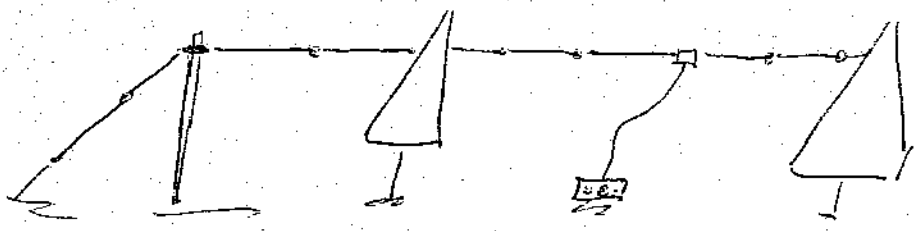
So , there you have it.... a cheap and easy antenna system ready and willing to go anywhere at any time—and one that will do a dandy job for you.

Have fun .....and have a care !







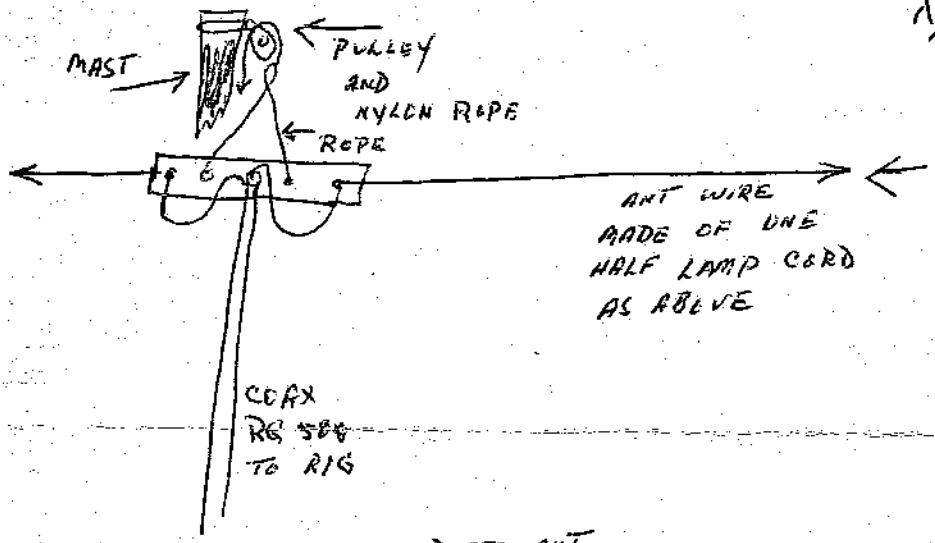


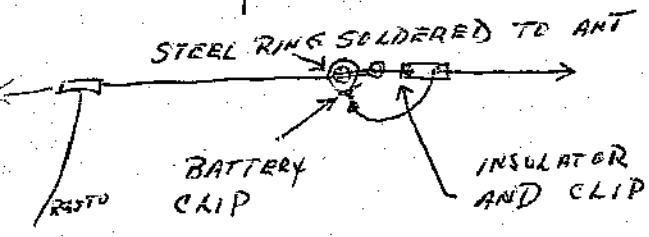
INVERTED L

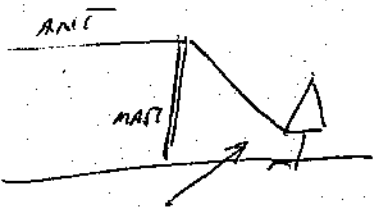
REGULAR DIPOLE

TO CALCULATE ANT. LENGTHS I'VE USED THIS FORMULA TO START — THEN CUT AND TRY

$$\lambda/2 = \frac{492}{f\ \text{MHz}}$$



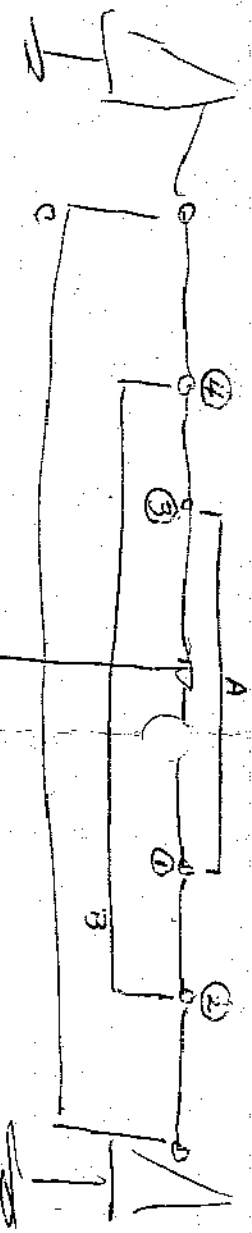




ANTENNA WILL FIRE IN DIRECTION BRAID (GROUNDED) END OF ANTENNA IS POINTING. (MORE OR LESS)!

OR ANCHOR TO
- A ROCK
- CHUNK OF FIREWOOD
- PAIL OF WATER

IF ANCHOR IS PORTABLE LIKE A PAIL OF WATER — YOU WILL BE ABLE TO CHANGE THE FIRING DIRECTION OF ANT. TO ANY POINT IN THE COMPASS.

