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Secretary's Report
May 1980

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Secretary's Report

May 1980

Membership

Membership of the Geological Association as May 8, 1980 consists of:

Honorary Fellows	6
Life Fellows	5
Retired Fellows	63
Fellows	1,635
Associates	830
	2,539
Corporate Members	81
	2,620

Membership of the Geological Association has again risen following the sharp decline experienced during 1978, although it is still short of the record high of 2,728 reported in the 1976 Secretary's Report. The geographic distribution of members in the Association is as follows:

Newfoundland	84
Nova Scotia	89
New Brunswick	50
Quebec	292
Ontario	959
Manitoba	53
Saskatchewan	71
Alberta	337
British Columbia	382
NWT and Yukon	24
Prince Edward Island	—
United States	169
Australia-New Zealand	18
South and Central America	12
Africa and Asia	19
Europe	61

The 199 members elected since May 24, 1979 are as follows:

Fellows:

Anderson, D.
Atkinson, J. R.
Barbour, D. M.
Beard, R.
Beckett, R. J.
Bonneau, J.
Borradaile, G. J.
Bouffard, D. A. C.
Bourne, J. H.
Boyle, R. S.
Breaks, F. W.
Brisbin, W. C.
Buckley, D. E.
Clouthier, G. A.
Coad, P. R.
Coker, W. B.
Copper, P.
Covello, L.
Dalrymple, R. W.
Deptuck, R.
Dredge, L. A.
Drury, M. J.
Duckworth, P. B.
Duff, P. M. D.
Dupre, D. G.
Elias, R. J.
Fletcher, D. M.
Fraser, R. J.
Gagnon, G.
Gale, R. E.
Gélinas, L.
Ghosh, M. K.
Gobeil, A.
Goulet, N.
Healey, C. M.
Hein, F. J.
Horst, R. E.
Howkins, J. B.
Hureau, A.
Johns, G. W.
Jones, B.
Killey, D.
Kuan, S.
Kwan, P. L. K.
Lennan, W. B.
Ludman, A.
Martin, E. L. J.
McKenzie, C. B.
Michna, P. D.
Muir, T. L.
Mustard, J. W.
Newman, W. S.
Opalinski, P. R.
Pauwels, A. M. L.
Rotzien, J. L.
Sander, G. W.
Sangster, A. L.
Savigny, K. W.
Sheehan, P. M.
Shegelski, R. J.
Smith, M. D.
Squair, H.
Sturm, A. G.
Suczek, C. A.
Tammam, A.
Tammemagi, H. Y.
Tanaka, V. A.
Taylor, R. P.
Tolbert, R. S.
Vatin-Perignon, N.
Wardle, R.
Wellmer, F. W.
Zodrow, E. L.

Associates

Alie, R.
Armstrong, D. K.
Babineau, J. G.
Belanger, C. E.
Belanger, Y.
Bland, J.
Bloy, G. R.
Burgess, G. H.
Bussieres, L.
Cannon, T. C.
Caron, A.
Chamois, P.
Chenard, L.
Christmann, H.
Clark, I. A.
Coish, R. A.
Cordsen, A.
Couture, B.
Dallimore, S. R.
Davis, P. M.
Davision, J. G.
Denton, S.
Desrosiers, R.
Dessureault, M.
Dickin, R. C.
Dix, G. R.
Doyle, E.
Duffield, S. L.
Duffett, T. E.
Eadie, E. T.
Ferguson, L. J.
Ferry, A. L. H.
Fowler, S. P
Fyon, J. A.
Galley, A.
Gauthier-Coulloudon, L.
Gibson, H. L.
Graham, D. F.
Grant, A. H.
Hachkowski, B. M
Halde, J.
Harlamow, D. A.
Harrison, R.
Haskett, W. J
Harvey, S. E.
Heaman, L. M.
Henderson, D.
Hildebrand, R. S.
Howard, A. E
Hudon, P.
Jago, B. C.
Jamieson, G. R.
Johnson, M. R.
Jonasson, R. E.
Juras, S J
Karl, S.
Kavanagh, P. E.
Keech, C G
King, J. E.
Kirkland, I K.
Klappa, C. F.
Korzeniowski, P. W.
Kotila, B W.
Kowalchuk, K. K.
Kozlowski, M. J.
Kwiecien, B. B. S.
Lacroix, R.
Lafond, J. M.
Laracy, P. J.
Lavery, M. E.
Leckie, D.
Lefebvre, A.
Lefebvre, R.
Lefebvre, Y.
LeFrancois, P.
Lessard, D.
Linnen, R.
Love, D. A.
MacNae, J. C.
McAuley, J. B.
McCaig, A. M.
Melchin, M. J.
Michaud, Y.
Mohamad, D.
Moodie, J. S.
Morrice, M. G.
Nadeau, J.
Newman, P. H.
Niggemann, K. V.
Nutter, G. E.
Pacor, P.
Parker, B. D. C.
Pautler, J. M.
Pelletier, M.
Perron, L.
Plint-Geberl, H. A.
Polan, K. P.
Pope, C. S.
Prus, A.
Rannie, E. H.
Richardson, J.
Saunders, C. M.
Saunders, G. C.
Sawicki, D. W.
Simigian, S. L.
Skwara Woolf, T.
Slivitsky, A.
Spence, G. D.
Steeves, R. R
Stephenson, L.
Steward, R. D.
Stritychuk, J. M
Sutherland, I. G.
Taylor, G A.
Theriault, F.
Thomas, D J
Torske, T.
Ulriksen, C E
Van Katwyk, P.
Vincent, G.
Wagner, P. A
Warner, B. G.
Werniuk, G. M
Wolf, R R.
Wright, D. F
Wright, M. E.

