

Secretary's Report May 1979

Alan V. Morgan

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Secretary's Report

May 1979

Membership

Membership of the Association as of May 24, 1979 consists of:

Honorary Fellows	6
Life Fellow	5
Retired Fellows	66
Fellows	1,509
Associates	<u>735</u>
	2,321
Corporate Members	<u>73</u>
	2,394

This represents the first recorded decline of membership since the Association was founded in 1947. Current membership is approximately 240 below the membership reported in the 1978 Secretary's Report, despite the addition of 152 new members elected since October 25, 1978. The geographic distribution of members in the Association is as follows:

Newfoundland	73
Nova Scotia	74
New Brunswick	45
Quebec	262
Ontario	923
Manitoba	49
Saskatchewan	54
Alberta	288
British Columbia	347
NWT and Yukon	21
Prince Edward Island	—
United States	164
Australia-New Zealand	18
South and Central America	11
Africa and Asia	19
Europe	46

The 152 members elected since October 25, 1978 are as follows:

Fellows:

Amukun, S. E.	DeQuadros, A. M.
Anderson, R. B.	Dickinson, R. A.
Banting, D. R.	Dostal, J.
Benham, W. R.	Franc de Ferriere, A.
Calon, T. J.	Franconi, A.
Carmichael, D. M.	Fisher, D. M.
Clayton, R. H.	Forster, C. N.
Clistler, W. E.	Fowler, A. D.
Davidson-Arnott, R. G. D.	Fricker, A.

Gale, J. E.	Rafek, M.
Goodwin, J. A.	Ramsden, J.
Gow, N. N.	Rhodes, D.
Greggs, R. G.	Riddihough, R. P.
Hajnal, Z.	Sannes, D. L.
Kandel, J. C.	Schmidt, A. J.
Kendall, A. C.	Sethuraman, K.
Kowalchuk, J. M.	Sheahan, P. A.
Ludden, J. N.	Skinner, B. J.
Lyons, E. M.	Spooner, E. T. C.
Machamer, J. F.	Themistocleous, S.
Meunier, A. R.	Trusler, J. R.
Molloy, D. E.	Verma, H. M.
Mwanang 'Onze, E. H. B.	von Guttenberg, R.
Nichols, W. D.	Waddington, J. B.
Papertizian, V. C.	Walker, N. C.
Park, J. K.	Williams-Jones, A. E.
Patel, I.	Willy, A. J.
Pertold, Z.	Windley, B. F.
Petersen, C. R.	Yorath, C. J.
Petryk, A. A.	Ypma, P. J. M.
	Zakarian, R. L.

Associates:

Ainsworth, B. H.	Isabel, D.
Auger, R.	Jackson, J. C.
Bell, R.	Jackson, M. C.
Bernard, P.	Jackson, M. R.
Blanchette, B.	Jamieson, H. E.
Boudreauit, P.	Jamieson, R. A.
Brame, S. L.	Keevil, R. R.
Breakhouse, G. P.	Kelly, D. M.
Brisbin, D. I.	Koski, W. J.
Brisson, A. R.	Levasseur, J.
Cameron, C. S.	Leboeuf, D.
Carter, T. R.	Leclair, A.
Chance, P. N.	Lichtblau, A.
Charbonneau, L.	Maathuis, H.
Clark, P.	MacGeehan, P. J.
Clemmer, S. G.	MacLean, B. A.
D'Astous, J.	Marcotte, R.
DeLong, R. C.	Martineau, G.
Duba, D.	Mattes, B. W.
Eccles, S. L.	Mattews, H. L.
Esso, A. B.	Maxwell, G. S.
Farrell, L.	Mazurski, M. A.
Feenstra, S.	McLaren, G. P.
Fillion, D.	Miller, R. K.
Finamore, P. F.	Morris, R. J.
Franck, C.	Muhic, J. F.
Gorzynski, G. A.	Needham, R. B.
Haynes Graham, J.	Nicholson, R. V.
Hogan, D. L.	O'Brien, C.

Osborne, W. T.	Sargent, S. L.
Patterson, M. R.	Savard, M.
Phillips, A. R.	Schoel, G. H.
Reddy, M. R.	Simpson, E. L.
Reimer, J. D.	Soon, A. M.
Robertson, D. M.	Strachan, J. M.
Robertson, D. J.	Thompson, W. H.
Robitaille, R.	Thomson, M. L.
Roussy, M.	Trudell, M. R.
Rybak, U. C.	Voyer, G.
	Watters, S. E.

