

Secretary's Report May 1982

Alan V. Morgan

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Membership

Membership of the Geological Association as of April 21, 1982 is:

Honorary Fellows	6
Life Fellows	5
Retired Fellows	70
Fellows	1,739
Associates	913
	2,733
Corporate Members	70
	2,803

The geographic distribution of membership (Fellows, Associates and Corporates) is:

Newfoundland	89
Nova Scotia	86
New Brunswick	44
Quebec	262
Ontario	986
Manitoba	58
Saskatchewan	89
Alberta	398
British Columbia	457
NWT and Yukon	24
Prince Edward Island	0
United States	192
Australia/New Zealand	25
South and Central America	10
Africa and Asia	20
Europe	62

The 252 members elected since May 20, 1981 are as follows:

Fellows:

M. Ahmed	M.L. Fellows
J.C. Archibald	R.B. French
P.G. Atherton	S.L. Fumerton
R.C. Bailey	M. Gascoyne
E. Baaker	F. Gatchalian
S.M.A. Boutcher	I.L. Gibson
D.R. Bowes	L.B. Goldsmith
R.H. Brown	D.I. Gough
D.R. Budinski	C.F. Gower
A.N. Campbell	E. Haliw
J. Carignan	U.M. Hamann
P. Cerny	G.H. Harper
J.S. Chivers	A. Hayatsu
L.G. Closs	M.D. Higgins
J.J. Cramer	A.M. Homenuke
D.A. Crisp	S.C. James
J.W. Davis	M. Kenyon
M.J.R. DeBriske	J.A. Klassen
E. Denomme	R.A. Klassen
D. Djafar-Zade	K.S. Knox
G.R. Dunning	J.A. Korenic

J.A. Korstgard
G.A. Kuehl
G.M. Leary
A. Leskiewicz
M.Y.C. Liew
J.W. Lydon
N.D. MacFarlane
T.P. MacMichael
A.D. MacTavish
J.R. Mangham
C. Marmont
S.L. Masson
J.F. McOuat
R.F. Mereu
P.J. Mudie
C.R. Nauman
B.G. Naylor
G.A. Nooten
D.W. Oldenburg
M.G.B. Palmer
S. Paradis
J.C. Parise
J.G. Pearson
S.E. Prest
D. Pretorius
T. Rivers
J.A. Samaniego
E.A. Schiller
P.K. Seccombe
P.W.A. Severin
P.L. Smith
R.C. Somerville
D.A. Spratt
A. Sugaki
G.C. Taylor
R. Thorsteinsson
D. Titaro
M.G. Walters
B.R. Watters
J.E. Welsted
H.R. Williams
M.C. Wilson
G.A. Woods
R.V. Young

Associates:

H.J. Abercrombie
S.W. Adcock
E.A. Albrechtsons
I. Allen
C. Anglin
R.R.A. Arnold
M. Arpin
R.W. Askin
M.L. Atkinson
U.O. Atuanya
S.J. Barnhill
J.A. Barnsley
S.L. Barron
J.R. Bartlett
A. Beaudoin
M.A. Beaugregard
R.S. Bennett
E. Bianchini
J.W. Bielski
J. Bolha, Jr.

D.N. Bonnar
F. Bouchat
A.V. Boud
A. Bourque
C.J. Bradbrook
B. Brassard
J.G. Brisco
D.A. Brown
K. Brown
T. Bruland
D.M. Burden
I. Cadieux
L.G. Chamney
M.G. Chase
M. Chong-Foo
F.J. Chorley
N. Chow
W.T. Collins
B.J. Cooke
L. Corriveau
G.G. Crowe
M.P. Cunningham
D. Danis
D.W. Dearborn
C. Derome
D. Desaulniers
D.B. Dingwell
J.R. Dubyk
A.P. Dunn
J.M. Eider
R. Ernst
C.A. Evenchick
J.E. Farr
M.G. Ferreira
J.M. Flanagan
J.A.S. Fogarassy
C.J. Fordham
G. Forest
J.H. Fraser
E. Gahe
T. Garagan
Y. Garneau
Y. Gaudreau
D.J. Gerth
B. Goldstein
Q.H. Goodbody
A.W. Gourlay
J.C. Graves
R. Greenwood
M.J. Hanna
L.M. Hanrath
L.A. Harnois
N. Hart
B.J. Hayes
K.C. Hill
W.R. Hoyle
D.T. James
M.R. Jensen
R. Kemp
C.G. Kennedy
F.M. Kenny
A.E. Kent
J.A. Kent
C.E. Kilby
K. Kretschmar
R.J. LaHaye