Transfer from Associate to Fellow:

Debicki, R. L.
Donaghy, T. J.
Elton, J. J
Graham, W. F.
Malpas, J. G.
Nordin, G. D.
Suen, C-Y. J.
Tuach, J.
Walsh, D. F.
Waychison, M M.
Wolff, J. M.

An additional 30 applications for membership are presently being processed by the Secretary's office. Adjustments in the total membership resulted from the following:

Resigned 24
Deceased 7

Resigned

Becker, R. C.
Brown, P. R.
Burk, C. F.
Clews, D. R.
Dakin, R A.
Forester, C. B.
Giess, J P.
Gillanders, E. B.
Hodgins, J. A
Jones, W A.
Katz, M. B.
Lang, H B.
Markl, W.
McDonald, B. C.
Pepler, S W E
Sander, G. W.
Savage, W. S.
Sturm, A. G
Sund, J. O
Trigg, D F
Walchuk, I. K.
Walker, M.
Walthall, W. F
Wetmore, D L.

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

Deceased

Brownell, G M.
Deland, A N
Douglas, R J W.
Harrigan, D. A. B
Jull, R. K.
MacKeracher, D M
Perry, D G
Velikanje, R. S
Wilson, H. S

Logan Medal

The 1980 recipient of the Logan Medal, the Geological Association of Canada's highest award, was Dr. G. V. Middleton, of the Department of Geology at McMaster University.

Gerard V. Middleton was born in South Africa, educated at the Imperial College of Science and Technology, and worked briefly with industry before becoming lecturer at McMaster University in 1955. He advanced to professor by 1967 and has twice served as Chairman of the Department of Geology at that university.

Dr. Middleton's active research career, starting in 1952, has resulted in over 50 scientific articles, books, and short course notes on a wide variety of sedimentological, stratigraphic, paleontological and geomathematical subjects. Prominent among his studies has been the blending of hydraulic and geological studies of ancient and modern sediments. These could be said to start with experimental models on the types and origins of grading in turbidites and are presently continuing in studies of tidal sediments in the Bay of Fundy. Many of these papers have been bench marks of lasting influence for they admirably combine field, laboratory, and mathematical approaches. He not only leads with his own work but has organized numerous symposia and edited their proceedings. To a considerable degree the field of paleohydraulic studies has developed from research in which he had a major role.

A facet of importance in his career is his role as an editor. He has served as associate editor of *Sedimentology* during 1967-72, as GAC scientific editor during 1972-74, and most importantly for us, as initiator and first editor of *Geoscience Canada*. This journal fills a void left by the cessation of *GAC Proceedings* and is acknowledged widely as a scientific and aesthetic success.

His other services to geoscience in Canada include membership of the NRC grants committee as well as being organizer of field excursions and short courses. He has been instrumental in bringing the International Association of Sedimentology to Canada and will act as Chairman of their 11th International Congress to be held in 1982.

Clearly Gerard V. Middleton is well suited to join the illustrious company of Logan Medallists.

Past Presidents' Medal

The 1980 recipient of the Past Presidents' Medal was Dr. D. F. Strong, of the Department of Geology, Memorial University, Newfoundland.

David F. Strong was born at Botwood in the heart of the Central Mobile Belt of Newfoundland and spent his early years among the pillow lavas and ophiolites of Notre Dame Bay. After a couple of years he moved to the Avalon Zone where he grew up and was formally educated at St. John's. In 1965 he graduated from Memorial University of Newfoundland with a B.Sc. degree in Geology. After receiving a M.Sc. degree in 1967 from Lehigh University, Pennsylvania he moved to the University of Edinburgh where he became interested in the geochemistry and petrology of volcanic rocks. He graduated with a Ph.D. degree in 1970 having studied the recent volcanic area of the Comoro Islands, western Indian Ocean.

