

# back

georgian bay  
amateur radio club

c/o Cy Weaver, Ve3DQA  
197 8th St., Hanover, Ont.  
N4N 1J4

VOL.6 No.2  
October 1979

PRESIDENT : Don Richards, Ve3IDS

VICE PRES.: Harvey Smith, Ve3FOT

SEC-TREAS.: Cy Weaver, Ve3DQA

EDITOR : Jim Harron, Ve3BFV

ASS.EDITOR: Harvie Smith, Ve3FOT

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## THE PRESIDENT'S MEMO

Hello again. Well, fall is here and there seems to be some more activity brewing in the ham shacks now. Quite a few fellows are dusting off the soldering irons and starting on projects saved up through the summer. I was wondering if a club project might be of interest to some of the members. We could start with something small such as a low voltage power supply to run keyers, QRP rigs, charge nicads, etc. If anyone is interested give me a shout and maybe we can get something off the ground this winter. CU at the October meeting on the 18th.

73's  
Don Ve3IDS

### ITEMS OF GENERAL INTEREST

As most of you know, one of our past presidents, Ian, Ve3HIP, has left Owen Sound and has taken up residence in a condominium in Mississauga. He is with his same employer. Bill, Ve3IHV, was talking to him recently and reports that Ian is active on 20 meters and has been in contact with Bill Cowan, Ve1IQS, in New Brunswick. As yet Ian is not operational on 75 but he is working on it. He sends his regards to the GBARC members.

Jim, Ve3CRV, has returned to his old routine after spending several weeks in G-land. He has promised a short report on his travels for the next issue of Feedback.

Bill, Ve3IHV, in Port Elgin, has started a new career. His QTH is still the same but will be away most of the time. We all wish him success in his new line of work.

Wes, Ve3EPC, has returned home from a sudden visit to his local hospital. Reports are that he is making a satisfactory recovery. We hope to hear him on the air soon.

Jeff, Ve3KPT, is putting out a fine signal on 2 meters with his new rig.

The RSO repeater, Ve3RSO, located at Orangeville, is now in operation. The input is on 146.625 and output on 146.025 with 100 watts. Code practise starts on October 15th at 1900 hours.

Bill, Ve3EFX, and Tess, Ve3HIR, attended a get-together at the home of Ve3HH. Carl lives in Listowel and has been a licensed amateur for 60 years!

The Toronto FM Communications Society plans to install a 450 mhz repeater on the site of Ve3RPT. The frequency will be 447.1 in and 442.1 out and hopefully will be in operation on Oct. 31st. Fellow amateurs are invited to listen for this experimental station. It will be an open repeater useable by any station within range. By simple TT command the repeater can be linked to Ve3RPT allowing full duplex autopatch.

This is a reminder to all Radio Amateurs to send in their ballots for the w president and directors for the Canadian Radio Relay League as requested through the mail.

## SPLIT RAIL FESTIVAL

Once again, The Georgian Bay Amateur Radio Club was requested to enter a display in the annual extravaganza at Flesherton. And again, you fellows came through with flying colours.

Activities got into high gear just a few hours before the official opening on Friday, September 21st.

A trapped dipole was erected for 20, 40 and 80 meters, as well as a 2 meter beam and a 20 meter wire for the teletype rig. Furniture was supplied by Alex FTW, upon which maps and QSL cards were displayed. Transceivers loaned by Walter IYW were set up. He also supplied a key and code practice oscillator, just to show that CW is still the basic language in amateur radio. A flashy radio-controlled model plane, belonging to Walter FPN, was suspended from the ceiling. And then, to portray more advanced progress in our hobby, Stan brought in a couple of T.V. receiving dish antennas.

The teletype, low band and 2 meter rigs were running almost continuously. Also, the club members were always on hand to answer questions and explain to the uneducated, just what all those "weird noises" meant.