M.H. Lenters
K.W. Leonard
K. Lund
A.L. Maddalena
D.J. Manuel
J.L. Martatt
R. Marquis
N.A. Mathieson
S.G. McAllister
D.P. McCarthy
D.R.J. McCarthy
B.D. McGill
P.D. McGowan
S. McIlwraith
S.R. McKean
D.P. McLean
P.J. McLellan
A.M. McNeil
D.L. Melrose
R.R. Miller
M.E. Monahan
A.R. Moravec
K.J. O'Shea
R.R. Ogilvie
N. Ouellet
V. Owen
V. Palma
S.L. Paradis
M.A. Parent
D.J. Pawliuk
R.B. Pease
R.B. Peirce
M.D. Philpot
B.A.T. Pilling
S. Pinard
S.M. Pollock
C. Potter
R.A. Quartermain
W.J.F. Quesnel
L.A. Quinn

H.K. Raddysch
R.H. Rainbird
R.S. Ramshaw
R.E. Ranta
C.J. Rees
G.L. Reese
M. Rheault
J.A. Richard
N. Rioux
C. Rubin
J.K. Russell
D.R.J. Schiefelbein
D.J. Schulze
M. Shehata
V. Sibiya
M.A. Simpson
P.J. Simunovic
A.L. Smith
S. Smith
D.J.A. Smyth
K.G. Steele
C.J. Stewart
J.W. Stewart
P.E. Stewart
P.W. Stewart
R.S. Swanson
G.L. Tanton
S.L. Tomlin
G. Vaday
J. Vaillancourt
N. A. Van Wagoner
C.K. Vlahos-Finn
D.B. Walker
L.M. Weissmann
M.J. Weitzman
M.L. West
B.H. Whiting
R.B. Willsey
E.C.J. Wilson
D.F. Woodhouse

Transfer From Associate To Fellow:

D.W. Alley	M.E. Lavery
G.D. Belik	Y.S. Lowe
J.D. Blanchflower	J.L. MacLeod
J.A. Brophy	J.C. MacNae
T.J. Bottrill	D. Nikols
W.F. Boyd	G.E. Nutter
J. Clark	R.A. Olson
W. Gewargis	R.G. Orr
J.F. Gillan	R.J. Pichette
B.E. Gorman	D.E. Purdy
C.P. Harivel	D. Robertson
J.R. Hill	W.R. Troup
D.R. Hillier	M.E. Turner
D.G. Innes	G.J. Woodsworth
A.E. Isherwood	G.M. Yeo
C.F. Klappa	

An additional 97 applications for membership are presently being processed by the Secretary's office. Adjustments in the total membership resulted from the following:

Resigned	47
Deceased	10

Resigned:

D.K. Allan
G.M. Anderson
J. Azuelos
H.G. Bassett
R.C. Beard
P. Boudreault
U. Brand
J.P. Bujak
S.V. Burr
R.B. Cairns
J.W. Comeau
G.B. Craig
D. Daae
D. Ducharme
J. Dumont-Desbiens
R.W. Forester
D.L.F. Gilbert
D.R. Grant
C. Grenier
R. Green
D.L. Griffin
J.V. Guy-Bray
T.W. Henniger

N. Hogg
J.T. Humphreys
G.R. Jamieson
B.E. Jones
E.G. LeBreton
A. Levesque
F.B. Lincoln
M. MacLeod
J.M. Martins
O. Maurice
J.H.L. Miller
G.E. Parsons
D.E. Pearson
L. Perron
R.T. Poutney
J.A. Sadler
J.J. Sauriol
H.C. Schwab
S.L. Simigian
R. Skinner
M. Sklash
W.L.W. Taylor
W.M. Tovell
D.E. Wells

It is with regret that the deaths of the following members are reported.

