

# Secretary's Report

## October 1978

### MEMBERSHIP

Membership of the Association as of  
October 25, 1978 is:

Honorary Members	6
Life Members	5
Retired Members	53
Fellows	1,680
Associates	817
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	2,561
Corporate Members	85
	---
	2,646

The geographic distribution of membership  
Fellows, Associates and Corporates is listed  
below:

Newfoundland	73
Nova Scotia	92
New Brunswick	50
Quebec	281
Ontario	1,022
Manitoba	61
Saskatchewan	61
Alberta	321
British Columbia	369
NWT and Yukon	26
Prince Edward Island	1
United States	172
Australia-New Zealand	20
South and Central America	12
Africa and Asia	28
Europe	55
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	2,646

The 333 members elected since April 24, 1977 are as follows:

### FELLOWS

Abbott, J.G.	Anderle, J.P.	Barss, D.L.
Bituin, A.M.	Bujak, J.P.	Butler, R.J.T.
Butler, J.	Caelles, J.C.	Clark, R.J.M.
Clowes, R.M.	Copp, M.	Davidson, D.M.
Dawson, K.R.	Day, T.J.	Dekker, L.
Durfeld, R.M.	Edwards, W.A.D.	Gill, F.D.
Gray, R.M.	Green, A.G.	Gruenwald, W.
Gwilym, R.D.	Hackbarth, D.	Hada, S.
Hannah, G.J.R.	Harrington, R.F.	Hendry, H.E.
Hodgson, C.J.	Hoffman, B.L.	Hudson, T.L.
Hyde, R.S.	Johnston, L.M.	Kingston, P.W.
Laurent, R.	LeBreton, E.G.	Ledoux, R.L.
Leslie, J.A.	Little, H.W.	Long, D.G.F.
Luff, W.M.	Maclean, W.H.	Maresch, W.
McKinstry, B.W.	Miller, D.C.	Moore, D.W.
Moran, S.R.	Mundrey, M.G., Jr.	Mukherjee, P.
Murricane, K.	Nance, R.D.	Nassichuk, W.W.
	Nichols, J.S.	O'Driscoll, C.F.
Occietti, S.	Osatenko, M.J.	Pearce, G.W.
Owens, E.H.	Peirce, J.W.	Pickerrill, R.K.
Perry, J.	Pollmer, A.R.	Render, F.W.
Purcell, L.P.	Risk, M.J.	Robin, P.-Y.F.
Robertson, R.H.	Rogers, G.C.	Schulz, K.J.
Schrijver, K.	Schwarz, H.P.	Spang, J.H.
Simoneau, D.	Stainforth, R.M.	Stirling, J.A.R.
Stephen, W.J.	Sun, S.C.-L.	Toth, J.
Toderian, M.	Tremblay-Clark, P.	Velikanje, R.S.
Vallieres, A.	Watkins, D.H.	West, R.M.
Waugh, D.C.E.	Whetten, J.T.	

### Associates

Algerton, L.R.	Amyot, G.	Anderson, R.G.
Bailey, D.G.	Baker, C.L.	Bald, R.C.
Barnett, E.S.	Barron, P.	Bartkus, L.E.
Bazinet, J.P.	Bearinger, B.D.	Beaudin, J.
Bedard, J.H.T.	Bedrij, J.P.	Beland, G.
Besso, K.	Betit, H.	Beuillac, R.
Bevier, M.L.	Billings, M.D.	Bode, W.A.
Boily, M.	Boivin, R.	Bonser, R.P.
Booth, T.D.	Bouchard, M.	Boyle, H.C.
Brand, U.	Brard, F.	Brown, M.G.
Brown, P.	Bubar, D.S.	Bugnon, M-F.
Bulman, V.J.M.	Cape, D.F.	Carme, R.C.
Carson, D.M.	Champigny, N.	Clark, J.R.
Cone, R.D.	Cote, M.	Cote, R.
Cowan, P.	Coulombe, A.	Cousineau, P.A.
Creasy, D.E.J.	Gaulin, R.	Dance, J.T.