In 1970 he joined the geology faculty at Memorial University of Newfoundland and returned to his birthplace among the pillow lavas and ophiolites of Notre Dame Bay. His knowledge of techniques and concepts acquired during his early research was applied most fruitfully to volcanic, ophiolitic and other igneous rocks of the Northern Appalachians. A natural outgrowth of these studies was an interest in the origin of metallic mineral deposits within ancient oceanic regimes and in the past few years Dr. Strong has emerged as one of the leaders in relating metallogeny to plate tectonic theory. The extensive data collected in these studies has also contributed greatly to our knowledge of mountain building processes and, particularly, the evolution of the Appalachian mountain belt.

Dave has published his results promptly in leading national and international journals. They are now being widely cited and recently have elicited increasing comments and inquiries from industrial scientists in addition to the academic interest that has prevailed throughout.

He has received many nominations, citations and awards in recognition of his scientific merits. Some of these are: recipient of the APICS award as Outstanding Young Atlantic Scientist of 1974; recipient of the NRC's Steacie Memorial Fellowship in 1975, the first geoscientist in Canada to do so; organizer, chairman and participant of an international symposium on Plate Tectonics and Metallogeny and editor of symposium papers published by G.A.C.; recipient of grant to conduct a NATO Advanced Studies Institute in Newfound-

land; invitations as keynote speaker to a number of national and international meetings.

David F. Strong is destined to become a luminary in Canadian science and in recognition of his contributions to the understanding of metallogeny and plate tectonics in the Northern Appalachians, he has been selected this year for the G.A.C. Past Presidents Medal.

Finances

The Financial Statement for the year ending December 31, 1979, prepared by the Association's auditors, was sent to all Fellows in April, 1980. The Association experienced an increase of slightly over $4,000. in income from the previous year. The members equity surplus rose from $45,121. to $45,603. The increase in revenues resulted largely from $20,000. in dues received from members and $24,000. surplus as a result of the highly successful Toronto '78 Meeting which was held in conjunction with the Geological Society of America. A further slight saving to the Association resulted from handling the Association's business with the aid of two full-time secretaries at Waterloo instead of the two full-time and one part-time secretary present during 1978. A further reduction in the amount of bad debt owing to the Association has also resulted in some savings of lost revenues. The new methods of billing members of the Association have resulted in a considerable improvement in this area as reflected in Fig. 1.

The largest increases in expenditures resulted from two major items. The cost of the Canadian Journal of Earth Sciences went up by $12,000. and the cost of publications rose substantially by some $34,000. The efforts being made by GAC Editorial Committee Council are reflected in this latter sum; these high expenditures are largely due to the production of the first Geoscience Canada Reprint Volume, *Facies Models*, which will be commented upon later. The second large item of expenditure has been the continuing expansion of the Special Paper series, which has also been highly successful. Because of the cyclic production of Special Papers and the initiation of the Reprint Volume series, expenditures are in excess of income for the year ending December 31, 1979. However, the Secretary-Treasurer wishes to point out that *Facies Models* has been extremely successful and that the sales of the Special Papers have also been exceptionally good. The cyclicity in these figures will be reflected in the year-end audit statement for 1980.