Hams participating, as well as those mentioned, included Wilf IYU, Ed GVL, Fred KPK and Mel LPG. Sincere thanks goes to all who helped in any way, with a special appreciation extended to Stan, for getting it all together and being present for the entire duration of the show.

Our contacts included several parts of Ontario, the Maritimes, Manitoba and several states in the U.S. However, we were more intent in keeping the audience informed and interested, rather than racking up QSO's. For the most part, the radios were left on "receive" and the messages being emitted from the prominent loud speakers, were ample proof that lots of activity on the amateur radio bands is readily available.

By the time the Festival ended, it was evident that you created a further awareness of Ham Radio. Our prominently displayed theme, "Ham Radio Is Fun" is very basic but was so clearly understood by the hundreds of spectators.

submitted by Dave Dixon, Ve3DXO

For Sale

G4ZU-X 20 meter mono-band beam. \$25.00. Contact Verne Ve3BSF  
3 in. portable oscilloscope, Hickok. \$50.00. Also precision  
Audio Oscillator, 2-100,000 cycles, decade selected, General  
Radio model 1302-A. \$40.00. Contact Jim, Ve3BFV.

A REMINDER-Fred, Ve3KPK, will monitor Ve3OSR on Thursday evenings at 2100 hours for members input to the program chairman regarding program material. Please cooperate.

The Editors of FEEDBACK are most receptive to submissions for inclusion in the coming issues of FEEDBACK. Manuscripts may be either typed or hand-written. But do not expect any remuneration!

Wanted- Someone to design a new cover for FEEDBACK. Please submit design to the Editor.

CLUB MEETING IS ON OCT 18, 8:00 AT THE  
OWEN SOUND COLLISEUM, UPSTAIRS ROOM.