Deceased:

R.A. Day
J.D. Hale
H.R. Hose
D.H. James
B.A. Liberty

D.R. Long
J.C. Lund
G.E. Moody
F.S. Shea
T.S. Smith

Logan Medal

The Logan Medal for 1982 was awarded to Dr. Charles R. Stelck, Department of Geological Sciences, University of Alberta, Edmonton. The citation read at the GAC Luncheon on Monday, May 17th stated: The Logan medal is the highest award the Geological Association of Canada can bestow. It is awarded to an individual who has made an outstanding contribution to the development of earth sciences in Canada. Charles Richard Stelck of the University of Alberta, Edmonton is such an individual.

A noted oil finder, with long experience in the field, Charlie Stelck combines three distinctive talents. He is a research scientist with an enviable track record: he is an inspiring teacher; and he is a gentleman with a capital G. His work on the Cretaceous stratigraphy and paleontology of Alberta and British Columbia is internationally recognized. He is reported to have the sharpest eyes of any man in the world for an ammonite, particularly for *Dunveganoceras*, a genus named after a part of Canada that he loves. He was the geologist responsible for the great Fort St. John gas field in British Columbia. Natural gas in the Monkman Pass comes from a structural trap which he first defined and the Sherman Flats anticline is another of his structures.

Dr. Stelck's professional career dates from 1937 when, after graduating in geology from the University of Alberta, he worked for the Geological Survey of Canada in the Peace River country, as

field assistant to distinguished paleontologist, Frank McLaren. Following work in the same region for the British Columbia government and various oil companies, a spell on the wartime Canol project and completion of a doctorate in micropaleontology at Stanford University, he settled permanently at the University of Alberta in 1950. As a teacher, Dr. Stelck's pertinent and enthusiastic lectures on stratigraphy, sedimentation, paleontology and micropaleontology have, over 30 years, been the stepping-off point for many individuals who likewise have become major contributors to the geological sciences and the petroleum industry. A list of his many graduate students reads like Who's Who.

Charlie Stelck is renowned for his high ethical standards, his humanity, accessibility, friendly counsel and hospitality. He has earned the respect of every individual who has come into contact with him.

Dr. Stelck was co-author, with his teacher and life-long friend, the late P.S. Warren, of GAC Special Paper No. 1, 'Devonian fossils of Western Canada'. He was co-editor of GAC Special Paper No. 18, the volume named in honor of Dr. Warren. Dr. Stelck has been president of the Geological Association's Paleontological Division. He took an active role in organizing field trips for the 1972 International Geological Congress held in Canada, and for the 1976 GAC-MAC meeting in Edmonton.

Charlie Stelck is a logical and most deserving recipient of the Geological Association's highest honor, the Logan Medal.

Past Presidents' Medal

The 1982 recipient of the Past Presidents' Medal is Dr. Noel P. James of the Department of Earth Sciences, Memorial University of Newfoundland, St. John's. Again, the citation for the Past Presidents' Medal was read at the GAC Luncheon held on Monday, May 17th and is reproduced below.

Noel James of Memorial University is one of Canada's brightest young geoscientists and he has already developed an international reputation in sedimentology and paleontology. His graduate work at McGill concerned the sediments and diagenesis of Pleistocene reefs of Barbados, work that was advanced while at the University of Miami with Professor R.N. Ginsbury, by concentrating on early subsea cementation in reefs off Belize. To that time research on modern carbonates had been limited to shallow depths attained by skin-diving. A major breakthrough by James and Ginsburg was to use research submersibles (ALVIN) first in Belize and then in Bermuda, to investi-

gate the sedimentology and diagenesis of reefs, and the outer platform and slope facies to depths of 3000 m. Their monograph of the International Association of Sedimentologists, published in 1979, has received the highest acclaim by reviewers.

Many researchers would have continued along this major avenue of investigation, but James developed a complementary program of research on analogous ancient carbonates. Since moving to Memorial University in 1974, he has produced pioneering studies on the stratigraphy, sedimentology, diagenesis and paleontology of Cambrian archeocyathid reefs in Labrador and more recently, of Ordovician platform and slope deposits in western Newfoundland. The reviews of carbonate facies models he published in *Geoscience Canada* are being tested further in a new program concerned with carbonates of a Mesozoic continental margin in the Oman Mountains of Arabia.