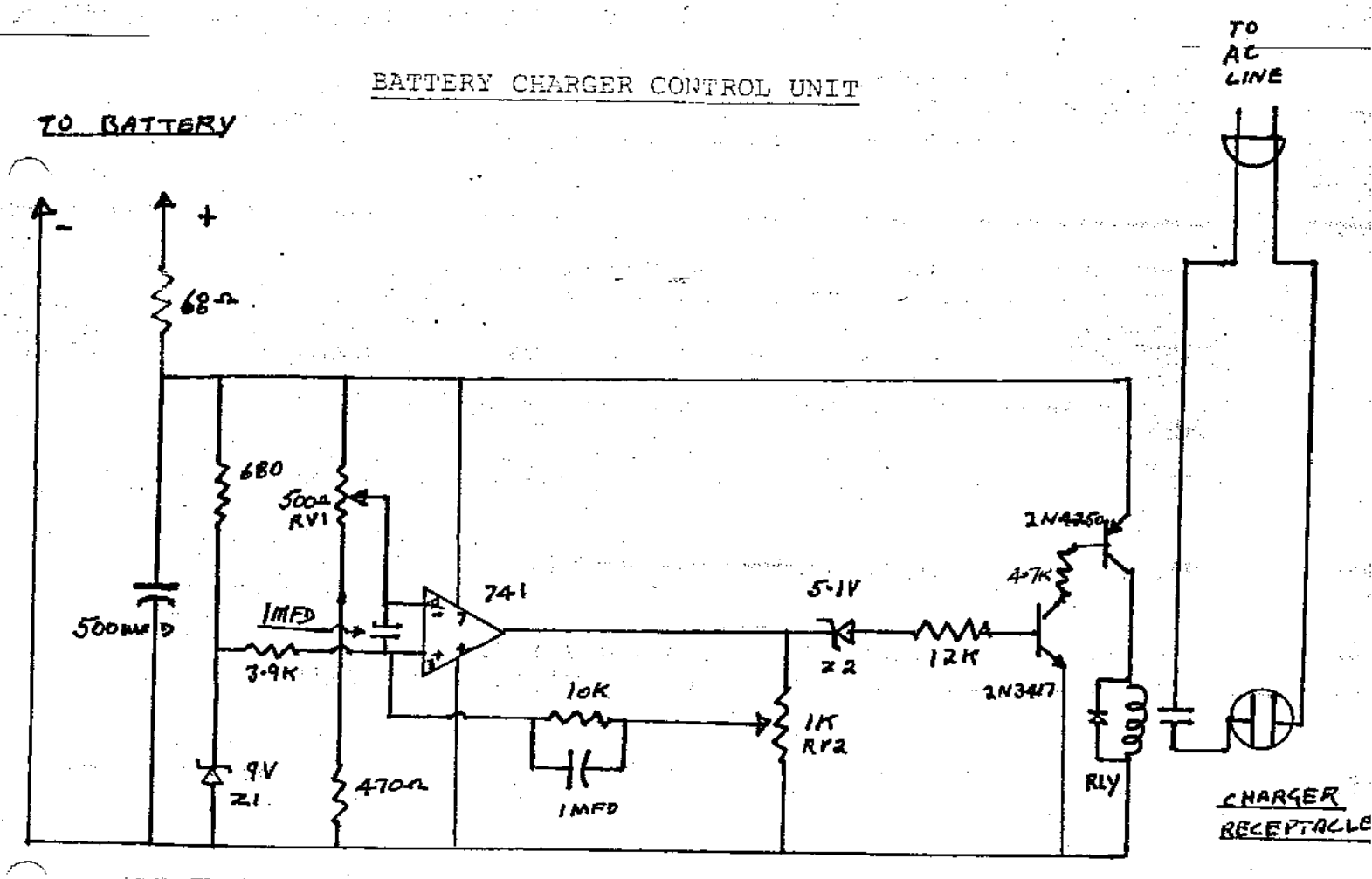


— FOR AD METER — NO CONNECTION AT 1-2-3 OR 4 USE ONLY ANT PORTION "A"

— FOR HD METERS — CONNECT BY BATTERY CLIP AT 1+3 AND USE PORTION B

— FOR 80 CONNECT BY BATTERY CLIPS AT 1 - 3 & 4 AND USE WHOLE ANTENNA.

BATTERY CHARGER CONTROL UNIT



INTRODUCTION

With the advent of Amateur Emergency Radio Service, it became necessary to ensure a good Battery Power Source. This Unit will exercise a rechargable battery as it should be. - i.e. ensure full charge & also allow it to discharge to a controlled depth.

The Unit is available as a separate Unit, just clip two leads to battery, plug unit into AC receptacle & plug your charger into Unit. As the saying goes, "set it and forget it".

CIRCUIT DESCRIPTION

The Circuit uses a 741 OP Amp as a comparitor, Z1 is a 9V Zener setting OP Amp non inverting input voltage, Potentiometer RYL sets the OP Amp signal input, RV2 sets positive feedback to provide latching, i.e. RV1 sets charge level, RV2 sets span, they interact & together set the battery upper & lower charged & discharged voltage levels.

As battery terminal voltage decreases, a point will be reached where U1 Terminal 3 will be more positive than Terminal 2. At this point the OP Amp output will go to high positive, & latch in by feed back via R4 & latch this condition in and cause battery charger to start.

CONTINUED ON PAGE 2 .

The charge will continue until potential at U1 term: 2 is higher than Term 3, at this time U1 output will fall to a low value & cause charger to turn off.

The unit functions well & has caused few troubles. One problem was RF would turn unit on when I operated with poor SWR & this was solved with RF decoupling capacitors. Another problem was due to battery voltage SA9. When load placed on it, this was solved by providing Brute Filter for unit supply voltage.

ADJUSTMENTS

Connect circuit to variable DC supply 10 - 15 volts. Plug a 100W Lamp into receptacle normally used as charger take off, vary the variable DC supply voltage & note levels at which the 100W Lamp turns on & off. Adjust RV1 for level & RV2 for Span. There is interaction between these two pots: adjust RV2 & note Span i.e. "Turn on Voltage" & "Turn off Voltage" levels, the difference should be about 3 volts. Set RV1 so that charge starts at 12 Volts & Stops & 15 Volts, or at your preference or required Levels.

