

# GEORGIAN BAY AMATEUR RADIO CLUB NEWS OCTOBER 1974

Editor Bill VE3EFX

Executive

President Jim Vamplew VE3CRV

Vice Pres. Dick Shave VE3BIS

Sec. Treas. Cy Weaver VE3DQA

The September meeting opened at 8:10 pm (yes, they are still having trouble getting there on time) 4th fifteen members present. The minutes were read and approved and the financial statement showed that the club has a total of \$101.79 in the coffers.

The club voted unanimously to provide communications for the GBMC rally to be held next April. There is a possibility that a new foot tower will be installed at the Bruce Coach Lines depot and this could provide us with an excellent antenna location for the base station to co-ordinate the mobiles taking part.

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Harvey, VE3FOT, asked the club to support the Flesherton Split Rail Festival, to be held on Sept.27, 28, & 29th. It was resolved to install an operational ham station on 2m and one to operate on the 80m and 20m bands also. There will be a five band trap dipole installed on a tower and Wes, VE3EPC, will be looking after the display of QSL cards etc.

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Classes in amateur radio for beginners will start on Sept. 24th so hopefully we will have a new crop of amateurs in this area next year.

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It was decided to give Jack, VE3DTS, the job of organizing net control stations for the Sunday morning net.

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VE3EFX will be on vacation in GM land this month so this issue may be thinner.

I am very pleased to print the following , submitted by Carl , VE6PR.

## HOW I GOT INTO HAM RADIO.

I first heard radio in 1922, and we got our first set in 1923, a 5 tube TRF using UV-201a tubes. It was fine to DX the BC band at first but the mysteries of the shortwaves hit the hardest, so I started building SW converters and then one or two tube receivers. Not knowing what my coils would tune and not really knowing what to expect kept me enthused for many years.

It was a full time job as all the parts had to be made except the tubes and the only power available till 1962 was batteries charged by a wind generator. The days were spent whittling out propellers and blacksmithing the head and the charger mechanism. While waiting for the wind to blow I was making storage batteries or vibrator supplies. These were mainly 6 volt input using hand wound transformers , points off a Model T Ford and a 71a rectifier tube.

Then the 2 volt tubes came out, it was Happy Days for me as I used these in a regenerative circuit with a 6 volt battery providing 2 volts for the filaments and the remaining 4 volts was the plate voltage.....no vibrator. I still have these old sets.

These vibrators were always "sticky" and "noisy" even when using phones. The neighbours would give me their old 'B,, batteries, I'd take them apart and put each cell in a brine solution and connected them in series all around the room but the voltage was never above 50 volts and after spending all day doing this, I could only listen a short time at night, enough to encourage me to carry on though, and I would perhaps work on some exotic antenna or ground system.

Seeing an ad. for an antenna that was supposed to do anything, I got all the dope on it and made one up. It consisted of over 100 strands 100 ft long. As the ground was always dry and hard I dug 10 ft down and buried an old car rad in salt and ran a pipe to the surface to keep it topped up with water.

One day I picked up a Ham transmission, (never did know the band ), and I've been at it ever since. One day a neighbour gave me a book with the morse code in it, so I soon memorized it and could send to myself but couldn't copy. I then made a punch and punched out the letters in paper , glued them to a round tin can and I had a code sender. Eventually I progressed till I could copy W1AW at 50 wpm.

How 52 years later I still enjoy CW more than any other mode. My great pleasures have been building, experimenting and making things work that didn't want to. I feel sorry for the beginner today who has classes, friends and code tapes handy then goes to town with a fistfull, of the filthy stuff, buys an appliance and plugs it in. Then if it doesn't work the dealer fixes it. My advice to beginners is to get an old TV set and build a rig from the parts. He'll learn a lot and get the thrill of making it work .  
73 es luck Carl..VE6PR

Harvey Smith, VE3FOT, expressed an interest in radio astronomy and would like to hear from anyone who is able to provide information and / or assistance pertaining to this interesting facet of the hobby.

When I lived in Thuro, on the North coast of Scotland, our club was involved in a project to monitor Aurora. conditions on a continuous basis. The last sunspot minimum was chosen to hold the INTERNATIONAL QUIET SUN YEAR, or IQSY as it was called. Beacon stations were set up in various countries with omni directional antennas, and they sent out signals in the 10m band on cw. The Radio Society of Great Britain set up a station at Lerwick , Shetland Islands and hams set up a number of monitor stations to listen for signals reflected off the aurora, when it occurred. Ten metres

was chosen as there was little or no activity on that band during the sunspot minimum.

At the high school in Thursday we installed a 10m beam pointing north, feeding into an AR88 receiver tuned to the beacon station frequency. A recording voltmeter was tied into the I.F. of the receiver and a tape recorder was available to tape the audio as it came through.