Transfer from Associate to Fellow:

Blackwood, R. F.
Chew, K. J.
Jeffery, B. D.
Leighton, D. G.
Lustig, G. N.
McCance, S. J.
Minning, G. V.
Nielsen, F. W.
Robinson, J. W.
Sadlier-Brown, T. L.
Shearer, J. T.
Wallford, P. C.

An additional 48 applications for membership plus 3 applications for transfer are presently being processed by the Secretary's office. Adjustments in the total membership resulted from the following:

Resigned	21
Deceased	3

Resigned

Baldwin, A. B.	Huston, C. C.
Bradshaw, P. M. D.	Kremko, M. B.
Bujak, J. P.	Lang, A. H.
Chu, G. R.	Parks, T.
Cloud, P.	Schwert, D. P.
Drybrough, J.	Silman, J. F. B.
Erb, D. K.	Tarrant, H. L.
Fitzgerald-Moore, P.	Taylor, M.
Fraser, N. H. C.	Walthall, W. F.
Gait, R. I.	Wilson, C. K.
Hunt, C. W.	

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

Deceased

Gilbert, G.
Taylor, R. S.
Wilson, H. S.

Because of the peculiar nature of the 1978 Geological Association of Canada Annual Meeting in conjunction with the Geological Society of America, the 1977 recipients of both the Logan Medal and the Past Presidents' Medal were inadvertently omitted from the Secretary's Report. In order that their achievements may be noted they have been included in the 1979 Secretary's Report.

Logan Medal (1977)

The 1977 recipient of the Logan Medal, the Geological Association of Canada's highest award, was A R Barringer, President of Barringer Research Inc. The award was made in recognition of Dr. Barringer's manifold contributions to the advancement of geoscience in Canada.

Dr. Barringer has guided and directed the development of Barringer Research Inc. since it commenced operating in 1961. He also has numerous publications outlining the technologies and instruments utilized, and delivered many papers at scientific meetings and universities. Dr. Barringer is often described as a man who constantly generates new ideas. His inventiveness has created new procedures and new instruments for finding hidden resources. Unquestionably, he has pushed forward the technology and art of exploration and is a most worthy recipient of the Logan Medal.

Logan Medal (1979)

The Logan Medal was awarded to Raymond Thorsteinsson of the Geological Survey of Canada for his outstanding contributions to Arctic geology.

Ray developed an early admiration for Arctic explorers such as Nansen, Sverdrup and Stefansson; the last, like himself, a prairie farm boy of Icelandic descent. Other important influences were Bob Douglas, of the GSC, who taught him field geology in the Rocky Mountains and R. C. Moore, who instilled a global appreciation for palaeontology and biostratigraphy at the University of Kansas.

Ray's first major Arctic assignment was to map Cornwallis Island, in 1950. He set out from there on the journey of a lifetime, to study the geology of the Arctic Islands. There is no doubt that through his own efforts and through guiding others, he has already come a great distance on this scientific journey. His ties with the Arctic Islands are so close that some people think he owns them. He doesn't own them, he just has squatter's rights!

Twenty-seven seasons of field work have enabled Ray Thorsteinsson to compile geological maps for about half a million square kilometres, covering much of the archipelago. He has established an upper Paleozoic stratigraphic framework for the Sverdrup Basin. (Additionally, he has established a lower Paleozoic framework for the

Franklinian Miogeosyncline, and he has defined several Proterozoic and Paleozoic units in the Arctic Platform. He has prepared two comprehensive syntheses of Arctic Islands geology that have stood the test of time and which have earned him many honours. His early work formed the basis for initial petroleum exploration in the Arctic Islands. Thorsteinsson's contributions to regional geology are not limited to conventional stratigraphy and structure; for example, he has co-authored an authoritative report on a meteorite impact structure on Devon Island.

Rudolf Trumphy once remarked that some people think the whole structure of the Alps could be solved without a fossil. "And", he said, "it works - until you find a fossil!" Ray has always been aware that there is hardly a geological problem that can be solved without precise knowledge of age relationships. His success in obtaining data on age relationships is based on careful integration of physical stratigraphy and mapping, and an incredible ability to extract fossils from even the most unlikely of rocks. He is an expert on ostracoderms, graptolites and fusulinaceans and has a working knowledge of several other groups.

When Ray first appreciated the importance of conodonts to lower Paleozoic stratigraphy, he collected gigantic samples that overwhelmed available lab facilities. In order to assist in the recovery of conodonts he set up his own separation lab - constantly boiling away those limestones and collecting the conodonts in his celebrated snuff boxes - celebrated because they also are the habitat for his famous three-dimensional graptolites.