GEORGIAN BAY AMATEUR RADIO CLUB 1929 MEMBERSHIP LIST

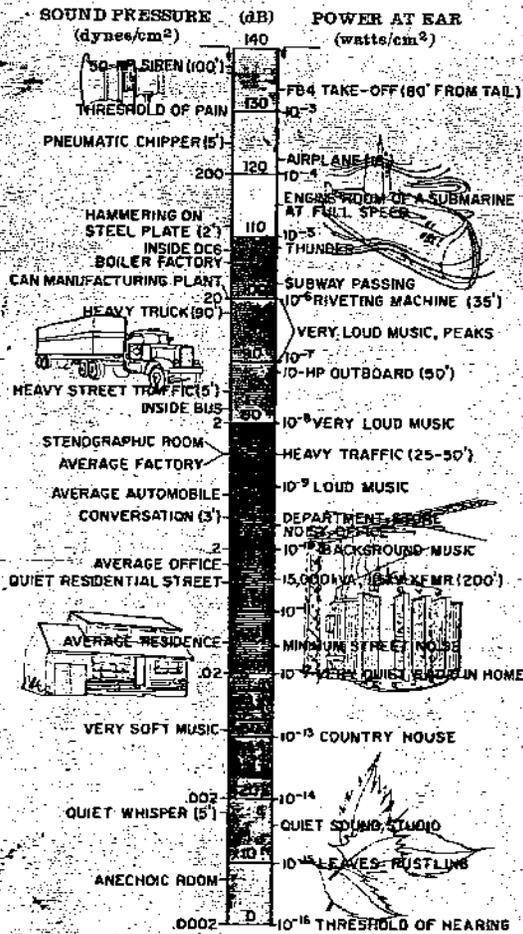
No.	Call	Name	Address	Phone	ARRL	R S O	C A R F
1	Ve3AAF	Roy Miller	R.R.4 Uxbridge, Ont. LOC 1K0	852-6447	X		
2	Ve3AEO	Ted Scarrow	308 12th St.W., Owen Sound, Ont., N4K 3V4	376-9004	X		
3	Ve3AKC	Art Andrews	28 Day St., Galt-Cambridge, Ont., N1S 3P9	621-7813	X		
4	Ve3AUB	Jack Barrett	10 Painted-post Drive, Scarborough, Ont. M1M1K9	438-0672	X		
5	Ve3BFV	Jim Harron	R.R.2 Kemble, Ont. NOH 1S0	371-1209	X		
6	Ve3BIS	Dick Shave	Box 351, Southampton, Ont., NOH 2I0	797-2401	X		
7	Ve3BRX	Art Windle	B346, Wearford, Ont., NOH 1Y0	538-3438	X		
8	Ve3BSF	Verne Bohlender	Box 416, Chesley, Ont., NOG 1I0	363-3027	X		
9	Ve3CAC	Jerry Dantzer	308 Crawford St., Port Elgin, Ont. NOH 2C0	832-9582		X	
10	Ve3CHS	Mike Smith	Box 117 Windemoya, Ont., POP 1S0	377-5741		X	
11	Ve3CRV	Jim Vamplew	664 3rd Ave. E. Owen Sound, Ont., N4K 2K1	376-4951	X		
12	Ve3CTQ	Cam Thomas	Box 1583, Kincardine, Ont., NOG 2G0	396-7083	X		
13	Ve3CXN	Rev. H. Nuhn	176 7th Ave. E., Owen Sound, Ont., N4K 2W7	376-4350		X	
14	Ve3DGP	Bill Palmer	Gen. Delivery, Port Elgin, Ont., NOH 2C0	832-9447		X	
15	Ve3DKF	Jim Foote	Box 340, Paisley, Ont., NOG 2N0	353-5748	X		
16	Ve3DQA	Cy Weaver	197 8th St, Hanover, Ont., N4N 1J4	364-2843	X		
17	Ve3DTS	Jack Avis	Box 455, Wiarton, Ont., NOH 2T0	534-0151	X		
18	Ve3DXO	Dave Dixon	Box 265, Markdale, Ont., NOG 1H0	986-3082	X		
19	Ve3EFP	Bill Hardie	Box 190 Tiverton, Ont., NOG 2T0	368-7822	X		
20	Ve3EPC	Wesley White	R.R.3 Pricerville, Ont., NOC 1K0			X	
21	Ve3FFN	Walter Stoyko	R.R.1 Proton Station, Ont., NOC 1I0	923-5766	X		
22	Ve3FOF	Harvey Smith	550 19th St.W. Owen Sound, Ont., N4K 6B8	371-2095	X		
23	Ve3FOF	Bill Baker	Box 211, Paisley, Ont., NOG 2N0	353-5830	X		
24	Ve3FTW	Alex MacWilliam	Box 211, Dundalk, Ont., NOC 1B0			X	
25	Ve3GDN	Oliver Ketchabaw	21 Elmwood Drive, Cambridge, Ont., N1R 4X9	621-7577	X		
26	Ve3GMR	Jim Chase	6655 Russel St., Niagara Falls, Ont., L2J 1P9	356-6535	X		
27	Ve3GVL	Ed Bilkey	R.R.3 Markdale, Ont., NOC 1H0	986-2649	X		
28	Ve3HIP	Ian Trenholm	2929 Aquatane A. Meadowdale, Mississauga, Ont.			X	
29	Ve3HIR	Tess Hardie	Box 190 Tiverton, Ont. NOG 2T0	368-7822	X		
30	Ve3HP	Art Ferguson	Box 208, Tobermory, Ont., NOH 2R0	2636	X		
31	Ve3HSE	Eric Hilbig	Box 191, Port Elgin, Ont., NOH 2C0	832-2854	X		
32	Ve3HXV	Jerry Bradley	Box 40, Wearford, Ont., NOH 1Y0	538-2654	X		
33	Ve3HXX	Ted Brown	Box 816, Owen Sound, Ont., N4K 5W9	376-7621	X		
34	Ve3HXX	Ian Sutherland	R.R.5 Owen Sound, Ont., N4K 5W7	376-7787	X		
35	Ve3HYX	Jorgen Hertzum-Larsen	R.R.2 Tiverton, Ont., NOG 2T0	396-4549	X		
36	Ve3IDQ	Keith Ferguson	155 Centennial Road, West Hill, Ont., M1C 1Z8	284-9408	X		
37	Ve3IDS	Don Richards	R.R.2 Hepworth, Ont., NOH 1P0	422-1748	X		
38	Ve3IEV	John Cotterell	R.R.2 Owen Sound, Ont., N4K 5N4	371-2458	X		
39	Ve3IHV	Bill Taves	Box 1666 Port Elgin, Ont., NOH 2C0	832-9339	X		
40	Ve3INQ	Ivan Payne	Box 146, Toronto, Ont., M6H 4E1	249-6774	X		
41	Ve3IQS	Bill Cowan	41 Brookview Cres., St. John, N.B. E2M 4K9	674-2330	X		
42	Ve3IYF	John Wylie	Box 592 Southampton, Ont., NOH 2L0	597-2369	X		
43	Ve3IYU	Will Blakey	General Delivery, Maxwell, Ont., NOC 1J0	922-2844	X		
44	Ve3EZL	Clare Plummer	R.R.2 Wiarton, Ont., NOH 2T0 (summer)	534-0428	X		