Day, M.J.	Desnoyers, D.W.	DesRosiers, J-P
Dewonck, B.	Dick, L.A.	Donnelly, D.A.
Dragert, H.	Driscoll, D.G.	Drysdale, J.A.
Ducharme, D.	Dumont, B.	Dunning, N.E.
Edwards, T.W.D.	Egboka, B.	Elton, J.J.
Ewing, T.E.	Findlay, D.J.	Fitzgerald, W.D.
Glach, P.D.	Foulkes, H.	Frankowitch, M.A.J.
Fung, P. C-F.	Gaulin, R.	Genereux, M.
Gerath, R.F.	Gewargis, W.	Gigliotti, F.B.
Gignae, H.	Girard, M-J.	Globerman, B.R.
Goldie, R.J.	Goedey, S.P.	Graham, J.E.
Greenough, J.D.	Guiton, R.S.	Gyongyossy, Z.D.
Hansbury, P.	Harmeson, D.B.	Harnish, S.A.
Harris, V. S-F.	Harrison, T.M.	Hartling, A.A.
Harvey, Y.	Hawkins, J.P.	Hayden, G.F.
Hebert, R.J.	Hebda, R.J.	Hillier, D.R.
Hinchey, E.L.	Hiscott, R.N.	Hodgins, J.A.
Howard, W.R.	Howe, D.J.	Hubert, M.
Hughes, S.	Humphrey, T.J.	Jansen, J.G.
Jiricka, D.	Johnston, H.M.	Josenhans, H.
Kam, S.L.	Karczewski, E.	Kidner, R.M.
Kim, S.W.	King, W.A.	Kontak, D.J.
Korec, J.E.	Kouassi, F.	Koziol, M.
Kreczmer, M.J.	Lai, S.Z.	Laliberte, J-Y.
Lalonde, A.E.	Langdon, G.S.	Laplante, R.
Leduc, M.	Lefrancois, G.	Leitch, H.C.H.
Lemieux, G.	Leonard, L.W.	Levesque, A.
Lobdell, D.G.	Loewer, R.	Lutes, G.G.
MacArthur, R.G.	MacDonald, D.E.	MacDonald, R.B.
MacGillivray, J.R.	MacLeod, J.L.	Maine, B.J.
Maley, J.	Malo, M.	Marcoux, P.
Marmont, S.	Martineau, G.	Masson, G.
McBride, A.C.	McCarter, P.N.	McCourt, G.H.
McEachern, D.G.	McFarland, S.M.T.	McMechan, M.E.
McMechan, R.D.	Mehner, D.T.	Meyers, R.E.
Mielke, R.	Miller, C.K.	Miller, J.H.L.
Miller, R.F.	Mole, J.S.	Morgan, D.
Morgan, J.	Morin, G.	Mortensen, J.K.
Murphy, J.D.	Mutti, L.J.	Nielsen, F.W.
Nilson, A.A.	Novak, T.D.	Ogundipe, E.I.
Ostler, J.	Owen, J.	Owen, R.C.
Packard, J.J.	Page, C.E.	Panagapko, D.A.
Panko, A.W.	Parker, J.S.D.	Paterson, J.G.
Pearce, D.A.	Pearson, E.M.	Pearson, W.N.
Penner, D.F.	Pescatori, L.	Plouffe, R.D.
Porritt, J.W.M.	Poruks, M.	Power-Fardy, D.J.
Pride, K.R.	Psutka, J.F.	Pucovsky, G.M.
Puodziunas, P.P.	Rendigs, R.	Rennie, D.W.
Rice, R.J.	Ricketts, B.D.	Riley, T.F.G.
Roberts, M.C.	Robinson, J.W.	Rodd, P.A.
Rodrigue, G.	Routhier, M. Claude	Ruby, M.L.
Rudkin, D.M.	Russell, D.J.	Ryan, R.J.
Sanschagrin, Y.	Sansfacon, R.	Schink, E.A.
Scratch, R.B.	Sereda, I.T.	Shalaby, H.
Shapiro, R.L.	Shultz, B.C.	Simard, A.
Singhroy, V.	Smith, D.J.	Speed, A.A.
Sprague, D.J.	St. Pierre, L.	Stewart, W.D.
Sutcliffe, R.H.	Tabatabai, M.	Theberge, R.
Thomson, B.	Thornley, P.	Thorstad, L.E.
Tihor, L.A.	Tilley, B.J.	Tosdal, R.M.
Trembley, J-P.	Trudel, P.	Turner, J.A.
Valliant, R.	Veldhuyzen, H.	Veska, E.
Walchuk, I.K.	Walkom, L.C.	Walls, P.J.
Watson, G.P.	Wemyss, N.R.	Whalen, J.B.
White, S.L.	Whittaker, P.J.	Williams, S.E.
Wing, S.J.C.	Woeller, R.	Wu, T-W.
Zaitlin, B.	Zenebisis, A.A.	