Many important papers have been written by others about Ray's collections. So far his own contribution has been to establish stratigraphic relationship between diverse groups of fossils, such as graptolites, trilobites, conodonts and fish, that occur in different lithofacies. His contributions to systematic paleontology have been delayed because of his obligations to regional mapping and stratigraphical programs of the Survey. However, a voluminous report on Silurian - Devonian fish, based on years of collecting and study, is now close to completion. It not only deals with the taxonomy and evolution of ostracoderms but also establishes them as index fossils.

At a time when the literature is flooded with innumerable short, often overlapping or premature papers, he stubbornly holds out for comprehensive, major reports that take years of preparation but which inevitably become standard references.

His early explorations had an element of adventure involving long trips with sledges or canoe. Later, he introduced the Piper Cub on balloon tires to regional geological surveys. He has organized and led four major aircraft-supported operations, and has initiated several

others led by associates. Colleagues enjoy his enthusiastic but relaxed manner, his unorthodox approach to problems, and his sense of humour. He has generously shared his data with several generations of scientists and has been an inspiration through his intense devotion to his profession. In his late fifties, he still is fit and ready for many more seasons of foot slogging, back-packing and fly camping that he seems to enjoy almost as much as the science itself.

Ray Thorsteinsson has many of the attributes of that great man after whom this Medal was named. Our Society honours itself by presenting this, its highest award, to a truly accomplished Canadian geologist. Sir William Logan would have approved.

Past Presidents' Medal (1977)

The 1977 recipient of the Past-Presidents' Medal was C R Barnes, professor and chairman of the Department of Earth Science at the University of Waterloo. The award was made in recognition of the research and scholarship by which Dr. Barnes has established himself as an international authority on Ordovician conodonts.

His work, which has been in the sectors of taxonomy, biostratigraphy, paleoecology, provincialism and internal ultrastructure, has been a major influence in the recognition now given those puzzling microfossils as being the most useful index fossils in determining relative time in Paleozoic marine sediments. The successful Special Paper No. 15 entitled 'Conodont Paleoecology' was edited by Dr. Barnes, resulting from a symposium which he organized at the Association's 1975 annual meeting in Waterloo.

Past Presidents' Medal (1979)

Charlotte Elizabeth Keen, an internationally known and respected geophysicist and leader in the study of Atlantic-type continental margins, was the 1979 recipient of the Past Presidents' Medal of the Geological Association of Canada.

Over the past two decades Dr. Keen has authored or co-authored numerous outstanding contributions based on her seismological and magnetic studies of the Scotian Shelf margin, Grand Banks, Baffin Bay and the Mid-Atlantic and Juan de Fuca Ridges. In these carefully carried out and well-reasoned studies she has demonstrated that the oceanic crust likely is anisotropic, that Baffin Bay is underlain by oceanic crust, and that magnetic lineations can be recognised in the Quiet Zone off eastern North America. All of these are major advances in our understanding of the evolution of the ocean floors. Currently she is head of the continental margins group at Atlantic Geoscience Centre, and in this capacity she shows a remarkable ability to make use of the wealth of diverse data available at A G C. This is illustrated by her exciting new work on the

subsidence and thermal history of the Atlantic Continental Margin. Using biostratigraphic and organic maturation data available from large numbers of oil exploration wells off the east coast, she showed that the observed time-temperature-subsidence history of the margin accords well with the predicted theoretical model of a cooling and contracting lithosphere. This is both a first in the field, and an indication of the direction in which second generation Atlantic-type continental margin studies will move, under the inspired leadership of Charlotte Keen and others of her calibre. Her enthusiasm for and dedication to the earth sciences is further demonstrated by the leadership and guidance that she gives unselfishly to Dalhousie University graduate students, and by the fact that she has been chief scientist or second scientist in command on 19 oceanographic cruises from Bedford Institute of Oceanography since 1965. Colleagues write of her influence and leadership in marine geophysics within The Atlantic Geoscience Centre and internationally; also of her modest and unassuming nature, despite the fact that at so young an age, she is clearly one of Canada's ablest and most respected geophysicists. GAC is honoured to be among those to recognize this brilliant young scientist and her work, and to wish her continued success.

Finances

The Financial Statement for the year ending December 31, 1978, prepared by the Association's auditors, was sent to all Fellows in April, 1979. The Association experienced a slight decrease of \$1,857 in income from the previous year. The members equity surplus fell from \$46,978, to \$45,121. Income from advertising and interest on investments was up slightly. Membership income fell by \$4,517, but the sale of publications rose by almost \$5,600, to a record high of almost \$35,000. The sale of publications now amounts to approximately 30% of the total income of the Association.