12 San Juan Lane, Spanish Lakes, Port St. Lucie, Florida, 33452 (winter)

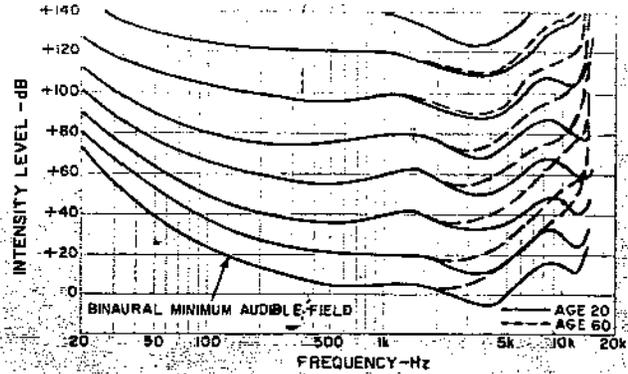
GEORGIAN BAY AMATEUR RADIO CLUB 1979 MEMBERSHIP LIST

No.	Call	Name	Address	Phone	F A T C H	C A R R F	R S O	A R R L
045	VE3KPK	Fred Kuznicki	Box 694, Owen Sound, Ont., N4K 5R4	376-5228				
046	VE3KPT	Jeff Marklevitz	Box 434, Chesley, Ont., NOG 1L0	363-2523			X	X
047	VE3IEC	Harry Rosenburg	2045 Dufferin St., Toronto 10, Ont., M6E 3R4	651-1210				
048	VE3OX	Mel Jones	Box 6, R.R. 2 Hepworth, Ont. (Summer)	935-2042				
049	VE3WF	Fred Koepke	593 23rd St. W. Owen Sound, Ont., N4K 4H1	376-6341				
050	SWL	Don Bain	138 <del>10th</del> St. E. Owen Sound, Ont., N4K 1S3	376-2466			X	X
051	SWL	Maurice Sargent	305 14th St. Owen Sound, Ont., N4K 6B7	371-9959				
052	SWL	Larry Weddell	R.R. 1 Walkerton, Ont., NOG 2V0	538-3599			X	
053	SWL	Cliff Oliver	Box 1628, Meaford, Ont., NOH 1Y0	924-2473				
054	SWL	Stam Guzanos	Flesherton, Ont., NOG 1L0	371-0356				
055	SWL	Larry Couch	1780 9th Ave., East, Owen Sound, Ont.,					
056	VE3JFW	Walter Walls	R.R. 1 Dundalk, Ont., NOG 1B0					
0	SWL	Ernest Madonia	1539 92nd Ave East N4K 3G1					
0	SWL	Gen Selwyn Kimberley	NOG 1G0					
0	VE3LPT	Maurice Hankland	2144 Collingwood Rd. NOH 1V0					
0	VE3LPO	Townsend Wynne	244 Collingwood Rd. NOH 1Y0					
0	VE3LPC	Roy Walker	RR 1063, Walkerton Ont. NOG 2V0					
0	VE3LPG	Markford Holmes	RR 6 Markdale. Ont. NOG 1H0					
0	VE3LEZ	Andy Robinson	POB 3 Lgin Ont. NOH 2E0					
0	VE3LPK	Terry Robinson	NOG 1L0					
0	VE3LPO	Roger C. Coogran	Box 88, Chesley Ont.					
0	VE3MFW	The London Amateur Radio Club Inc.	Station B, London, Ont. N6A 4V3					
0	SWL	Serge Zeigler	RR 6 Markdale, NOG 1H0					
0	SWL	Mr. Don Rowe	1304 4th Ave. East Owen Sound, N4K 2H7					