The call of the beacon station was GB3LER and of course this was sent as an identifier during transmissions. A nightly net was activated on 80m and all monitor stations would call in with latest details of when and where the band opening was being heard.

We were very surprised at the number of auroral openings that took place and we also found that the WWV Geoalerts were invaluable in trying to predict when there would be auroral activity.

This effort ran for over two years and got recognition and high praise from the various concerned societies as it provided valuable information on the amount of auroral activity and its effect on communications at that frequency. This is one aspect of radio astronomy that can be tried with very simple and inexpensive equipment. We are now in a sunspot minimum again so if anyone wants to get their feet wet, it shouldn't be too hard. A beacon station would not be required if skeds were set up with another station able to transmit on 10m and far enough away to eliminate groundwave propagation.

GB3LER also transmitted simultaneously on 70mhz and 144mhz to test the auroral propagation at these frequencies. We were given permission to use the 70mhz band or 4m band at that time and I believe that G's still have it. They were working across to the States crossband 4m to 6m during the last sunspot maximum.

Harvey is presently looking for info on either building or acquiring a dish type antenna for use in the region of 600mhz. I think it will be as well to build it Harvey.

As your local Radio Society of Ontario delegate it is one of my duties to sell the RSO and try to get as many amateurs to become members as possible. In this issue of Feedback I have enclosed a membership application form and I'd like to take a little bit of the available space to explain in my own words what RSO is all about.

I hear many varied excuses from nonmembers for their decision to remain outside the Society, and lately the main one has been that the dues of \$5 was too much. They feel that the magazine isn't worth it.

Okay, I don't buy that story unless the guy is on welfare, or is trying to exist on a pension. Usually the guy is using ham gear worth from \$200 to \$1000, so the cost of an RSO membership at \$5 is less than 10c per week and as he sits there complaining he is usually blowing smoke through his nose from a pack of cancer sticks at the rate of roughly 75c per day. Furthermore the magazine is free with the membership so it has to be a bargain.

The RSO is a member of The Canadian Amateur Radio Federation and so is the voice that represents Joe Ham when it comes to dealing with DOC. There is a QSL bureau run by the organisation, they have a library of information on 2m gear that is available to members free on request, a TVI committee will help if a member has problems in this area, speakers are available for club meetings. Ontars is sponsored by RSO, the Canadian Division of ARRL uses the Canadian Amateur, which is the voice of CARF, as the means of communication within their organization, and CARF is supported by RSO. In addition to the above they send out weekly bulletins on 18 nets throughout the province, print QSL cards for members and generally do whatever is necessary to help amateurs where ever the need arises.

The membership count stood at 1413 paid up members as of March 31st / 74. This is less than half of the amateur population in Ontario, and the sad part is that most VE's I talk to complain bitterly about the fact that the ARRL is telling them what to do , but when a Canadian Organization is formed they won't join it. You colonials squawked for years for your own flag , then when you finally got one you want somebody else to wave it for you. If you join RSO, just fill in the attached form and give it to the club secy. who will send them all in and the club will get 5Cc of each subscription. This way you only pay \$4.50 for all the above mentioned benefits and you have helped the club while at the same time saving the 8c for postage .



INTERNATIONAL DX ASSOCIATION  
ARRL DXCC COUNTRIES LIST  
COMPILED BY BUD K3RLY  
APRIL - 1972



No.	Prefix	Name	W	C	NO.	Prefix	Name	W	C
1	A2	Botswana			41	FB8W	Crozet Island		
2	C21	Nauru			42	FB8X	Kerguelen Island		
3	C31	Andorra			43	FB8Z	Amsterdam & St. Paul		
4	AC3	Sikkim			44	FC	Corsica		
5	AC4	Tibet			45	FG7	Guadeloupe		
6	AC5/A5	Bhutan			46	FH8	Comoro Islands		
7	AP	East Pakistan			47	FK8	New Caledonia		
8	AP	West Pakistan			48	FL8	French Somaliland		
9	BV	Formosa (Taiwan)			49	FM7	Martinique		
10	BY	China			50	FO8	Clipperton Island		
11	CE	Chile			51	FO8	French Oceania		
12	CEØA	Easter Island			52	FP8	St. Pierre & Miquelon		
13	CEØX	San Felix Is.			53	FR7	Glorioso Island		
14	CEØZ	Juan Fernandez Is.			54	FR7	Jaun de Nova/Europa		
15	CO	Cuba			55	FR7	Reunion Island		
16	CN8	Morocco			56	FR7	Tromelin Island		
17	CP	Bolivia			57	FS7	French St. Martin		
18	CR3	Portuguese Guinea			58	FWS	Wallis/Futuna Is.		
19	CR4	Cape Verde Islands			59	FY7	French Guiana		
20	CR5	Sao Tome Island			60	G	England		
21	CR6	Angola			61	GC	Guernsey & Depends.		
22	CR7	Mozambique			62	GC	Jersey		
23	CR8	Portuguese Timor			63	GD	Isle of Man		
24	CR9	Macao			64	GI	Northern Ireland		
25	CT1	Portugal			65	GM	Scotland		
26	CT2	Azores			66	GW	Wales		
27	CT3	Madeira Island			67	HA	Hungary		
28	CX	Uruguay			68	HB	Switzerland		
29	DJ/DM	Germany			69	HBØ	Liechtenstein		
30	DJ	Philippines			70	HC	Ecuador		
31	EA	Spain			71	HC8	Galapagos Islands		
32	EA6	Balearic Islands			72	HH	Haiti		
33	EA8	Canary Islands			73	HI	Dominican Republic		
34	EA9	Melilla and Ceuta			74	HK	Colombia		
35	EA9	Spanish Sahara			75	HKØ	Bajo Nuevo Island		
36	EI	Ireland			76	HKØ	Malpelo Island		
37	EL	Liberia			77	HKØ	San Andres/Provid'sa		
38	EP	Iran			78	HL/HM	Korea		
39	ET3	Ethiopia			79	HP	Panama		
40	F	France			80	HR	Honduras		