Efforts made by Council to reduce bad debt to the Association by suspending distribution of publications to members who had not paid their dues, resulted in a decrease of bad debt from almost \$6,000 in 1977 to slightly under \$2,000 in 1978. A further saving of approximately \$3,500 resulted from withholding distribution of the Canadian Journal of Earth Sciences to delinquent members.

The cost of the Logan Medal item increased principally as a result of the preparation of a new bilingual die, coupled with a slight rise in the price of gold. Postage and telegraph costs also increased by approximately 10% over the previous year. This was largely as a result of escalating governmental and telegraph charges, but also because of additional correspondence with the membership of the Association. Costs for *Geolog* also went up during the year, however, the single

largest item of increased expenditure was for secretarial costs at Waterloo. This was a result of the temporary employment of a third full time assistant at head office for much of the 1978 financial year.

Committee Activities

The business of the Association was conducted at Council Meetings held on October 26, 1978 at Toronto, on February 2nd, 1979 at Quebec City and on May 22nd, 1979 also at Quebec City.

The *Editorial Committee* under the chairmanship of W. G. E. Caldwell met three times during the year in association with the Council meetings. The *Canadian Journal of Earth Sciences*, edited by E. R. W. Neale and published by the National Research Council of Canada, continues to be the Association's main vehicle for the publication of topical papers. Almost the entire group of Associate Editors are fellows of the Association. Editor Neale constantly strives to ensure the closest possible liaison between GAC and the Council.

R. H. McNutt of McMaster University succeeded G. V. Middleton, also of McMaster University, as Editor of *Geoscience Canada* on January 1, 1979. The magazine will continue to be issued quarterly in essentially its present format. The series of feature articles on 'Facies Models' will terminate soon and be replaced by other series dealing with metallic mineral deposits and possibly, isotope geology. R. G. Walker of McMaster University has agreed to supervise the production of a reprint volume containing all the feature articles in the highly successful 'Facies Models' series. The Editorial Committee expects the volume to be of wide interest and to sell well; it will be inexpensively produced and should be available for purchase by undergraduate students and others, prior to the beginning of the 1979-80 university session.

Geolog, under the capable editorship of G. L. Williams of the Atlantic Geoscience Centre, has appeared regularly since the time of the last annual business meeting. Favourable comments from members suggest that the newsletter should continue in its present format and about its present size.

Special Paper 18, *Western and Arctic Biostratigraphy*, the Percival Sydney Warren Memorial volume, edited by C. R. Stelck and B. D. E. Chatterton of the University of Alberta, is currently available for purchase. Special Paper 19, *History of Concepts in Precambrian Geology*, the James Buckland Mawdsley Memorial volume, edited by W. O. Kupsch and W. A. S. Sarjeant of the University of Saskatchewan, should be available to members late this summer. Future special papers will include *The Geology of the Buchans Mine*, edited by E. A. Swanson of Asarco at Buchans (many of the papers in this volume will be marked as contributions to

the IGCP Program on Correlation of Caledonian Stratabound Sulphides); *Precambrian Sulphide Deposits*, the Howard Street Robinson Memorial volume, edited by R. D. Hutchinson of the University of Western Ontario, and containing the proceedings of the Robinson Symposium held during the last annual meeting; *The Crust of the Earth and Its Mineral Deposits*, a volume in honour of J. Tuzo Wilson, edited by D. W. Strangway of the University of Toronto, and containing the proceedings of a symposium of the same title held in Toronto in May, 1979; and *Major Lineaments of the Quebec Appalachians*, edited by P. St.-Julien and J. Béland of Université Laval and Université de Montréal respectively, from a symposium held at the current annual meeting.

The Association's Guidebook Editor, W. H. Mathews of the University of British Columbia, has recommended that the Association proceed with plans to prepare a popular guidebook on Toronto and district, and this undertaking has been approved by Council. The Toronto guidebook will be prepared concurrently with popular guidebooks to London and district and to Montreal and district. W. M. Tovell of the Royal Ontario Museum will prepare the Toronto guidebook.

The Editorial Committee wishes to record its indebtedness to the Natural Science and Engineering Research Council of Canada, to the Geological Survey of Canada, and various universities across the land which have continued to provide funds and other forms of support leading to a substantial reduction in cost to the Association of some of its publications.

The *Finance Committee* under the chairmanship of D. A. Barr has been responsible for the analysis of all aspects of the Association's finances for the recently past and current financial years. This has been necessary in order to project revenue and expenditures into the future, to ensure that GAC maintains adequate control of its finances. Projections indicate declining surpluses for the next two financial years, and Council is currently examining these trends with the objective of correcting potential problem areas. The Finance Committee also prepared a budget to guide the Association's finances during 1979. This budget was approved by Council at the February 2, 1979 meeting held in Quebec City.