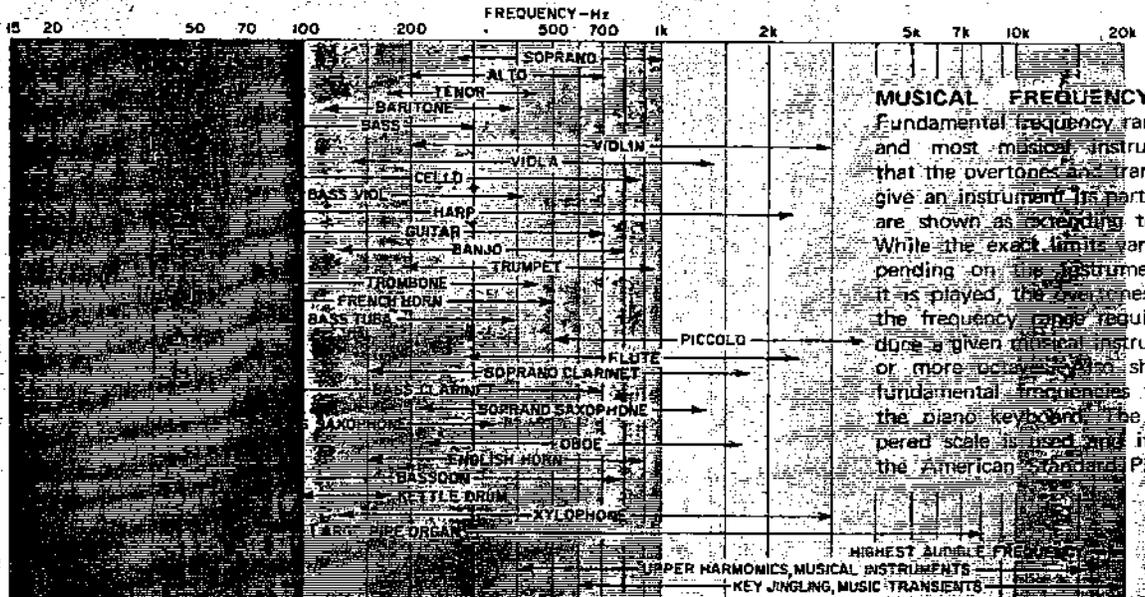
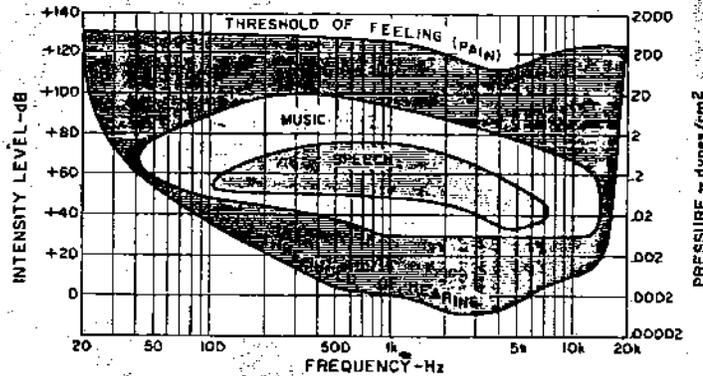
# SOUND



**RELATIVE SOUND LEVELS.** Some of the most common sounds and noise—from the threshold of hearing out to beyond the threshold of pain.