OPERATION

When placing into operation for first time it is best to monitor battery specific gravity & terminal voltage. Adjustments may be required to ensure the battery is receiving it's "proper" charge. Once you have set it, you can leave it connected in the poised state & it will be good for the battery.

In cases where you want the battery fully charged for a special event & the control unit is in the waiting state, just plug your charger into the usual wall receptacle, but now you must monitor it's charge progress yourself.

For further information contact Dick VE3BIS.

GEORGIAN BAY AMATEUR RADIO CLUB MEMBERSHIP LIST FOR 1981

No.	Call	Name	Address	P.Code	Phone	CRRL	RSO	CARF	PATCH
1	Ve3AAF	Roy Miller	RR4 Uxbridge,Ont.	L0C 1K0	852-5447	x			
2	Ve3AEO	Ted Scarrow	308 12th St.W.Owen Sound,Ont.	N4K 3V4	376-9004				
3	Ve3AKC	Art Andrews	28 Day St.Galt-Cambridge,Ont.	N1S 3F9	621-7813	x	x		
4	Ve3AUB	Jack Barrett	10 Painted Post Drive,Scarborough.	M1M 1K9	438-0672	x	x		
5	Ve3BFV	Jim Harron	RR2 Kemble,Ont.	NOH 1S0	371-1209	x	x	x	x
6	Ve3BIS	Dick Shave	Box 351,Southampton,Ont.	NOH 2L0	797-2401		x	x	x
7	Ve3BSF	Verne Bohlender	Box 416,Chesley,Ont.	NOG 1L0	363-3027	x		x	x
8	Ve3CAC	Jerry Dantzer	308 Crawford St.Port Elgin,Ont.	NOH 2C0	832-9582	x		x	
9	Ve3CRV	Jim Vamplew	664 3rd Ave.E.Owen Sound,Ont.	N4K 2K1	376-4951	x	x	x	x
10	Ve3CTQ	Cam Thomas	Box 1583 Kincardine,Ont.	NOG 2T0	396-7083	x	x	x	
11	Ve3CXN	Rev.Hank Nuhn	176 7th Ave.E.Owen Sound,Ont.	N4K 2W7	376-4350	x	x	x	
12	Ve3DTS	Jack Avis	Box 455 Wiarton,Ont.	NOH 2T0	534-0151		x	x	
13	Ve3DXO	Dave Dixon	Box 265 Markdale,Ont.	NOC 1H0	986-3082	x	x		
14	Ve3EMQ	Jim Reid	RR1 Bognor,Ont.	NOH 1E0	371-0373		x		
15	Ve3EPC	Wesley White	RR3 Priceville,Ont.	NOC 1K0	924-2143				
16	Ve3FFN	Walter Stoyko	RR1 Proton Station,Ont.	NOC 1L0	923-5766	x	x		
17	Ve3FOT	Harvey Smith	650 4th St.A.Apt.125,Owen Sound.	N4K 1C1	371-2095		x		
18	Ve3FTW	Alex MacMillan	Box 211 Dundalk,Ont.	NOC 1R0			x		
19	Ve3GMR	Jim Chase	6655 Russel St.,Niagara Falls,Ont.	L2J 1P9	356-6535	x			
20	Ve3GVL	Ed Bilkey	RR3 Markdale,Ont.	NOC 1H0	986-2649	x	x		
21	Ve3HIP	Ian Trenholme	2929 AquataneAve.Meadowvale.Mississauga,Ont.						
22	Ve3HIZ	Jim McTaggart	Box 978,156 Huron St.,Southampton,O.	NOH 2L0	797-2255		x		
23	Ve3HP	Art Ferguson	Box 208 Tobermory,Ont.	NOH 2R0	2636	x	x	x	
24	Ve3HSE	Eric Hilbig	Box 191 Port Elgin,Ont.	NOH 2C0	832-2854	x	x		
25	Ve3HXV	Jerry Bradley	Box 40 Meaford,Ont.	NOH 1Y0	538-2654	x	x	x	
26	Ve3HXW	Ted Brown	Box 816 Owen Sound,Ont.	N4K 5W9	376-7621	x	x	x	
27	Ve3HXX	Ian Sutherland	RR5 Owen Sound,Ont.	N4K 5N7	376-7787	x	x		
28	Ve3IDQ	Keith Ferguson	Box 1318 Port Elgin,Ont.	NOH 2C0	832-5739				
29	Ve3IDS	Don Richards	Box 44 Hepworth,Ont.	NOH 1P0	~~534-2327~~ 422-1748		x		
30	Ve3INQ	Ivan Payne	Box 276 Station A,Weston,Ont.	M9N 3M7					
31	Ve3IHV	Bill Taves	1294 Dianne St.,Sudbury,Ont.	P3A 4H6					
32	Ve3IYW	Walter Walls	RR1 Dundalk,Ont.	NOC 1B0	923-5812			x	
33	Ve3KPK	Fred Kuznicki	Box 694 Owen Soumd,Ont.	N4K 5R4	376-5228	x	x	x	x
34	Ve3KPT	Jeff Marklevitz	Box 434 Chesley,Ont.	NOG 1L0	363-2523			x	
35	Ve3LCZ	Andy Kalnins	Box 1177 Port Elgin,Ont.	NOH 2C0	832-5868	x		x	
36	Ve3LEC	Harry Rosenburg	18 Gardiner Road,Toronto,Ont.	M5P 3B4					
37	Ve3LED	Kathy Ferguson	Box 1318 Port Elgin,Ont.	NOH 2C0	832-5739				
38	Ve3LPC	C.R.Webber	312 Scott St.,Walkerton,Ont.	NOG 2V0	881-0251	x	x	x	x
39	Ve3LPD	Laverne Wyville	Box 365 Meaford,Ont.	NOH 1Y0	538-1888			x	
40	Ve3LPG	Malford Holmes	Box 151 RR6 Markdale,Ont.	NOC 1H0	986-3163		x		