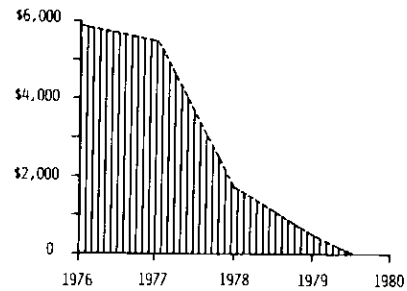

Figure 1: *Reduction in Bad Debt to the Association 1976-1980.*

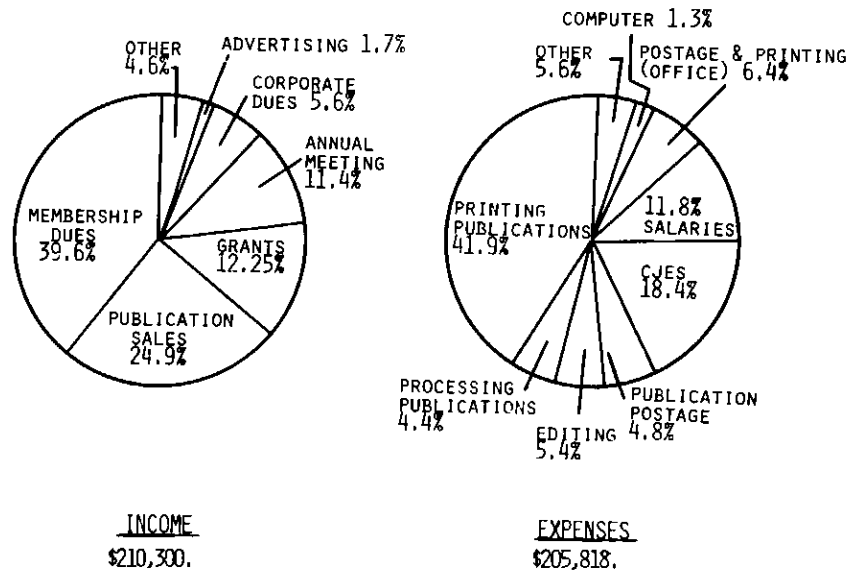

Figure 2: *Statement of Income and Expenses of the Association.*

Sales of publications of the Association have now passed the $52,000. mark and as such represented almost 25% of the income of the Association during 1979. The increase in computer expenses by almost 100% between 1978 and 1979 was a reflection of the third Membership Booklet of the Association which was produced during 1979. (See Fig. 2)

Committee Activities

The business of the Association was conducted at Council Meetings held on May 24, 1979 in Quebec City, on October 12, 1979 in Victoria, on February 16, 1980 in Halifax, N.S., and May 19, 1980 also in Halifax.

The *Editorial Committee*, under the guidance of Managing Editor, Maureen Czerneda, has met three times since the last Meeting in Quebec. Council has appointed J. W. Kramers of the Geology Division of the Alberta Research Council to become Chairman of the committee following the Halifax meeting; he succeeds W. G. E. Caldwell who has held the position for five years, and Maureen Czerneda who has been acting chairman during the current year.

Geoscience Canada, under the capable editorship of R. H. McNutt, Department of Geology, McMaster University, has appeared at regular quarterly intervals throughout the last year. Refereeing procedures for the article section were introduced at the beginning of 1980. Members of the Association are encouraged by the Editorial Committee to submit short original papers and topical reviews for publication in *Geoscience Canada*.

The first of the *Geoscience Canada* Reprints series, *Facies Models*, was published in August 1979 in time for the new university session. The demand for the volume was so great that it had to be reprinted in January 1980 and has now sold nearly 5,500 copies in eight months. The Editorial Committee records its gratitude to editor R. G. Walker, Department of Geology, McMaster University, for

compiling and guiding the sales of this most successful volume. A new series of reviews of the principal kinds of ore deposits has now begun to appear in *Geoscience Canada;* this series is planned as a successor to the *Facies Models* series.

The newsletter, *Geolog,* has continued to thrive in the last year, due in large measure to the outstanding efforts of editor G. L. Williams, of the Atlantic Geoscience Centre, Halifax; it too has appeared at regular quarterly intervals.

Special Paper 18 - *Western and Arctic Canadian Biostratigraphy,* the P. S. Warren Memorial Volume, edited by C. R. Stelck and B. D. E. Chatterton appeared about the time of the last annual meeting in Quebec. Since then, Special Paper 19, *History of Concepts in Precambrian Geology,* the J. B. Mawdsley Memorial Volume, edited by W. O. Kupsch and W. A. S. Sarjeant has been released. Two other Special Papers are in press: *The Continental Crust and Its Mineral Deposits,* a volume in honour of J. Tuzo Wilson, edited by D. W. Strangway, will be Special Paper 20, and *Cretaceous Rocks and Their Foraminifera in the Manitoba Escarpment,* by D. H. McNeil and W. G. E. Caldwell, will be Special Paper 21. Other Special Papers in various states of readiness include *The Buchans Mine of Newfoundland,* edited by E. A. Swanson, D. F. Strong, and J. G. Thurlow; *Major Sulphide Deposits of Canada and Environs,* the H. S. Robinson Memorial Volume, edited by R. W. Hutchinson; and *Major Structures of the Quebec Appalachians,* edited by Pierre St. Julien and Jacques Béland. Still other special papers are being compiled and planned.

There have been delays in the production of a number of planned popular guide books to important areas of Canada, but guide-book editor W. H. Mathews hopes for marked progress in the latter part of the current year. Guide books to three urban areas - London (Ontario), Montreal, and Toronto are being prepared.

The principal medium for the publication of original research papers by members of the Association continues to be the NRC - sponsored *Canadian Journal of Earth Sciences.* Almost all associate editors come from the ranks of the Association. Editor E. R. W. Neale retired from his position in December 1979 and has been succeeded by M. E. Evans. The Editorial Committee wishes to commend retiring editor Neale not only for his superb work in elevating the stature of this now prestigous journal, but for his pains to promote the closest possible ties between the journal and the Association. The Committee welcomes editor Evans and looks forward to a continuation of the close liaison of past years.