**FREQUENCY and VOLUME RANGES.** The approximate boundaries of normal hearing based on Fletcher-Munson data. No sound is heard below level indicated by the lower contour. Sound levels that are above the upper contour are felt rather than heard and may be accompanied by a sensation of pain. Also shown are volume levels and the frequency ranges of music as well as of speech.



Channel No.	Freq. (MHz)	V.F.M.F. (MHz)	Subcarrier	Power (MHz)
2	54-60	65.25	58.83	179.75
3	60-66	61.25	64.83	185.75
4	66-72	67.25	70.83	191.75
5	76-82	77.25	80.83	197.75
6	82-88	83.25	86.83	203.75
FM	88-108			209.75
				215.75

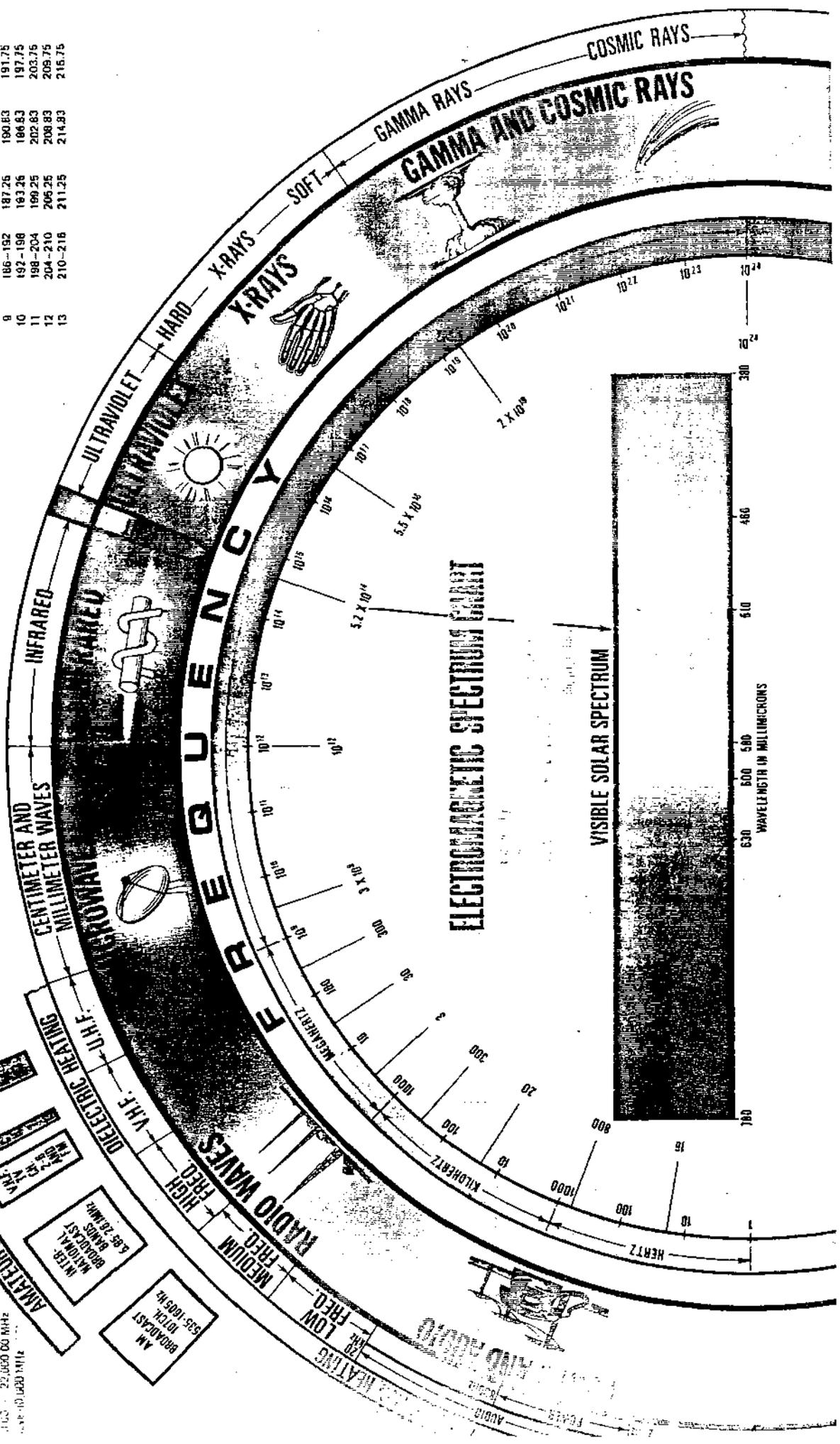
Channel No.	Freq. (MHz)	V.F.M.F. (MHz)	Subcarrier	Power (MHz)
7	174-180	175.25	178.83	179.75
8	180-186	181.25	184.83	185.75
9	186-192	187.25	190.83	191.75
10	192-198	193.25	196.83	197.75
11	198-204	199.25	202.83	203.75
12	204-210	205.25	208.83	209.75
13	210-216	211.25	214.83	215.75