At Memorial, James is regarded by students and faculty as one of the best teachers as well as researchers. He is receiving many requests to speak at international conferences, as in Australia, Italy, and England in 1981, and as an AAPG Distinguished Lecturer in 1982-83. James has always been concerned with the industrial applications of his research and most of his graduate students and post-doctoral fellows have made careers in the petroleum and mineral industries. In 1979 he was awarded the prestigious Industrial Fellowship of the Marathon Oil Company in Colorado.

Thus, Noel James has proven himself to be a brilliant, energetic, and productive geoscientist of remarkable breadth and originality whose work has both spanned and integrated ancient and modern processes and systems. It is with great pleasure that we nominate Noel P. James as a most worthy recipient of the GAC Past Presidents' Medal.

Finances

The Financial Statement for the year ending December 31, 1981, prepared by the Association's auditors, was sent to all Fellows in April, 1982. The Association experienced an increase of slightly over \$36,000. during 1981 to bring the year-end surplus to \$60,636. The revenues were increased principally from members fees (\$14,217.), interest on investments (\$3,102.) and the annual business meetings (\$38,404.). The last figure is somewhat anomalous because the income from annual meetings represents income from the 1980 Halifax Meeting and the 1981 Calgary Meeting, both of which came in during the fiscal year 1981. The

costs for members' services increased by \$23,541, principally as a result of increased charges for the Canadian Journal of Earth Sciences, stenographic services, travel and preparations for the proposed move of the GAC office from Waterloo. This has necessitated the purchase of a number of items of equipment which will be essential for the operation of the GAC Headquarters when it leaves Waterloo in 1983. Further costs may be anticipated during the fiscal year 1982.

The costs of publications of the Association creates drastic fluctuations in the revenues of the Association. 1981 was a good year in this respect. Although the costs of printing, editing, storage and handling of GAC publications rose by \$19,333 over 1980, recoveries from publications also rose remarkably. Grants to the Association went up by \$3,500 over the 1980 fiscal year. Sales of advertising rose slightly by approximately \$200, and the sales of publications went up by \$41,657, to an all time high of \$107,543. The bottom line figure for the cost of publications to the Association saw an improvement of \$45,347 over the 1981 financial year. Council wishes to stress to membership that they are making every effort to keep the costs of the Association to a minimum. Unfortunately, most of the cost increases which the Association has to bear are from extra-Association activities, i.e. the dramatic increase in postage costs announced by the Federal Government will undoubtedly hit hard at the Association. Similarly, costs for the Canadian Journal of Earth Sciences are also beyond the control of the Association, but these have been lower in the last year than in previous years and are not projected to increase very much in the next financial year. It is fair to point out that had the Association not received two financial surpluses from Annual Meetings, the year-end figures would be at least \$20,000 below the \$60,000 surplus figure at the end of the year. It is also important for the membership to realize that the Association must maintain an operating surplus of at least \$40,000 at year-end to off-set costs which periodically reach the Association.

Committee Activities

The Executive and Council of the Association met in Council Meetings held on May 13, 1981 in Calgary; on October 16, 1981 in Winnipeg; on February 11, 1982 in Toronto and on May 15, 1982 in Winnipeg.

The Editorial Committee under the chairmanship of John W. Kramers of the Alberta Geological Survey, met three times during the year in association with

the Council meetings. The success of the Association's publication program is due to the volunteer efforts of the committee members, all of whom put in many hours of editorial duties.

Geoscience Canada, under the capable editorship of Bob McNutt, Department of Geology, McMaster University, has appeared at regular quarterly intervals throughout the year. The delay in publication of the December, 1981 issue was the result of the summer-long postal strike. The Editorial Committee encourages members of the Association to submit short original papers and topical reviews for publication in *Geoscience Canada*.

The first of the *Geoscience Canada Reprint Series, Facies Models*, which was published in August, 1979, was reprinted for the fourth time during the summer of 1981. It is well established as the most popular publication of the Association to date. The series on Ore Deposit Models is coming along well with five articles published, one in press and seven more committed. The Pleistocene Dating Methods series has had six articles published, one is in press, and two more are promised. A new series on Diagenesis was started in the March 1982 issue and so far eight articles have been committed for publication.