The Editorial Committee and Council wish to record their indebtedness to various agencies for the support they have received towards publications in the last year; these agencies include the Canadian Geological Foundation, the Geological Survey of Canada, and the Natural Sciences and Engineering Research Council of Canada.

The Finance Committee under the chairmanship of D. A. Barr has been responsible for the preparation of the budget designed to guide GAC's financial affairs during 1980. The budget was approved by Council at its 114th meeting held in Halifax on February 16, 1980. Increasing costs of production for the Canadian Journal of Earth Sciences, coupled with inflationary trends which affect all areas of operating expenses of the Association will necessitate a dues increase in the 1981 financial year. Consideration was also given to a study of GAC Annual Meeting expenses as a guide to the current split of proceeds or deficits between GAC and the Mineralogical Association of Canada.

The Geological Association's honorary solicitor, C. R. Archibald, Q.C., was informed that Council had decided the Geological Association should proceed with Incorporation with the objective of having this accomplished as expeditiously as possible, hopefully at the Annual Meeting in May.

Council has been increasingly concerned about the potential for major law suits directed against the Association (and hence the officers of the Association) should there be some type of accident connected with the activities of GAC, for example, a fatality on a field trip. The purpose of incorporation is largely to limit the liability of the officers of the Association should such an incident arise in future years. The Association was also informed by the honorary solicitor that possible revisions of the Incorporations Act, now before Parliament, might allow certain legacies to be made to the Association in a tax-free category. The somewhat complex wording of the motion put before the members for the mail ballot reflected a desire to cover all of the activities of the Association should the act be passed in the near future. The motion to proceed with incorporation of the Geological Association of Canada was passed by a vote of 645 affirmative to 16 negative.

The Finance Committee, acting on behalf of the Howard Street Robinson Account, reviewed the portfolio and arranged for the sale of certain shares, the proceeds of which were invested in short term deposits.

The Membership Committee, chaired by J. H. Remick and including A. T. Avison, D. H. James, and J. G. Malpas reviewed some 275 membership forms during the year. One hundred and ninety-nine members were elected with 11 transfers, and the remaining application forms are currently being processed. Membership of the Association now stands at 2,620 and the total numbers of each category of membership are given at the start of the Secretary's Report. The third edition of the Membership Address list in booklet form was mailed to members in January 1980. A year-end supplement will be mailed out at the end of 1980 or early in 1981.

A bilingual introduction to the Association's periodic listing of applications for membership was submitted to Council and approved at the February Meeting in Halifax.

A section for donations was included on the 1980 dues form. Although this is not a tax deductable item, 77 Fellows and Associates contributed $766.87 which the Association gratefully acknowledges. In 1979, the first year a section for donations was included on the dues form, 71 members contributed almost $650. It is hoped that additional members may contribute to GAC in future years.

The 1980 dues form also included a section on employment affiliation. The response by GAC members to the breakdown of the affiliations was encouraging with over 300 members more responding in 1980 than in 1979. From these figures it would appear that of those reponding 624 were employed by the mining and oil industries, 458 members belong to universities, 344 members are employed by Federal and Provincial governments (broken down approximately 50/50), 185 members classify themselves as consultants or contractors and 72 members specified 'other' types of geological employment.

Although these figures represent 1,683 members of the Association, it should be noted that approximately 1,000 members still have not put down any affiliation and it is hoped that they will do so in 1981. These figures assist Council in finding out where Fellows and Associates of the Association work within the geological profession.

A breakdown of current membership in respect to the GAC Divisions is given in Table I and it is encouraging to see that all of the GAC Divisions show an increase in membership between 1979 and 1980.

Table 1 *Membership of GAC Divisions*

Canadian Geophysical Union (up by 14 from 1979)	133
Environmental Earth Sciences (up by 29)	165
Mineral Deposits (up by 235)	545
Paleontology (up by 14)	78
Precambrian (up by 32)	233
Structural Geology (up by 12)	109
Volcanology (up by 36)	198

The Programme Committee chaired by R. S. Harrison organized the 5th National GAC Lecture Tour by Dr. C. Brooks of the University of Montreal. Dr. Brooks' tour was undertaken in January and February of 1980 because prior commitments had precluded the tour during the previous Fall. Dr. Brooks' address 'Crust-Mantle Evolution: an Isotopic Viewpoint', was delivered in eleven cities coast to coast. These included St. John's, Halifax, Fredericton, Montreal, Ottawa, Toronto, Winnipeg, Saskatoon, Edmonton, Vancouver, and Victoria. Preliminary planning is currently underway for the 1980 to 1981 Lecture Tour to be given by Dr. Charlotte Keen of the Atlantic Geoscience Centre, the 1979 recipient of the Past Presidents' Medal.