Channel No.	Freq. (MHz)	V.F.M.F. (MHz)	Subcarrier	Power (MHz)
25	5.95 - 6.200 MHz			
26	9.50 - 9.775 MHz			
27	11.70 - 11.975 MHz			
28	15.10 - 15.450 MHz			
29	17.70 - 17.800 MHz			
30	21.46 - 21.750 MHz			
31	25.80 - 26.100 MHz			

Channel No.	Freq. (MHz)	V.F.M.F. (MHz)	Subcarrier	Power (MHz)
26	9600 - 27.2000 MHz			
27	462.5375 - 482.7375 MHz			
28	467.5375 - 487.7375 MHz			

Channel No.	Freq. (MHz)	V.F.M.F. (MHz)	Subcarrier	Power (MHz)
1	2.00 MHz			
2	4.10 MHz			
3	7.00 MHz			
4	14.36 MHz			
5	21.45 MHz			
6	29.70 MHz			
7	54.00 MHz			
8	148.00 MHz			
9	228.00 MHz			
10	310.00 MHz			
11	430.00 MHz			
12	630.00 MHz			
13	930.00 MHz			
14	1.300.00 MHz			
15	2.150.00 MHz			
16	3.500.00 MHz			
17	5.825.00 MHz			
18	10.500.00 MHz			
19	22.050.00 MHz			
20	40.000.00 MHz			

Channel No.	Freq. (MHz)	V.F.M.F. (MHz)	Subcarrier	Power (MHz)
25	5.95 - 6.200 MHz			
26	9.50 - 9.775 MHz			
27	11.70 - 11.975 MHz			
28	15.10 - 15.450 MHz			
29	17.70 - 17.800 MHz			
30	21.46 - 21.750 MHz			
31	25.80 - 26.100 MHz			



## DGC seeks input on use of 890-960 MHz band

**The following appeared in the Aug. 18, 1979 edition of the Canada Gazette as Notice No. DGTR-019-79 and is repeated here in the interest of readers who may wish to respond:**

The General Radio Service (GRS) was introduced in Canada in 1962 as a low cost, technically simple, short distance, personal radio-telephone communication service of a hobby or private business nature. The growth of this service from the date of inception to the early 1970s was fairly slow, increasing from 13,500 licences in 1962-63 to 113,000 in 1974-75. In the last four years, however, the growth has been very rapid and by the end of March 1979 some 951,849 GRS licences had been issued.