No.	Prefix	Name	W	C	No.	Prefix	Name	W	C
81	HS	Thailand			125	OE	Austria		
82	HV	Vatican			126	OH	Finland		
83	I	Italy			127	OH <del>X</del>	Aland Island		
84	IS	Sardinia			128	OJ <del>X</del>	Market Reef		
85	JA/KA	Japan			129	OK	Czechoslovakia		
86	JD	Ogasawawa			130	ON	Belgium		
87	JD	Minami Torishima			131	OX	Greenland		
88	JT	Mongolia			132	OY	Faroe Islands		
89	JW	Svalbard/Bear Is.			133	OZ	Denmark		
90	JX	Jan Mayen Is.			134	PA	Netherlands		
91	JY	Jordan			135	PJ	Netherlands Ant'les		
92	K/W	United States			136	PJ7	Dutch St. Martin		
93	KB6	American Phoenix			137	PY	Brasil		
94	KC4	Navassa Island			138	PY <del>X</del>	Fernando de Noronha		
95	KC6	Eastern Caroline Is.			139	PY <del>X</del>	Trindade Island		
96	KC6	Western Caroline Is.			140	PY <del>X</del>	Peter and Paul Rks.		
97	KQ4	Guantanamo Bay			141	PZ	Surinam		
98	KQ6	Guam Island			142	SM	Sweden		
99	KQ6	Mariana Islands			143	SP	Poland		
100	KH6	Hawaiian Islands			144	ST	Sudan		
101	KH6	Kure Island			145	SU	Egypt		
102	KJ6	Johnston Island			146	SV	Greece		
103	KL7	Alaska			147	SV	Dodecanese Islands		
104	KM6	Midway Island			148	SV	Crete		
105	KP4	Puerto Rico			149	TA	Turkey		
106	KP6	Palmyra Island			150	TF	Iceland		
107	KR6	Ryukyu Islands			151	TG	Guatamala		
108	KS4	Serrana Bank			152	TI	Costa Rica		
109	KS4	Swan Island			153	TI9	Cocos Island		
110	KS6	American Samoa			154	TJ	Cameroun		
111	KV4	Virgin Islands			155	TL	Central African Rep.		
112	KW6	Wake Island			156	TN	Congo Republic		
113	KX6	Marshall Islands			157	TR	Gabon		
114	KZ5	Canal Zone			158	TT	Chad		
115	LA	Norway			159	TU	Ivory Coast		
116	LU	Argentina			160	TY	Dahomey		
117	LX	Luxembourg			161	TZ	Mali Republic		
118	LZ	Bulgaria			162	UA/V/W	European USSR		
119	MP4B	Bahrein Island			163	UA1	Franz Josef Land		
120	MP4M	Muscat			164	UA2	Kaliningrad		
121	MP4Q	Qatar			165	UB/T/Y	Ukraine		
122	MP4T	Trucial States			166	UA/9/0	Asiatic USSR		
123	PA	Peru			167	UC2	White Russia		
124	OD5	Lebanon			168	UD6	Azerbaijan		