The GAC/MAC Annual Meeting Programme Manual, initially compiled by R. W. Macqueen, is presently being modified and updated in preparation for distribution to those individuals involved in the organization of the national meetings of the Association.

Other activities of the Programme Committee have largely revolved around serving as a clearing house of information relevant to present and future meetings.

The Robinson Committee, chaired by P. M. Kavanagh and consisting of R. Assad, L. D. Ayres, T. J. Bottrill and A. C. Colvine held discussions in 1979 and 1980 and met on the 19th March, 1980 to consider requests for funds from the Howard Street Robinson bequest.

Following the recommendation of the Committee, and the approval of Council, a grant of $2,000. was made to the Yellowknife Gold Workshop. Following upon the proviso established by Council the organizers of the Workshop have submitted an extended conference report to be published in *Geoscience Canada.*

A number of other requests have been discussed by the Committee with recommendations made to GAC Council for approval of certain of these requests. The result of these deliberations will be made public when individual requests are approved.

The Public Information Committee chaired by Norah J. Allman has had a relatively quiet year. It is investigating ways of increasing public knowledge of the earth sciences by establishing a network of contacts in the geological community for the media across the country. The committee is also arranging to make available information about the Association, with lists of activities and publications, at the annual meetings of other organizations such as the Geological Society of America.

The Education Committee made up of A. F. King, Chairman, and W. Tovell has been actively contacting different schools and geology departments across Canada in order to promote geological education. This has resulted in the Newfoundland Journal of Geological Education being circulated to geology departments, libraries, museums and to interested school teachers across Canada. A list of earth science teachers for the provinces of Newfoundland, Nova Scotia, Ontario, and Saskatchewan has been obtained and is being used in the dissemination of geological information. Teachers have been urged to subscribe to *Geoscience Canada*. The Newfoundland Section of the Geological Association recently sponsored a teacher's workshop in the Memorial University Geological Department. Other GAC Sections and geology departments across Canada are involved in the earth science projects. In Ontario, Shell Canada workshops have been held at the University of Western Ontario and the Royal Ontario Museum is providing a number of mobile exhibits which visit geological departments and institutions. Members of the Geological Association are encouraged to become more involved with geological education at all levels in the community, from kindergarten to advanced university courses. The Chairman of the Committee attended the British Association of Teachers of Geology annual meeting in Sheffield, England. The Education Committee would like to acknowledge the assistance of Rupert MacNeil, Acadia University, and Phillip L. Reeves, Geological Educator, Saskatchewan Mineral Resources, for their encouragement and assistance during the past year. A. F. King has regretfully tended his resignation from the Education Committee, to become effective at the 1980 GAC Meeting at Halifax.

Special Projects Committee: J. Y. Chagnon, Chairman of the Special Projects Committee was forced to resign his position because of poor health following the Quebec Meeting. Council records with gratitude his initiatives and assistance during the past two years as Chairman of this committee and as GAC Councillor.

Newfoundland Section: The first official event of the year was a reception, co-hosted with the Memorial University of Newfoundland's Geology Department, for Warde Neale and Mike Keen who visited Memorial University as part of the Geoscience Council University Review Committee. The reception was held at the University on April 29th, 1979.

Logan Day (some prefer to call it Alexander Murray Day) was celebrated on Sept. 29th in Newfoundland instead of Sept. 30th as it was on the mainland. The local park was the scene for a rather rowdy game of horseshoes in which the participants (unfortunately) showed little respect for Logan or Murray. The Fall Meeting with Technical Session was held on October 12th at Gander, central Newfoundland.

Several excellent papers dealing with topics as far reaching as the Coronation Geosyncline and the Oman Ophiolites were presented. The next two days were spent on field trips in the Gander/Notre Dame Bay area. A convoy of vehicles followed seemingly informed leaders to the GRUB line (Frank Blackwood), the Dunnage Melange (Hank Williams), the Twillingate Pluton (Ed Stander and Tom Calon), and Moretons Harbour Volcanics (Paul Dean).

The GAC (Newfoundland section) scholarship for 1979/80 was awarded to Janok Bhattacharya. A commemorative plaque was also presented. This is the second year the $300. scholarship has been awarded, and the local Section has an officially registered scholarship fund at Memorial University. Two issues of Melange, the Section's newsletter, were published during the year and provided members with all the local gossip. Also, two issues of the Newfoundland Journal of Geological Education were published.

St. Valentine's day did not go unrecognized by the Newfoundland Section this year. Hardy members braved an early spring snow storm on February 14th to attend a meeting and pay homage to their favourite rock (group).