As a result of this growth and the rapid evolution of the digital technology, the Department of Communications has, during the past year, commissioned a study on the management of this service and has also consulted various users and suppliers of equipment on the future direction of the service. The latter has been done largely via symposia in various parts of the country. These consultations and studies have shown that the Department should give proper consideration to the feasibility of establishing a new personal radio communication service. The objective of this new service would be not only to overcome any shortcomings which are associated with the current GRS such as: interference inside the GRS band, interference to other services (e.g. TV, etc.), and propagation reliability, but also to better respond to evolving personal communication needs. Such trends are surfacing due to the desire for communication over larger areas by use of repeaters generally used in mobile communications, the increasing use of personal computers and the need to access computer stored digital information. This evolution leads however to the requirement to establish enforceable rules for the effective use of this type of service by a larger segment of the population.

Accordingly, in March 1979, when the Department published its *Spectrum Allocation Policy in the 406 to 960 MHz Frequency Band*, it

indicated that consideration was being given to the provision of a small band within this range of spectrum for

the continued development of the General Radio Service.

It should be emphasized that the current allocation of 400 kilohertz of spectrum for GRS represents less than 0.005% of the spectrum currently utilized for all radio communications services. This small allocation is used by more than two thirds of all Canadian licensees of the spectrum. It is also evident that the rapid growth of the GRS usage was made possible due to the relatively low costs of the equipment required. These costs have ranged typically from \$50 to \$500. Technology, developed primarily for conventional mobile communications, in the 900 MHz band appears to hold the potential for similar costs, if quantities were comparable. Thus, in particular, the Department is considering the allocation of about 5 MHz for the General Radio Service in the 890-960 MHz band.

By this Notice the Department wishes to initiate a public consultation process and without wishing to limit the scope of responses, it seeks inputs in the following specific areas.

### GENERAL

- Desirability and nature of a new personal radio communication service and its relationship with the existing service.
- Types of interactions and associated applications in man to man, man to machine, machine to machine areas.
- Time frame for the development of such a service.
- Social and economic implications on the users, manufacturers and distributors of radio equipment.
- Portion of the 890-960 MHz band in which the new service should be developed.

### SERVICE FEATURES

- Selective dialing
- Paging
- Automatic Transmitter Identification
- Networking through repeaters
- Extended coverage
- Holding time limitations for both voice and data
- Data Communications
- Digital Voice

### TECHNICAL CONSIDERATIONS

- Modulation Schemes for Voice and Data
- Encoding Schemes for Digital Voice and Data

- Transmission Modes (Simplex, Duplex, Random Access, Polling, etc.)
- Bandwidths for each Channel Type
- Normal Communications Range
- Channelling Plans in the case of repeaters.
- Network Architecture (Trunking, Cellular, etc.)
- Technical Standards concerning the prevention of interference, the Signalling Methods for selective calling, paging and automatic transmitter identification, the modulation and encoding techniques, etc.

### REGULATORY ASPECTS

- Eligibility requirements
- Channel designations by service application (Voice, Data) service nature (remote control, emergency) transmitter type (mobile, fixed, repeater) nature of communications (hobby, private business), etc.
- Interconnection to other networks, cordless telephones of limited power
- Ownership of repeaters, access to stored information, etc.
- Encoded Voice
- Any other as appropriate

The Department invites the comments of all interested parties through an association or otherwise. All such submissions should be addressed to the Director General, Telecommunication Regulatory Service, 300 Slater Street, Ottawa, Ontario, K1A 0C8, and should be postmarked not later than 120 days after the publication date of this Notice. All submissions must cite the Canada Gazette Part I publication date and the Notice number.

Submissions received in response to this Notice will be made available for public inspection at the Department of Communications' Library, 300 Slater Street, Ottawa and at Regional Offices of the Department in Vancouver, Winnipeg, Toronto, Montreal, and Moncton. Those wishing to comment on these submissions may do so in writing within a further 30-day period. CEE