**Transfer from Associate to Fellow**

Anderson, P.	Verbeck, E.R.	Barr, S.M.
Birk, D.	Barnett, P.J.	Boronowski, A.J.
Bowlby, J.R.	Bond, W.D.	Butler, R.B.
Carlson, G.G.	Buchanan, K.J.	Clague, J.J.
Clue, J.	Chastko, L.C.	DeGrace, J.R.
Dickson, W.L.	Constable, D.W.	Duthie, R.H.
Fader, G.B.J.	Dube, C.Y.	Frishman, D.
Barratt, G.L.	Fairbank, B.D.	Goff, S.P.
Hardy, I.A.	Gilmour, W.R.	Henderson, J.B.
Henrick, M.P.	Hattie, S.S.	Hinzer, J.B.
Huxhold, P.	Hewton, R.S.	Joy, R.J.
Keats, H.F.	Jackman, D.W.	Kyle, J.R.
Lalande, P.G.	Kohut, A.P.	Longstaffe, F.J.
MacNabb, B.E.	Liard, A.C.	McAndless, P.M.
Mitchell, W.S.	Mercer, W.	Norgard, G.T.
Nowlan, G.S.	Mossop, G.D.	Palonen, P.A.
Rocheleau, M.	Nutter, D.E.	Scott, S.A.
Stamatelopoulou-Seymour, K.	Sado, E.V.	VanDine, D.F.
	Swinden, H.S.	

An additional 115 applications for membership plus 8 applications for transfer are presently being processed by the Secretary's office. Adjustments in the total membership resulted from the following:

Resigned	64
Deceased	12

**Resigned**

Angus, J.T.	Barr, C.A.	Bacon, W.R.
Beck, L.S.	Behre, C.H.	Bennett, R.A.
Beno, J.	Boal, J.D.	Boissonneault, J.R.
Brander, J.M.	Carew, T.J.	Cawthorn, M.I.
Chow, D.	Colcleugh, V.	Couillard, J.R.R.
Davie, R.F.	Davie, M.W.	Delich, M.W.
Dexter, T.W.	Drew, C.W.	Drummond, A.D.
Dyke, A.S.	Elbers, F.J.	Fahner, L.G.
Gray, I.M.	Hasek, T.M.	Holmes, T.C.
Holton, N.W.	Janes, T.W.	Kennedy, K.G.
Kidner, R.M.	Larson, R.J.	Legault, M.T.
Link, W.K.	Lulman, P.S.M.	Malcolm, D.C.
Martison, N.W.	Mielke, R.	Morton, D.H.
Mose, D.G.	McAndrew, J.M.	McCammon, B.W.
McCurdy, S.E.	Nixon, G.T.	Nolin, G.
Rimmer, W.H.	Rodgers, T.	Shalaby, H.
Schindler, N.R.	Schindler, N.R.	Severin, P.W.A.
Snyder, H.R.	Stephens, L.E.	Stow, D.A.V.
Swales, I.L.B.	Swensen, W.T.	Tella, S.
Thompson, L.K.	Trueman, E.A.G.	Valliant, H.D.
Van Oort, B.	Verge, M.J.	Vogt, P.R.
Zurbrigg, H.F.		

**It is with regret that the death of the following members must be recorded:**

**Deceased**

A.E. Aho	J.M. Carr	J. Clue
H.W. Hunter	O.L. Jeletzky	A.A.W. Kryczka
G.B. Langford	T. Lindsley	N.E. Nelson
J.C. Parres	R.F. Vallance	Brig. M. Wardell

Council also wishes to record the death of the Patron of the Association, Brig. Michael Wardell who died May 1978.

**The following members were suspended for non-payment of dues:**

1977 – for 1975 & 1976 dues

**Fellow**

W.J. Hill	W.D. Beaton	A.J. Bernard
D.E.T. Bidgood	G. Bihl	J. Dugas
D.J. Fitzpatrick	C.G.I. Friedlaender	C.G. Johnson
H.A. Kerr	R. Lakeman	J.R. Loudon
A.E. Moss	H.E.O. Neugebauer	W.L. O'Toole
Y-S. Pan	K.O. Parsch	G.E. Paulus
J.R. Poloni	J.V. Sinclair	R.A. Stacey
S-S. Tan	J.T. Teller	J.F. Touborg
R.J. Worsfold	L.A. Wigglesworth	A.N. Boydell
J. Fox	J.W. Terrill	S.J. Horsky