The *Membership Committee* comprising J. H. Remick (Chairman), A. T. Avison, D. H. James, G. C. Milligan and C. R. Stelck, reviewed 152 membership forms during the year. 51 application forms are currently being processed.

Membership of the Geological Association now stands at 2,394 and the total numbers of each category are given at the start of this report. The figures represent the first re-

corded decline since the Association was founded in 1947. The current membership is approximately 240 below that recorded in the 1978 Secretary's Report, despite the addition of 152 new members elected since October 25, 1978

As mentioned in the last Secretary's Report a bilingual membership certificate for both Fellows and Associates has been printed, and copies of the certificate have been sent to old members of the Association who requested one. Members still wishing to receive their certificate of membership may obtain a copy by contacting the Association's Head Office in Waterloo. The certificate is automatically sent to all new members after their membership has been approved by the Fellows of the Association.

The GAC membership application form has been revised and is currently available for distribution and a new GAC information brochure in both English and French is available, hopefully to attract potential members to the Association. A revised edition of the Membership list should be available for GAC members later this year. Amendments to the Constitution will also necessitate the publication of a new Constitution and Bylaws booklet in both English and French sometime within the next year. As many of you will have noticed a section for donations was included on the 1979 dues form. Although this is not a tax deductible item, 71 Fellows and Associates contributed almost \$650., which the Association gratefully acknowledges. It is hoped that additional members may contribute to GAC in future years.

The 1979 dues form also included a section on employment affiliation. This breakdown is illustrated in Figure 1

- 505 members belong to the Mining and Oil industries.
- 409 members to Universities
- 285 members to Government (split approximately 50/50 between Federal and Provincial gov'ts.)
- 150 members classify themselves as consultants or contractors.
- 32 members are listed as 'other'

These figures represent 1,381 members (55% of GAC membership) - approximately 1,000 members did not respond to the employment affiliation breakdown and it is to be hoped that they will reply on the 1980 dues notice.

A breakdown of current membership in the respective GAC divisions is given in Table 1

In early May reminders about dues payments were sent to all GAC members who had not renewed their 1979 membership in the Association, and an active membership drive to solicit new Fellows and Associates is currently underway in Toronto and Vancouver.

As the membership is aware, a proposed amendment to the Constitution was circu-

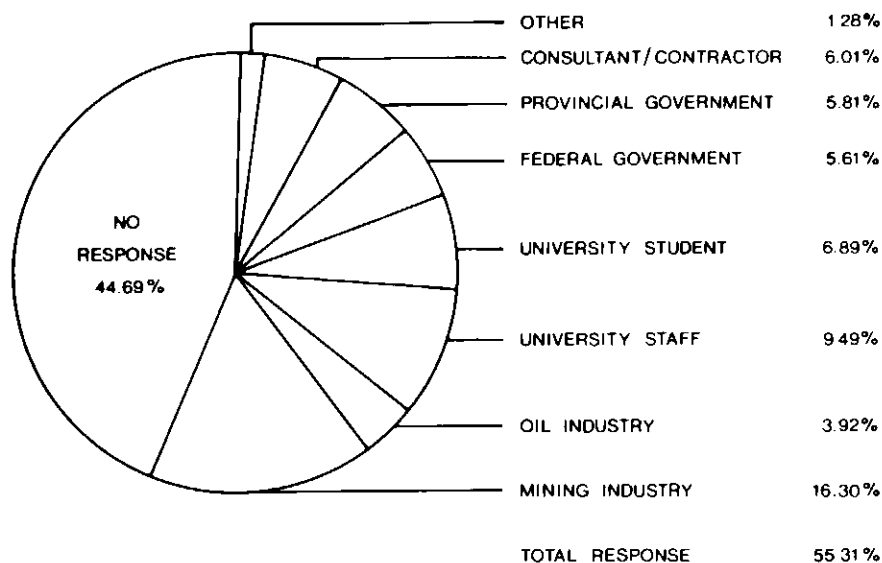


Figure 1
Employment affiliation of GAC membership.

Table 1

Canadian Geophysical Union	119	(down by 9 from 1978)
Environmental Earth Sciences	136	(down by 44)
Mineral Deposits	310	
Paleontology	64	(down by 10)
Precambrian	201	(up by 8)
Structural Geology	97	(down by 21)
Volcanology	162	(up by 10)

lated to all Fellows to ask their approval for dues payments from retired members. If the amendment is passed Council has requested that it should become effective January 1, 1980 and that it should not apply retroactively.