(continued)

GEORGIAN BAY AMATEUR RADIO CLUB MEMBERSHIP LIST FOR 1981

No.	Call	Name	Address	P.Code	Phone	CRRL	RSO	CARF	PATCH
41	Ve3LPK	Terry Kalnins	347 Waterloo St.,Port Elgin,Ont.	NOH 2C0	832-5868	x			
42	Ve3LPT	Moe Hurlbut	Leith,Ont.	NOH 1V0	376-8458	x	x	x	
43	Ve3LZX	Don Rowe	1304 4th Ave.E.Owen Sound,Ont.	N4K 2P7	376-0925	x			
44	Ve3MAI	Rahn McNally	660 Eugenie St.,Port Elgin,Ont.	NOH 2C0	832-2597	x			
45	Ve3WF	Fred Koepke	593 23rd St.W.Owen Sound,Ont.	N4K 4H1	376-6341				
46	SWL	Stan Guzanos	Box 11 Flesherton,Ont.	NOC 1L0	924-2473	x			
47	~~SWL~~ VE3MTI	Ernest Madlener	General Delivery,Kimberley,Ont.	NOC 1G0					
48	~~SWL~~ VE3MTA	Hart Ridderbusch	397 3rd St.,Hanover,Ont.	N4N 1B4		x			
49	Ve3OX	Mel Jones	4154 6th Court,Lantana,Florida	33462		x			
50	Ve3LPO	Dr.Roger Cosgrove	40 1st Ave.S.Chesley,Ont.	NOG 1L0	363-3312	x			

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VE3MTU DAN GREY - PORT ELGIN

VE3MTV NORM BIGGAR OWEN SOUND

VE3MTW LLOYD KING - KINCARDINE 862 PARK ST.

VE3MTM ART ROBERTS RR1 CLARKSBURG, ONT N0H 1J0