**Associate**

V.D. Adair	J.A. Cameron	L.D. Riglin
B.D. Calder	J. Peter Neilans	S.J. Stricker
D.J.A. Athaide	M.S. Calder	B.I. McClymont
H.J. Coates	L.J. O'Brien	D. Granter
J. Bonneau	P. Lapointe	B.W. Johnston
P.L. Dean	M.G. Kuntz	J.R. Lehto
D.B. Eggerton	T.G. Frohlinger	M.C. Newbury
J.H. Hawkins-Clarke	D.G. Hughes	D.A. Pocock
L. Laliberte-Malo	J.Y. Lavoie	J.E. Tillman
R. Maurice	M.H. McGonical	M.M. Nassar
R.S. Nichols	M.J. Perkins	P.M. Waters
D.I. Spiers	M.W. Waldner	A.J. Davidson
	D. Goulet	M. David
	M.J. Silva	D.A. Monachello

1978 – for 1977 dues

**Fellow**

M.J.G. Beley	B.E.B. Cameron	A.C. Freeze
D.Y. Currie	R.B. Farquharson	H.G. Harper
P.T. George	A.U.R. Hafiz-Zadeh	W.A. MacPherson
U. Jansons	G.L. Kirwan	R.J. Mongeau
E.R. Mead	D.A. Moddie	K.B. McHale
M. Morin	W.L. Morrell	T.A. Richards
G.A. Noel	F.P. O'Grady	F.G. Smith
E.C. Sawford	D.M. Cannon	S. Waisberg
R.I. Smith		

**Associate**

M. Beaupre	L. Belanger	I. Bell
R.B. Bonnell	M. Brownstein	K.C. Cameron
S.K. Chough	P. Fung	D.N. Glassey
J.E. Graham	E.T. Harvey	R.W.K. Ho
J. Kuskoff	G.W. Waforme	M.G. Lis
M.K. Matthews	T.L. Nguyen	L.J. Pesonen
D.J. Pimm	G. Pourret	V.V. Pratico
D.B. Thomson	N.M. Tobber	J. Vinklers
G.J. Walton	T.L. White	D.B. Wright
J.R. Yurko		

**Logan Medal**

The Logan Medal, the Association's highest award, was presented to Dr. Aleksis Dreimanis of the University of Western Ontario at the Annual Luncheon held in Toronto in October, 1978. Roger Macqueen, (President) outlined the numerous contributions made by Dr. Dreimanis in the field of Pleistocene geology. For 30 years he has pioneered the development and application of a number of methods of recognising discrete till units, illustrating the close relationship between till composition and bedrock lithology. His work in the interpretation and correlation of stratigraphic sections in eastern North America together with his techniques for till analysis have won him world-wide acclaim amongst geologists, geomorphologists, engineers, pedologists and foresters. Over the past two decades Dr. Dreimanis has played a major role in Quaternary geology at the International level, through many important contributions to the International Union for Quaternary Research (INQUA), the American and British Quaternary Associations, and the International Geological Correlation Program on Quaternary glaciations in the northern hemisphere. Aleksis Dreimanis is a person dedicated to excellence in science, and those lucky enough to know him personally will have benefited immeasurably, not only from his scientific expertise but also from his warmth and sincerity.

**Past President's Medal**

The 1978 Past President's Medal was awarded to Dr. Christopher Brooks of the Université de Montréal for his work on the development of the concept of Rb-Sr 'mantle' isochrons and their application to the understanding of magma genesis, in both oceanic and continental regions. Dr. Brooks and co-workers have been responsible for the concept of 'inherited' Rb-Sr relationships from a source in the mantle which is about 2 billion years old. They have shown that the age of the mantle source can be 'mapped' by a study of derivative magmas and the hypothesis of Rb-Sr mantle isochrons represents a major breakthrough in the application of isotope geochemistry to problems of magma genesis and crust-mantle evolution. Jean Lajoie (Past President) in awarding the medal to Dr. Brooks also mentioned his many other studies on the topic of radiometric age determinations by the use of Strontium and Rubidium isotopes.