A word of explanation concerning this amendment is probably long overdue. Council has been concerned by the reaction of a number of members to the forementioned amendment. It was not the intention of Council to 'gouge old age pensioners' as one Fellow put it, but to address the problem of future years. Currently the Association has 66 retired members representing a capital outlay of approximately \$2,000 each year to cover the publications that these members are presently receiving free of charge. If one looks at projections of members in future years we can see that even assuming costs remain the same, and publications sent retired members remain at \$30.00 per person, substantial increases are in sight.

In 1980 there will be (approximately) 66 retired members in the Association (combined categories A, B, C) and the cost of providing free publications will amount to about \$2,000.00 each year. (See Fig. 2)

By 1985 the 66 members will decline to approximately 55 (based on projected mortality rate) but a further 100 members will

have reached 65 years. About 75 of the 100 will qualify for 'Retired Fellow' status - the other 25 will not satisfy the Constitutional requirements. Therefore by 1985 about 130 members will be in the retired category (A, B, C and D) and the cost of publications will rise to \$4,000.00 per annum.

By 1990 mortality will have reduced these numbers from 130 to about 100, but category E will reach the 65 year mark, and this adds, potentially, 150 new Retired Fellows. Probably 40 of these Fellows will not satisfy Constitutional requirements, but 110 will. The Retired Fellow group will increase to about 210 and cost to the Association for free publications will rise to \$6,500.00 each year.

Obviously inflations will drastically increase these projected figures, possibly as much as 100% by 1990. With the data presented above Council acted to halt what could become a crippling financial burden in future years.

The Program Committee, made up of J. W. Kramers (Chairman), V. F. Hollister, J. J. Fawcett, R. Ledoux, J. C. Smith, F. A. Campbell and P. Bayliss (MAC representative), organized the fourth GAC National Lecture Tour by Chris Barnes of the University of Waterloo, the fourth winner of the

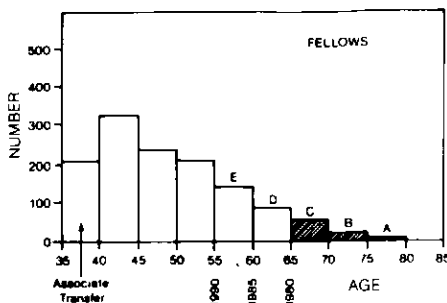


Figure 2
Projection of age categories for Retired Fellow category (1980-1990).

GAC Past Presidents' Medal During September/October 1978, Chris spoke on 'Ordovician Paleogeography and Conodont Biostratigraphy of Canada' to GAC members in Corner Brook (Nfld), Halifax, Fredericton, Montreal, Toronto, Ottawa, Winnipeg, Saskatoon, Edmonton, Vancouver and Victoria. Chris' talk was enthusiastically received all across Canada. The National Lecture Tour will be continued next year (January 1980) by Chris Brooks of the University of Montreal, another GAC Past Presidents' Medallist, whose subject will be 'Crust-Mantle Evolution: an Isotopic Viewpoint'. Chris will make eleven stops across Canada, at St. John's, Halifax, Fredericton, Montreal, Toronto, Ottawa, Winnipeg, Saskatoon, Edmonton, Victoria and Vancouver.

The *Robinson Bequest Committee* met on April 20th and October 22nd in 1978. On April 20th it was agreed to recommend to Council that a grant of \$5,000 be made towards the production of a 'Robinson Volume' on the topic of 'Precambrian Sulphide Deposits in Canada'. At the October 22nd meeting it was agreed to recommend additional support up to a maximum of \$5,000 if needed in the form of a loan repayable out of profits on the sale of the publication only if such occurred. This potential allocation of funds replaced a proposed grant to the 'History of Concepts of Precambrian Geology' which the Committee considered less suitable for support by this particular Bequest.

At a meeting held on April 6th, 1979, it was decided to recommend a grant of \$3,500 to Dr. N. T. Arndt to finance a mineral deposits session at a conference on komatites to be held in August 1979. This session might be called the 'Robinson Session'.

It was also agreed to recommend a grant of between \$3,000 and \$6,000 (depending on circumstances) to one or more researchers on preparing reviews of publications in the general field of 'Precambrian Geology and Metal Mining' with emphasis on Canadian deposits. This had been proposed by Dr. Marcel Vallee. It was proposed that a notice might be put in *Geolog* to find if anyone was

already undertaking something along this line which might be supported or partially financed by the Fund.

Only one request has been received to date in 1979 which was for financial support for the Western Inter-University Geological Conference. This was not recommended as it would have been difficult to support this conference and then to refuse support for similar conferences at other universities due to the limited resources of the Fund.