No.	Prefix	Name	W	C	No.	Prefix	Name	W	C
169	UF0	Georgia			213	VQ9	Seychelles Is.		
170	UG6	Armenia			214	VR1	British Phoenix Is.		
171	UI8	Turkoman			215	VR1	Gilbert & Ellice Is.		
172	UI8	Uzbek			216	VR2	Fiji Islands		
173	UJ8	Tadzhik			217	VR3	Fanning & Christmas		
174	UL7	Kazakh			218	VR4	Solomon Islands		
175	UM8	Kirghiz			219	VR5	Tonga Islands		
176	UO5	Moldavia			220	VR6	Pitcairn Island		
177	UP2	Lithuania			221	VS5	Brunei		
178	UQ2	Latvia			222	VS6	Hong Kong		
179	UR2	Estonia			223	VU	India		
180	VE/VO	Canada			224	VU	Andaman & Nicobar		
181	VK	Australia			225	VU	Laccadive Islands		
182	VK	Lord Howe Island			226	XE	Mexico		
183	VK	Willis Island			227	XT	Voltaic Republic		
184	VK9	Christmas Island			228	XU	Cambodia (Khmer Rep.)		
185	VK9	Cocos (Keeling) Is.			229	XW8	Laos		
186	VK9	Norfolk Island			230	XZ	Burma		
187	VK9	Papua Territory			231	YA	Afghanistan		
188	VK9	New Guinea			232	YB	Indonesia		
189	VKØ	Heard Island			233	YI	Iraq		
190	VKØ	Macquarie Island			234	YJ	New Hebrides		
191	VP1	British Honduras			235	YK	Syria		
192	VP2	Anguilla			236	YN	Nicaragua		
193	VP2	Antigua/Barbuda			237	YO	Rumania		
194	VP2D	Dominica			238	YS	Salvador		
195	VP2G	Granada			239	YU	Yugoslavia		
196	VP2K	St. Kitts/Nevis			240	YV	Venezuela		
197	VP2L	St. Lucia			241	YVØ	Aves Island		
198	VP2	Montserrat			242	ZA	Albania		
199	VP2S	St. Vincent			243	ZB2	Gibraltar		
200	VP2V	British Virgin Is.			244	ZD3	Gambia		
201	VP5	Turks and Caicos			245	ZD5	Swaziland		
202	VP7	Bahama Islands			246	ZD7	St. Helena Island		
203	VP8	Falkland Islands			247	ZD8	Ascension Island		
204	VP8	South Georgia Is.			248	ZD9	Tristan & Gough Is.		
205	VP8	South Orkney Is.			249	ZE	Rhodesia		
206	VP8	South Shetland Is.			250	ZF1	Cayman Island		
207	VP8	South Sandwich Is.			251	ZK1	Cook Islands		
208	VP9	Bermuda Islands			252	ZK1	Manihiki Island		
209	VQ9	Aldabra Island			253	ZK2	Niue Island		
210	VQ9	Chagos Islands			254	ZL	New Zealand		
211	VQ9	Desroches Island			255	ZL/C	Campbell Island		
212	VQ9	Farquhar Island			256	ZL/C	Chatham Island		

No.	Prefix	Name	W	C	No.	Prefix	Name	W	C
257	ZL/K	Kermadec Islands			301	8R	Guyana		
258	ZM7	Tokelaus Islands			302	8Z4	Arab/Iraq N. Zone		
259	ZP	Paraguay			303	9A/M1	San Marino		
260	ZS	South Africa			304	9G	Ghana		
261	ZS2MI	Marion Island			305	9H	Malta		
262	ZS3	South West Africa			306	9J	Zambia		
263	3A	Monaco			307	9K	Kuwait		
264	3B6/7	Agalega/St. Brn'dn			308	9L	Sierra Leone		
265	3B8	Mauritius			309	9M2	West Malaysia		
266	3B9	Rodriguez Island			310	9M8	East Malaysia		
267	3C	Equatorial Guinea			311	9N1	Nepal		
268	3C3	Annohon Island			312	9Q5	Zairye Republic		
269	3V	Tunisia			313	9U5	Burundi		
270	3W	Vietnam			314	9V	Singapore		
271	3Y	Bouvet Island			315	9X	Rwanda		
272	4S7	Ceylon			316	9Y4	Trinidad		
273	4U	ITU Geneva			317	KC4/etc	Antartica		
274	4W	Yemen			318		Blenheim Reef		
275	4X/4Z	Israel			319		Geyser Reef		
276	5A	Libya			320		Minerva Reef		
277	5B4/ZC	Cyprus			321		Maria Theresa		
278	5H1	Zanzibar			322		Spratley Islands		
279	5H3	Tanzania			323		Hannish Islands		
280	5N2	Nigeria							
281	5R8	Malagasy Republic							
282	5T	Mauritania							
283	5U7	Niger							
284	5V	Togo							
285	5W1	Western Samoa							
286	5X5	Uganda							
287	5Z4	Kenya							
288	6D4	Revilla Ggedo Is.							
289	6O1	Somali Republic							
290	6W8	Senegal							
291	6Y5	Jamaica							
292	7G	Republic of Guinea							
293	7O	South Yemen							
294	7O	Kamaran Island							
295	7P	Lesotho							
296	7Q7	Malawi							
297	7X	Algeria							
298	7Z	Saudi Arabia							
299	8P6	Barbados							
300	8Q	Maldiv Islands							