**Finances**

The financial statement, for the year ending December 31st, 1977, prepared by the Association's auditors, was sent to all Fellows in July 1978. The delayed mailing was because of the peculiar timing of the Annual meeting which, in 1978 was held in October,

rather than in April or May. The income of the Association increased by \$7,574. over the year end net income for 1976, and the Members Equity surplus increased from \$36,494. to \$46,978. All items of income to the Association were up slightly. Advertising revenue increased by approximately 25 per cent between 1976 and 1977, and revenue from membership dues increased by a small amount. The sale of publications of the Association increased by nearly 10 per cent over the previous year, and has now reached an all-time high of nearly \$30,000.

As mentioned in the 1977 Secretary's Report, the increased costs of the Canadian Journal of Earth Sciences, which took effect in January 1977, resulted in a substantial rise in costs to the Association. Subscription to this journal now amounts to over 25 per cent of the total expenses of the Association. As the membership is aware, GAC Council was informed by NRC that CJES will increase its costs, effective January 1979 and again in January 1980. These costs will be reflected in the financial statements over the next two years, and are primarily responsible for Council's decision in June, 1978, to raise the membership dues of the Association.

Other increases incurred during 1977 include printing and stationery costs, expenditures on postage, storage and shipping, and computing costs. Encouragingly, the costs of producing the Special Papers and Geoscience Canada were reduced in 1977. This is due to the considerable efforts of G. Caldwell and G.V. Middleton and the Association owes them both a debt of gratitude. Costs for Geolog rose in 1977, but this was due to a substantially increased content in each of the parts over the year. The last major increase in expenses was due to the Central Office in Waterloo taking on one additional part-time staff member to help offset part of the workload, which was threatening the sanity of the two permanent secretaries.

As mentioned in the last Secretary's Report the Association received the sum of \$102,437. from the estate of Howard Street Robinson, formerly chief geologist of McIntyre Mines. R.W. Macqueen (Geolog Vol. 6, Pt. 3, p. 12) explained the background of this bequest to the Association and the limitations applied to its use. I mention it here because it appeared as a separate item in the revenues of the Association and the membership should be aware that this is not a part of the operating finances of GAC.

#### **Committee Activities**

The business of the Association was conducted at five Council Meetings held on April 27, 1977 in Vancouver; September 30, 1977, in Waterloo; February 4, 1978 in Quebec City; June 2, 1978 in Toronto and October 22, 1978 also in Toronto.

The activities of the respective committees are outlined below.

*The Editorial Committee*, under the chairmanship of W.G.E. Caldwell, met four times since the last annual meeting of the Association. All Editorial Committee meetings were held in conjunction with the Council meetings mentioned above, with the exception of the October 1978 meeting.

Geoscience Canada, under the editorship of G.V. Middleton, has appeared at regular intervals during the last eighteen months and has maintained its high standards. The Editorial Committee has approved a series of advertisements for Geoscience Canada in an attempt to widen circulation of the journal particularly in the United States. The editor of Geoscience Canada no longer actively solicits contributions to the journal, but it is stressed to the membership that appropriate contributions of a good standard are welcomed. It is intended to collect and reprint the series of articles on Facies Models that have appeared recently in Geoscience Canada and to make the volume of reprints, ideally suited to university students, available at a modest price. G.V. Middleton will step down as Editor of Geoscience Canada at the end of 1978 and will be replaced by R.H. McNutt. The Editorial Committee records its admiration of, and gratitude for, Middleton's contribution: not only did he conceive of the journal and launch it, he has nurtured it editorially for five years and made it a widely appreciated and recognized part of Canadian geological literature.

Geolog, under the editorship of G.L. Williams, likewise has appeared at regular intervals during the last eighteen months. The news magazine has grown in scope and size in this period, but due to the unstinting efforts of the editor, it continues to be published inexpensively and at negligible increased cost. In an attempt to make members and the activities of Council better known to the members of the Association, Geolog now carries brief accounts of Council meetings and of the more important decisions taken by Council. The editor of Geolog stresses that if the membership wishes the magazine to maintain its scope and size, regular and irregular contributions, appropriate in content, are required.