The Association Newsletter, *Geolog*, continued to thrive in the last year, due in large part to the outstanding efforts of Graham Williams of the Atlantic Geoscience Centre, Halifax. It too, has appeared at regular quarterly intervals.

Special Paper 22, *The Buchans Orebodies: Fifty Years of Geology and Mining*, edited by E.A. Swanson, D.F. Strong and J.G. Thurlow was published in time for the 1981 Calgary Annual Meeting. Special Paper 21, *Cretaceous Rocks and their Foraminifera in the Manitoba Escarpment*, by D.H. McNeill and W.G.E. Caldwell was printed in the fall of 1981. Special Paper 23, *Sedimentation and Tectonics in Alluvial Basins*, edited by A.D. Miall arrived from the printers during February, 1982. Special Paper 24, *Major Structural Zones and Faults of the Northern Appalachians*, edited by P. St. Julien and J. Béland is due to appear in late Spring. Special Paper 25, *Precambrian Sulphide Deposits*, the H.S. Robinson Memorial Volume, edited by R.W. Hutchinson is at the printers and should be published by this summer. Special Papers in the planning stages and approved in principle by Council include: *Evolution of Archean Supracrustal Sequences* (to be edited by L.D. Ayers); *Quaternary History of the Lake Agassiz Region* (to be edited by J.T. Teller and L. Clayton); and

Jurassic-Cretaceous Biochronology and Biogeography of North America (to be edited by G.E.G. Westerman). The first two of the above planned Special Papers will come from Symposia at the Winnipeg Annual Meeting and the third from the Third North American Paleontological Convention to be held in Montreal, August, 1982. Further Special Papers are in the early planning stages.

The planned Popular Guidebook Series suffered a setback this year with the resignation of the series editor, W.H. Mathews. It is still hoped that this series will continue and one of the planned guidebooks to urban areas, London (Ontario) is nearing completion.

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. The editor of *CJES*, M.E. Evans, has continued to strive for excellence in the papers published, and the Committee looks forward to a continuation of the close liaison of past years.

The Editorial Committee and GAC Council wish to record their indebtedness to various agencies for the support they have received toward publication in the last year. These agencies include the Natural Sciences and Engineering Research Council of Canada, the Geological Survey of Canada, and the Canadian Geological Foundation. In addition, various universities and government agencies across Canada have continued to provide support leading to cost reductions in a number of the Association's publications.

The Finance Committee chaired by H.C. Morris has been monitoring the cash-flow of the Association. While the Committee is reasonably satisfied with the year-end finances of the Association, it has been observed that the equity surplus represented as a percentage is constantly dropping in real dollar terms. One other problem which is being reviewed by the Committee is the build-up of unsold publications which remain as a type of cash-reserve to the Association. Unfortunately, the capital which is being retained in these publications is needed in order to help to ease the cash-flow shortage of the Association.

One other aspect which could make a considerable difference to the finances of the Association is the subject of Incorporation and a related charitable status. As members have been aware, the Association has been involved in the preparation for Incorporation over a number of years. Unfortunately the latest legal advice that

we have concerning incorporation is that a comprehensive revision of the GAC Constitution will be required prior to formal incorporation. This subject is likely to question some of the fundamental principles of the Association and, as such, requires serious discussion by GAC Executive, Council and the membership at large. A further communication to the membership will be made later in 1982.

The **Membership Committee**, chaired by J.H. Remick and including J.D. Aitken, A.T. Avison, D.H. James and J.G. Malpas reviewed some 252 membership forms during the year. 252 members were elected with 31 transfers. 97 applications are currently being processed. Membership of the Association now stands at 2,803 and the total number of each category of membership are given at the beginning of the Secretary's Report.

The Membership Committee reports with deep regret the death of D.H. James on October 31, 1981. Mr. James had served on the Membership Committee since 1974. His replacement is V.F. Hollister of Richmond, B.C.

Membership dues for the 1982 calendar year were increased as follows: Associates, no longer in University, who received their Bachelor's degree more than 5 years ago (and others who do not qualify as Fellows) from \$40. to \$46. Student-Associates from \$20. to \$25. and Associates no longer in university who received their Bachelor's degree less than 5 years ago from \$30. to \$39. The fee for Corporate membership remains unchanged at \$200.