The Secretary of the Robinson Bequest Committee, Professor M. M. Kimberley, submitted his resignation as he is moving shortly to the University of North Carolina.

The *Public Information Committee* chaired by Norah J. Allman has distributed information on the Robinson bequest and is currently endeavouring to compile a list of Canadian geoscientists who might be willing to talk to the different forms of news media about subjects of geological interest and concern.

The *Education Committee* has a new chairman (A. F. King) and is attempting to circulate copies of 'The Newfoundland Journal of Geological Education' to selected High Schools, University Libraries and Teacher training institutions across Canada.

The *Special Projects Committee* is investigating the possibility of discipline breakdown for the new Membership Booklet and will be responsible for updating the revisions to the Association's Constitution.

Sections and Divisions

The *Newfoundland Section* year's activities commenced with the annual fall meeting, held this year in Grand Falls. About 40 people attended and heard a variety of presentations on Newfoundland and Labrador geology. The constitution was amended and a copy sent to the parent body for approval.

The meeting was followed by a two-day field trip to examine the geology of the Avalon and Gander zones in the Baie d'Espoir region of Newfoundland's south coast.

During the year, two issues of the 'Melange', a quarterly newsletter which reports on geoscience and geological activities in the Province, and two issues of the Newfoundland Journal of Geological Education were published. The Journal which is a rapidly expanding publication aims to present semi-technical accounts of original research in the Province to senior high school and first year university students. The Journal is currently distributed free of charge to all Newfoundland high schools, all Canadian geoscience departments, all National and Provincial libraries and is also available on a subscription basis.

The spring annual meeting was held on March 9, 1979. It was highlighted by a technical session on 'Geochronological

Studies in the Appalachians and the Precambrian of Labrador'. Speakers included local geologists and Canadian and American geochronologists. At the annual dinner a media award was presented to a reporter (Tom Quilliam), a newspaper (The Evening Telegram) and a radio/television station (CBC) for outstanding coverage of geoscience activities. Graham Williams, editor of *Geolog*, was the after-dinner speaker.

The *Winnipeg Section* held meetings with guest speakers once each month. At the annual picnic held on Logan Day, Dr. George Brownwell represented the 'Logans of Today' in Manitoba. An evening symposium entitled 'Does the Broken Hill District of Australia have a Counterpart in the Sedimentary Gneiss Complexes of the Churchill Province?' was exceptionally well attended by both local and out-of-town geologists. The year's activities were rounded off with a joint CIM-GAC dinner meeting.

The *Edmonton Geological Society* had monthly meetings on such diverse geological topics as Oxygen isotopes, Seamounts, Paleogeography, Cretaceous stratigraphy and China (the country) between October 1978 and April 1979. An Ed. GEO workshop for 30 Earth Science teachers was held in Edmonton in early April, followed one week later by the Edmonton Geological Society Banquet and Annual meeting.

Cordilleran Section - A Logan Day celebration, eleven evening meetings, a two-day Symposium, five Field Guide reprints, and a distinguished addition to Honorary Membership, were highlights of the Cordilleran Section in 1978-79.

Logan Day, masterminded by Dick Templeman Kluit, consisted of a musical cruise up Indian Arm and out into the Strait of Georgia. A barbecue and bush-gamesmanship competitions were held on land during a docking at Belcarra Park. The Logan Cup was awarded to Team Tahtsa.

Evening Lectures were held at the Georgia Hotel, usually at 8 p.m. on Thursdays. They featured excellent speakers from both hemispheres of the globe and covered the geology of base and precious metals, fossil fuels, paleogeography, paleoecology, and metamorphism.

The February 9 and 10 Symposium theme 'Evolution of the Cratonic Margin and Related Mineral Deposits' drew about 400 delegates and proved to be a technical and financial success.

During the course of the year, five Field Guidebooks on the geology of the Lower Mainland, Vancouver Island, and Southern B.C. were reprinted to meet a continuing demand. These guides were originally published for the 1977 GAC-GSA-SEG-MAC meeting in Vancouver. Guidebook number 7,

8, 9, 12 and 13 were reprinted, and further information regarding all Guidebooks may be obtained from Miss Mary Akehurst, 6th Floor, 100 West Pender Street, Vancouver, B.C. V6B 1R8

Future plans include the publication of a Geological Highway Map of British Columbia. Drafting and compilation are already in progress thanks to the efforts of W. McMillan (BCDM)

A change in dues collection will occur for the 1979-80 period. By agreement with representatives of the national GAC, the Cordilleran Section will resume collection of its own membership dues

The Divisions of the Association are all functioning (with varying degrees of activity) and reports concerning their progress have been printed in *Geolog.*

Other Business

The Youth Science Fair prize awarded by GAC, went to Larry Rymes and Gilles Taylor for a project entitled 'Possible Hazards of Aluminum Wiring'. The judge acting on behalf of the Association was L. M. Cumming of the Department of Energy Mines and Resources.