Special Paper 16, Volcanic Regimes in Canada, edited by W.R.A. Baragar, L.C. Coleman, and J.H. Hall, was published in 1977. The volume has been well received and the rate of sales is meeting expectations. Possibly as many as three other special papers will be released before the end of the year. Special Paper 17, Late Silurian and Early Devonian Graptolite, Brachiopod, and Coral Faunas from North-western Canada by D.E. Jackson, A.C. Lenz, and A.E.H. Pedder, has just been

made available for distribution; Special Paper 18, Western and Arctic Canadian Biostratigraphy (Percival Sydney Warren Memorial Volume), edited by C.R. Stelck and B.D.E. Chatterton, is in process of being printed; and Special Paper 19, History of Concepts in Precambrian Geology (James Buckland Mawdsley Memorial Volume), edited by W.O. Kupsch and W.A.S. Sarjeant, is through galley-proof stage. Other volumes should be published in 1979; these will include one on the geology and history of the Buchans Mine in Newfoundland and possibly the planned volume in honour of the Association's benefactor, Howard Street Robinson, on selected major mineral occurrences in Canada and its borderland with the United States. The Editorial Committee and Council have approved publication by Publishing House "Nedra" in Moscow of a Russian version of the highly successful Special Paper 14, Metallogeny and Plate Tectonics, edited by D.F. Strong, with royalties accruing to the Association. The Editorial Committee records its indebtedness to the Geological Survey of Canada, the National Research Council of Canada, the Price Company Limited, the University of Alberta, and other agencies, institutions, and individuals for their support of the special paper series.

The sale of older publications in early 1977, mentioned in last year's annual report, was a modest success.

*The Finance Committee* under the chairmanship of D.A. Barr commenced an enquiry into procedures and requirements for Federal incorporation. Plans are currently in progress to have the GAC incorporated. This may permit GAC to obtain tax-deductible status for a portion of its operations.

The year-to-year surplus fund position of GAC was reviewed and it was decided that no change was warranted in the current policy of investing these funds in short-term deposits.

Commencing in the 1978-79 year, GAC proposes to prepare an annual budget in order to provide greater control on its financial requirements.

*The Membership Committee* comprising J.H. Remick (Chairman), A.T. Avison, D.H. James, G.C. Milligan and C.R. Stelck reviewed some 296 membership forms during the year. There were 333 members elected with 54 transfers, and the remaining application forms are currently being processed.

Due to the increased costs of the Canadian Journal of Earth Sciences and the costs of administrating the Association, Council at their June 2nd meeting in Toronto voted to increase GAC dues (effective January 1, 1979 as follows: Fellows from \$27.00 to \$35.00; Associates from \$15.00 to

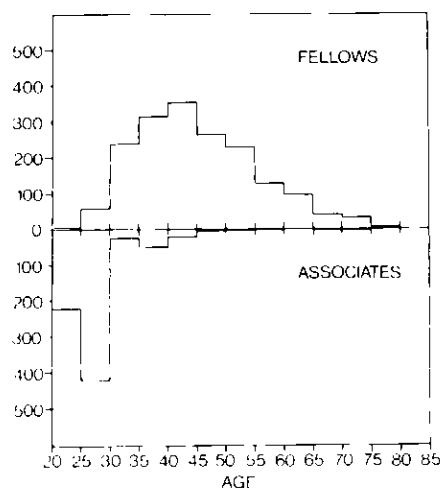
\$25.00 and Student Associates from \$15.00 to \$18.00).

The terms Honorary Members, Life Members and Retired Members have been changed to Honorary Fellows, Life Fellows and Retired Fellows.

A revised edition of the Membership List Booklet is scheduled to be distributed to the membership in the spring of 1979. A final version of a bilingual membership certificate has now been completed and copies should be available for both Fellows and Associates in 1979.

A new edition of a promotional membership leaflet for the Association is currently being printed in both English and French versions and the Association is preparing a bilingual issue of the Constitution and Bylaws Booklet which should be distributed in 1979.

In order to more fully understand the make up of the Association the Secretary attempted to find out how the membership was involved in the geological field. Unfortunately the Records of the Association are not clear in this respect but I was able to trace slightly over 40 percent of the total membership and the employment sectors are listed in Figure 1. Unfortunately this information is based upon records which possibly do not reflect the true nature of employment and I hope that members will co-operate in a survey which will accompany the annual dues notice for 1979. A compilation of age structure of the membership was also attempted since this has important implications for the finances of the Association. The age pyramid is illustrated