The Annual Spring Meeting closed out the 1979/80 year. The Business Meeting,

held on March 7th, was followed by a beer and bull session. Both commodities were available in copious quantities before, during and after the meeting. The technical session entitled 'Geology and Hydrocarbon Potential of the Northwest Continental Margin: an Update', was held on March 8th and featured experts from Government (Newfoundland's Petroleum Directorate, GSC, USGS), Industry (Chevron, Shell) and Memorial University. The dinner and dance which followed later that evening, was the social highlight of the year. Three media awards (virginite maps of Newfoundland and Labrador) were presented for outstanding portrayal of earth science in the Province. A similar plaque was presented to Art King, retiring chairman of the Education Committee, for his work with the Newfoundland Journal of Geological Education. The after dinner speaker was Steve Millan, President of the Provincial Petroleum Directorate.

Members wishing to read more about the activities of the Newfoundland Section are referred to *Geolog*, Vol. 8 no. 1; Vol. 8 no. 2, and Vol. 9 no. 1.

Atlantic Geoscience Society: AGS membership now stands at 200 distributed through out Atlantic Canada, with a few in Ontario and Quebec.

The Society held monthly meetings from September to April and seven lecture presentations were given by the following speakers: John Ostrom, Chris Beaumont, Basil Cooke, Chris Brooks, Alan Morgan, Preston Cloud, W. Berggren and J. Sclater.

In addition to these monthly talks, the Society also sponsored and conducted a day of geoscience activities in the Nova Scotia Museum in October, to commemorate Logan Day; and organized and hosted a symposium on Lower Palaeozoic stratigraphy in January in Amherst, N.S.

The Geological Highway Map of Nova Scotia was published by the Society in March, 1980, in time for the annual GAC/MAC 'Halifax '80' meeting. The Society hosted this year's joint GAC/MAC meeting, having made the offer in 1974 when the AGS became an associate society of the GAC. The AGS will also be operating and manning a booth at the 'Halifax '80' meeting. Additional reports on the activities of the AGS can be found in *Geolog* Vol. 8 no. 1, 2, and 4.

The Winnipeg Section remains active but on a rather low-key basis. Support for the Section among the geological fraternity is decreasing as shown by the decline in both revenue and attendance at various functions. This trend is compounded by the shrinking of the geological population in Winnipeg. In spite of this, the Section continues to function, with hopes for improvement in the near future.

In the Fall, the Section held its second annual Founder's Day Picnic at which Albert Zeemel was honoured as one of the local pioneers of mineral exploration. Four Technical Sessions were held during the winter with an average attendance of 30. The Section greatly appreciated the visit of Chris Brooks, the 1979 Past Presidents' Medal lecturer.

The Edmonton Geological Society: The first event of the year was the annual field trip held September 29, 1979. This field trip was a little different from others as the transportation was by canoe instead of by bus. The Quaternary and Cretaceous geology was inspected along the North Saskatchewan River from Devon to Edmonton. Peter Flach, John Nurkowski, John Shaw and Lawrence Andriashek provided the leadership to about 15 participants. Monthly luncheon meetings began in September 1979 and ended the year in March, 1980. Lecture topics included: 'Geology and Mineralization at the Blizzard Deposits, B.C.'; 'Geology of the Middle Proterozoic Basins in the Athabaska Area'; 'Modern Clastic Depositional Environments and Processes, South Carolina Coast'; Gold Deposits of the Canadian Shield'; 'Crust-Mantle Evolution'; 'Tungsten'; and 'Sedimentary and Tectonic Coal Basins of the Canadian Cordillera'.

EdGeo, the workshop for Edmonton's earth science teachers was held on May 9th and 10th, 1980. The workshop was sponsored by the Edmonton Geological Society and the Geoscience Council of Canada. The purpose is to provide background data on the local geology to high school teachers for use in the earth science courses. Twenty-five teachers attended the meeting. The Edmonton Geological Society expresses their thanks to D. M. Currie and Reg Olsen and their committee for their time and effort in organizing the 1980 workshop.

Further activities of the EGS are reported in *Geolog*, Vol. 8 no. 3 and Vol. 9 no. 1.

Activities of the *Divisions of GAC* have been reported in *Geolog* as follows:

Canadian Geophysical Union	Vol. 8 no. 1, 4; Vol. 9 no. 1
Environmental Earth Sciences	Vol. 8 no. 1
Mineral Deposits	Vol. 8 no. 1, 3; Vol. 9 no. 1
Paleontology	Vol. 8 no. 1-4
Precambrian	Vol. 8 no. 1, 3
Volcanology	Vol. 8 no. 1

Publications

The sale of publications from May 24, 1979 to April 30, 1980 and stocks on hand are given below.