Considering the effects of the current recession together with inflation and high interest rates, response was good to a letter written by the Association's President, N.J. Allman, and sent with the 1982 dues form asking for donations from members. Although this is not a tax deductible item, 515 members (306 Fellows, 205 Associates and 4 Retired) contributed \$3,995.50 in donations ranging from \$1. to \$200. In 1981, 620 members (416 Fellows and 250 Associates) contributed \$4,644. It is hoped that additional members may contribute to GAC with their 1983 dues payments, especially if the Association does succeed in incorporating before year-end. A letter of thanks from the President was sent to each member who sent donations with their 1982 dues.

The 1982 dues form also included a section on employment affiliation. The response by some 2,168 GAC members gives the following employment affiliation breakdown shown in Table I, and membership in GAC Divisions is shown in Table II.

TABLE I Employment Affiliation

Mining	814	29%
Industry/Consultant	189	7%
University/Staff	372	13%
University/Student	169	6%
Federal Government	198	7%
Provincial Government	195	7%
Consultant/Contractor	138	5%
Other	93	3%
No reply	635	23%
	2,803	100%

TABLE II Membership in GAC Divisions

Canadian Geophysical Union (same as for 1980-1981)	137
Environmental Earth Sciences (up by 4)	156
Mineral Deposits (up by 36)	696
Paleontology (up by 10)	97
Precambrian (down by 11)	231
Structural Geology (down by 2)	142
Volcanology (down by 14)	206

A new Membership Booklet, revised to April 30, 1982, will be distributed to the membership in June, 1982. This is the fourth in the series of Membership Booklets for the Association and includes for the first time the telephone numbers of members who responded to the request for such information.

Council is currently considering a series of proposals from the Membership Committee concerning reduction of age requirements for the Retired Status. This should provide members with reduced fees for membership in the Association.

The **Program Committee** chaired by R.S. Harrison has continued with the co-ordination of the GAC-sponsored national lecture tour undertaken in 1981 by the most recent recipient of the GAC Past President's Medal. This year's lecturer was Dr. Dirk Templeman-Kluit from the Geology Division of the Department of Indian and Northern Affairs in Whitehorse. Dr. Templeman-Kluit's very successful month-long tour encompassed twelve major centres: St. John's, Halifax, Fredericton, Montreal, Ottawa, Toronto, Winnipeg, Saskatoon, Edmonton, Calgary and Victoria. His presentation was entitled 'Yukon Tectonic Elements and a Collision Model for the Evolution of the Canadian Cordillera'.

The other primary activity of the Program Committee has been to co-ordinate the flow of information between organizers of future meetings. These meetings continue to grow in size, cost, and com-

plexity and careful planning is an absolute necessity. Future meetings will be held in Winnipeg '82, Victoria '83, London '84, Fredericton '85 and Newfoundland and Saskatchewan beyond that.

The **Special Projects Committee** jointly chaired by Leopold Gélinas of the Université de Montréal and David J.W. Piper of the Atlantic Geoscience Centre were charged with modifying the GAC Constitution as a result of proposed Incorporation. Because little information has been available about the Incorporation of the Association, the Committee has been forced to remain relatively inactive. The mechanisms for Incorporation appear to be more complex than first anticipated and will require a major revision of the GAC Constitution. This will be circulated to members hopefully before the year-end of 1982 and there is a possibility that an 'extra-ordinary special meeting' of the Association may be held before the year-end.

The Special Projects Committee has also investigated whether Sections and Divisions wanted a change in the regulations concerning GAC membership for their members. The results of the survey suggested that the status quo was satisfactory for Divisions, but that more flexible membership requirements were appropriate for Sections. No action has been taken in this respect. The Committee also made recommendations on financial responsibility at Annual Meetings which are being followed up by the Finance Committee. Leopold Gélinas has been trying to encourage the formation of new Sections, particularly in the Montreal area and similar attempts are being made by Pete Gordy in the Calgary region.