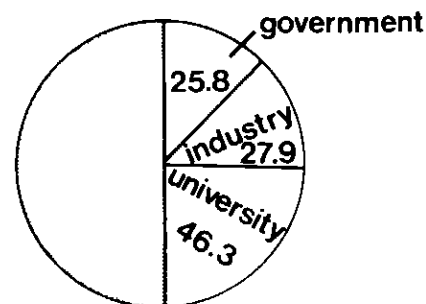


**Figure 1.**

*Employment of all Fellows and Associates of GAC. The data compilation is taken from mailing addresses only and may not accurately reflect the true percentages of distribution in each sector. Note that the 'university' category also includes students in training and not solely salaried personnel.*

in Figure 2. As expected, the majority of Associate members of GAC are clustered in the age groups of 20-30 years. There are a small number of Associates, who, because of their lack of formal university degrees, continue to remain in this category of membership long after the period when most transfers to Fellow are made. The most obvious peak (over 400 members) is in the 25-30 year age group. In the Fellow category the largest peak is in the 40-45 year age group with steadily declining numbers in each group up to, and beyond, retirement age. The vast increase in GAC membership in recent years is marked by the substantial peak in the Associate category mentioned above and in the Fellow category in the age group from 30 to 35 years.

The Program Committee, made up of J W Kramers (Chairman), V.F. Hollister, J.J. Fawcett, R. Ledoux, R.W. Macqueen, J.C. Smith and P. Bayliss (MAC representative), organized the third Lecture Tour by Hank Williams of Memorial University, the third winner of the GAC Past President's Medal During November, 1977. Hank spoke on "The Appalachian Orogen. A Model for Paleozoic Plate Tectonics" to all GAC Sections (St. John's, Winnipeg, Edmonton and Vancouver), the Atlantic Geoscience Society in Halifax (a GAC affiliated society) and to GAC members in Montreal, Ottawa and Toronto. Hank's talk was enthusiastically received all across Canada and the subject of considerable discussion. The National Lecture Tour was continued this fall (September-October, 1978) by Chris Barnes, of the University of Waterloo, another GAC Past President's Medallist, who's subject was "Ordovician Paleogeography and Conodont Biogeography of Canada". Chris made the most extensive



**Employment distribution for 42.5% of total membership.**

**Figure 2.**

*Age distribution of Fellows and Associates of the Geological Association of Canada as of September 30th, 1978.*

lecture tour to date, with stops in Corner Brook (Nfld.), Halifax, Fredericton, Montreal, Toronto, Ottawa, Winnipeg, Saskatoon, Edmonton, Vancouver, Victoria.

In the fall of 1977 the program committee circulated a questionnaire on the GAC/MAC Annual Meetings to all GAC and MAC members. Response to the questionnaire was not overwhelming (158 replies), however, it is believed that the replies were representative of the membership as a whole and not the vocal minority. A complete report on the questionnaire results has been submitted to GAC and MAC Councils and appears in the Fall 1978 issue of *Geolog.* Overall it appears that the GAC and MAC membership are satisfied with the way that the Annual Meetings are being run. There appear, however, to be two main areas of concern:

- 1) the size of the meeting – a smaller meeting of just the GAC and MAC members seems to be preferred to some of the recent larger meetings and.
- 2) the decrease in quality of presentations should be reversed by stricter review of abstracts, a strict adherence to time limits and more specific instructions for authors

The Projects Committee under the chairmanship of J-Y. Chagnon has completed its task on Group Insurance plans. The result of this evaluation is that GAC should continue to offer an insurance program similar to the one currently in effect and that we should stay out of automobile, homeowners and property insurance, R.R.S.P.'s and other varieties. It was also found that we should offer our plan through Nalaco since they have a favorable price structure considering the small number of members who subscribe to our plan. An increase in members should lower the cost of our program or increase the benefits available. Nalaco has recently improved the GAC plan by increasing the maximum allowable coverage, adding an Accidental Death and Dismemberment benefit and a new Dependent's Life benefit. A new brochure has been prepared which will be sent to members in the near future. The committee is also looking into the possibility of adding more comprehensive subdiscipline breakdown to the membership list. Lists from other societies have been obtained in order to see how they accomplish such a breakdown, and the membership will be asked to assist in future years.

The Public Information Committee, chaired by Norah J. Allman, has been active in the preparation and dissemination of information about the 1978 joint annual meeting of the GAC, Mineralogical Association of Canada and the Geological Society of America. Information circulars have been

distributed to members of the various associations and efforts have been made to publicize the event in geological newsletters and magazines around the world.

The *Women Geoscientists Committee*, chaired by Barbara Mioduszewska was going to prepare a roster of women geoscientists in Canada, however, this was not completed because of an offer by AGI to insert a 'Canadian Women' section in their directory. Although many of the problems which faced women geoscientists have disappeared over the past few years and enquiries reaching the committee are now almost non-existent, the committee will continue (for at least the next year) under the chairmanship of Sharon Bachinski.