Publications

The period between November 1978 and May 1979 has seen the publication of Special Paper 18 'Western and Arctic Canadian Biostratigraphy', the Percival Sydney Warren Memorial Volume, edited by C. R. Steick and B. D. E. Chatterton. Special Paper 19 'History of Concepts of Precambrian Geology' is expected to be published in the summer of 1979.

The sale of publications from October 1, 1978 to April 30, 1979 and stocks on hand are given below.

	Copies Sold	Copies on Hand
Proceedings		
Vol. 21	2	177
Vol. 22	5	140
Vol. 23	5	144
Vol. 24 I	2	44
Vol. 24 II	1	4
Vol. 25	3	257
Special Papers		
# 8	126	1,354
# 9	14	32
#10	51	0
#11	117	453
#12	36	1,012
#13	32	974
#14	472	276
#15	67	230
#16	403	1,113
#17	476	426

Geoscience Canada

Vol. 1 #1	10	214
#2	10	22
#3	9	365
#4	10	168
Vol. 2 #2	6	89
#4	7	233
Vol. 3 #1	7	18
#2	7	330
#3	7	176
#4	19	273
Vol. 4 #1	43	411
#2	13	158
#3	313	328
#4	44	506
Vol. 5 #1	103	892
#2	97	188
#3	56	817
#4	2,376	1,021
Vol. 6 #1	2,399	1,021

Inform. Circ.

#1	3	254
#2	8	954
#3	71	227

Guide Book

67	14	305
70 #5	5	25
#6	6	18

List of members attending the Business Meeting held at Laval University, Quebec City, Quebec, Thursday, May 24, 1979

G. O. Allard	H. D. Meyn
E. C. Appleyard	G. V. Middleton
L. D. Ayres	A. V. Morgan
H. Baadsgaard	H. Morris
C. R. Barnes	L. Moyd
D. A. Barr	R. C. Mummery
H. R. Belyea	G. S. Murthy
C. E. Blackburn	F. R. W. Neale
T. E. Bolton	G. S. Nowlan
R. A. Burwash	W. A. Padgham
L. J. Cabri	E. F. Pattison
W. G. E. Caldwell	J. Pirie
F. H. A. Campbell	L. P. Purcell
C. Carbonneau	J. H. Remick
B. D. E. Chatterton	S. Roscoe
W. R. Cowan	R. D. Russell
J. H. Crocket	B. R. Rust
J. M. Duke	H. P. Schwarcz
W. A. Gibbins	D. Skevington
G. A. Gross	C. W. Stearn
M. L. Halladay	J. S. Stevenson
W. W. Hutchinson	L. Stevenson
P. M. Kavanagh	D. W. Strangway
C. E. Keen	D. F. Strong
J. W. Kerr	A. Sutherland Brown
A. F. King	W. M. Tovell
J. Lajoie	M. Vallee
R. Lambert	R. H. Wallis
A. J. Legault	F. J. Wicks
R. Ludvigsen	G. L. Williams
S. B. Lumbers	C. G. Winder
R. H. MacNeill	
R. H. McNutt	

Total number of members attending the Meeting	64
Total number of members represented by proxy	495
Total	559

Acknowledgements

I should like to express my gratitude to Mrs. H. Sokoloskie and Mrs. N. Riley, both full-time employees of the Association and to Mrs. B. Pulham who was at Waterloo for most of 1978. Without their assistance and abilities my task would have been considerably more difficult. I would also like to express my thanks to R. G. Roberts for acting as Secretary-Treasurer of the Association during my period of sabbatical leave.

Respectfully submitted
Alan V. Morgan
Department of Earth Sciences
University of Waterloo
Waterloo, Ontario

Geoscience Canada appears four times per year, in March, June, September and December. Copy for ads should reach the advertising manager by the 8th of the month, two months preceding publication (e.g. by April 8 for June issue).

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Notice to Contributors

The deadlines for submission of MS for *Geoscience Canada* are: Issue no. 1, Nov. 30; Issue no. 2, Feb. 28; Issue no. 3, May 31; Issue no. 4, August 31. Contributions and letters to the editor discussing topics raised in previous issues are welcomed.

A copy of the Guide to Authors may be obtained from the Editor or from one of the Associate Editors.