Proceedings	**Copies Sold**	**Copies on Hand**
Vol. 21	2	175
Vol. 22	2	138
Vol. 23	1	143
Vol. 24 I	2	42
Vol. 24 II	0	4
Vol. 25	2	255

Special Papers	**Copies Sold**	**Copies on Hand**
# 8	113	1241
# 9	5	27
#10	0	0
#11	154	299
#12	36	976
#13	44	930
#14	165	111
#15	36	194
#16	162	951
#17	94	332
#18	436	814
#19	292	708

Geoscience Canada	**Copies Sold**	**Copies on Hand**
Vol. 1 #1	7	207
#2	6	16
#3	6	359
#4	6	162
Vol. 2 #2	7	82
#4	8	225
Vol. 3 #1	11	7
#2	10	320
#3	12	164
#4	13	260
Vol. 4 #1	10	401
#2	10	148
#3	11	317
#4	14	492
Vol. 5 #1	12	880
#2	10	178
#3	12	805
#4	672	349
Vol. 6 #1	240	781
#2		859
#3		500
#4		509
Vol. 7 #1		650

Facies Models		
Reprint Vol. 1	5505	1683

Program & Abstracts	
Vol. #1	97
Vol. #2	244
Vol. #3	439
Vol. #5	108

Information Circulars	**Copies Sold**	**Copies on Hand**
#1	1	253
#2	4	950
#3	26	201

Guidebooks

1967	25	280
1970 #5	2	23
#6	3	15

List of members attending the Business Meeting held at Dalhousie University, Halifax, Nova Scotia, Tuesday, May 22, 1980.

N. J. Allman
J. D. Aitken
L. D. Ayres
W. R. A. Baragar
H. R. Belyea
R. A. Burwash
W. G. E. Caldwell
F. A. Campbell
R. W. Dalrymple
D. Derry
P. M. D. Duff
W. F. Fahrig
E. D. Ghent
A. R. Graham
R. K. Herd
H. Hofmann
E. Irving
P. M. Kavanagh
A. F. King
J. W. Kramers
B. A. Liberty
R. H. MacNeill
R. W. Macqueen
R. H. McNutt
A. V. Morgan
H. C. Morris
E. R. W. Neale
J. P. Nowlan
D. J. W. Piper
L. P. Purcell
D. F. Sangster
S. D. Scott
C. R. Stelck
D. W. Strangway
A. Sutherland Brown
H. Tammemagi
J. O. Wheeler

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

Graduate Studies in the Earth Sciences

University of Alberta

Major Fields: Geochemistry, mineralogy, petrology, metalliferous mineral deposits; gemorphology, hydrogeology, engineering, environmental and Quaternary geology; invertebrate and vertebrate paleontology; sedimentology stratigraphy, coal and petroleum geology; structure, geotectonics; stable and radioactive isotopes; geomagnetism, magnetotellurics; gravity, magnetics: space physics, ionosphere, solar-terrestrial relations; seismology; paleomagnetism; geophysical instrumentation; time sequence analysis.

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Contact: B. D. E. Chatterton, Dept. of Geology or J. A. Kernahan, Dept. of Physics, University of Alberta, Edmonton, Alberta T6G 2E1

University of British Columbia

Major Fields: (Geological Sciences) Cordilleran geology, mineral deposits, coal geology, marine geology, Quaternary, groundwater and engineering geology, mathematical modelling, theoretical geochemistry, experimental petrology, structure, tectonics, geochronology, applied geochemistry, paleontology.

Major Fields: (Geophysics and Astronomy) Aeronomy, applied geophysics, communication theory, geodynamics, geomagnetism, geophysical instrumentation, glaciology, inversion theory, isotopic studies and mass spectrometry, seismology, tectonophysics. (Information on graduate programs in astronomy available on request).

Degrees: Ph.D., M.Sc., M.A.Sc. (geological engineering)

Contact: (Geological Sciences) Dr. H. J. Greenwood, Head, Department of Geological Sciences, The University of British Columbia, 6339 Stores Road, Vancouver, B.C. V6T 2B4

Contact: (Geophysics and Astronomy) Dr. R. M. Ellis, Graduate Advisor, Department of Geophysics and Astronomy, University of British Columbia, 129-2219 Main Mall, Vancouver, B.C. V6T 1W5

Brock University

Major Fields: Quaternary studies, particularly geochronology, stratigraphy, palynology, paleoecology, glacial geology, limnogeology, gemorphology and hydrology. Studies of mobile regions, particularly petrology, volcanology, structural geology, tectonics, sedimentology, economic geology and paleontology.

Degrees: M.Sc.

Contact: Dr. W. T. Jolly (Chairman), Department of Geological Sciences, Brock University, St. Catharines, Ontario L2S 3A1