**Sections and Divisions**

Sections of the Association are continuing to have meetings and field trips which have been reported in *Geolog. (Cordilleran Section; V. 6, pt.2, p. 8, 9; V. 7, pt. 1, p. 15; V. 7, pt. 2, p. 10, 11; V. 7, pt. 3, p. 19, 20; Victoria Branch; V. 6, pt. 3, p. 19; Winnipeg Section; V. 7, pt. 1, p. 16; V. 7, pt. 2, p. 14; V. 7, pt. 3, p. 20; Newfoundland Section; V. 6, pt. 2, p. 9, 10; V. 7, pt. 1, p. 12-14; V. 7, pt. 2, p. 11-14; V. 7, pt. 3, p. 20; The Edmonton Geological Society V. 6, pt. 4, p. 26 and the Atlantic Geoscience Society, V. 6, pt. 4, p. 24-26; V. 7, pt. 2, p. 14, 15).*

News of the activities of the respective GAC divisions are also given in *Geolog (Environmental Earth Sciences; V. 6, pt. 3, p. 15; V. 7, pt. 1, p. 7; V. 7, pt. 3, p. 16; Paleontology; V. 6, pt. 3, p. 15; V. 7, pt. 1, p. 12; Precambrian, V. 6, pt. 3, p. 15-17; Structural Geology & Tectonics; V. 6, pt. 3, p. 17-19; Volcanology, V. 7, pt. 3, p. 16-18*. The current membership of each of the Sections and Divisions is shown in Figure 3. The new *Mineral Deposits Division* of the Association was constituted at the 1978 Toronto meeting.

**Other Business**

The Youth Science Fair prize, awarded by GAC, went to Amanda Hubbard for a project entitled 'The Pendulum (Experimental variations in the Earth's Magnetic Field)'. The judges, acting on behalf of the Association were R.A. Cameron of Laurentian University and L.M. Cumming of the Department of Energy Mines and Resources.

Readers of *Geolog* have been well posted about the respective activities of certain individuals and groups within the Association, however I would like to take this opportunity to ask members of GAC to communicate news items to the Editor of *Geolog* for future editions. Over 300 members of the Canadian Society of Petroleum Geologists are now taking *Geolog* and it is to be hoped that this will help improve the informal contacts between GAC and CSPG.

**Publications**

The period between April 1977 and September 1978 has seen the publication of Special Paper 16 (Volcanic Regimes in Canada) and Special Paper 17 (Late Silurian and Early Devonian Graptolite, Bachipod and Coral Faunas from Northwestern Canada). Special papers 18 and 19 should appear before the end of 1978.

The revenues accruing from the sales of these papers have helped considerably in the financial affairs of the Association.

The sale of publications from April 1, 1977 to September 30, 1978 and stocks on hand are given below.

Proceedings	Copies Sold	Copies On Hand
Vol. 21	1	179
Vol. 22	2	145
Vol. 23	4	149
24 I	7	46
24 II	3	5
25	3	260

**Special Papers**

#1	0	4
#8	132	1,480
#9	17	46
#10	40	51
#11	195	570
#12	56	1,048
#13	121	1,006
#14	572	748
#15	399	297
#16	725	1,516

Geoscience Canada	Copies Sold	Copies On Hand
Vol. 1 #1	8	224
#2	5	32
#3	5	374
#4	6	178
Vol. 2 #2	9	95
#4	9	240
Vol. 3 #1	19	25
#2	11	337
#3	17	183
#4	16	292
Vol. 4 #1	121	454
#2	3,329	171
#3	3,441	641
#4	2,900	550
Vol. 5 #1	2,845	995
#2	2,975	285
#3	2,687	873

**Inform. Circ.**

#1	15	257
#2	42	962
#3	402	298

**Guide Book**

67	18	319
70 #5	2	30
#6	2	24

Respectively submitted  
Alan V. Morgan  
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<u>SECTIONS &amp; DIVISIONS</u>	
Cordilleran	275
Environmental Earth Sciences	180
Canadian Geophysical Union	128
Paleontology	74
Precambrian	193
Structural	119
Volcanology	152
	<u>1,121</u>
Newfoundland	
Winnipeg	These Sections collect their own dues so
Edmonton	we do not have accurate figures on membership.

**Figure 3.**  
*Current membership of Sections and Divisions of the Geological Association of Canada*