The **Robinson Committee** chaired by P.M. Kavanagh with L.D. Ayres, T.J. Bottrill, S. Covine and E. Gaucher met several times during 1981. The Robinson Committee has recommended to Council that a Robinson Visiting Lectureship be established with speakers being nominated by the Mineral Deposits Division and by the Precambrian Division in alternate years. The object of this proposal was to allow a young, distinguished geologist to present a lecture tour along the lines of the Past Presidents' Medallist Tour. The Robinson Fund would provide the airfare expenses with local groups sponsoring the meetings in the various centres. The object would be to visit many smaller mining centres across Canada as well as some of the major regional centres.

The Robinson Fund also provided grants toward the publication resulting from the Proterozoic Symposium from the Halifax Meeting and funds to support

some of the speakers at the Kuroko Symposium held at the 1981 Annual Meeting in Calgary. Further sums of money are to be awarded to help to support the Ore Deposits Monograph series currently being edited by Alex Brown and for the Ore Deposit Models Series currently being published in *Geoscience Canada*. The Robinson Committee wishes to encourage members to make applications for consideration by the Committee.

Sections

The **Newfoundland Section** continues to flourish with membership standing at a high of 217. A successful annual spring meeting was held on April 1st and 2nd with a field trip on April 3rd. The theme pursued at the meeting was 'Sediments and Stratabound Economic Minerals with Special Reference to Newfoundland and Labrador'. A monthly luncheon get-together was initiated in 1981 and continues to be well patronized, as have been other functions of the Section. The Logan Day celebration held in typically 'balmy' Newfoundland weather was attended by hard-core participants and the Fall field trip, held October 16th-19th in Springdale, central Newfoundland, was attended by almost 80 persons. A welcoming supper and dinner dance was held for Chris Barnes who has taken over as new head of the Geology Department at Memorial University and also for Ward Neale who has returned to Memorial University to become Academic Vice-President. The publications of the Newfoundland Section continue to be made through *Melangé* and the *Newfoundland Journal of Geological Education* and have been recorded in *Geolog* Vol. 10, #2, #3 and Vol. 11, #1.

The **Atlantic Geoscience Society** held a number of meetings during 1981, the first of which was 'Mineral and Energy Resources of Atlantic Canada'. The abstracts of the talks given at this meeting were published in *Maritime Sediments and Atlantic Geology*. The Association wishes to report that it was granted charitable status for taxation purposes effective October 1, 1981 and has re-arranged its fiscal year to coincide with the calendar year. Informal links have been maintained with the GAC Newfoundland Section, the Geological Society of America and the Geological Society of Maine, and investigations are under way to pursue further cooperation with the CSPG. Other reports of the activities of the Atlantic Geoscience Society are reported in *Geolog* Vol. 10, #2.

After almost 35 years of informal liaison with GAC, the **Toronto Geological Discussion Group** finally became an affil-

iated society with GAC in May, 1981. The Toronto Discussion Group currently consists of approximately 300 members. Recent lectures include the subject of 'Ore Deposits of the Damara Belt, Namibia'; 'Exploration for Witwaterstrand Gold'; 'Submarine ore-bodies on the Troodos ophiolites, Cyprus'; 'Sulphide ores and petroleum on the sea floor' and 'Central Mexican ore deposits'. A seminar jointly arranged with the Department of Geology at the University of Toronto was given on the subject of 'Ancient and Modern Volcanoes'.

The **Winnipeg Section** of GAC has been heavily involved in the organization of the 1982 joint Annual Meeting of GAC/MAC. The Local Section had a very active year and talks have been given on subjects which range geographically from the Yukon to Tanzania and from San Diego to Newfoundland.

The annual meeting of the **Edmonton Geological Society** was held on April 11, 1981 where members and guests were entertained by Glen Caldwell, Past President of GAC, and new editor of the *Canadian Journal of Earth Sciences*. A number of well attended meetings were held during the year and on October 3rd and 4th, the Society ran a field trip to the Drumheller area in Alberta. The emphasis of the field trip was on facies relationships and paleoenvironments of a late Cretaceous, tide-dominated delta. Further discussion of the activities of the Edmonton Geological Society is given in *Geolog* Vol. 11, #1.

The **Cordilleran Section** of GAC was very active during 1981 sponsoring lecture series on Tectonic Styles and Specific Deposit Types. A Symposium was held February 18th and 19th entitled 'Rocks and Ores of the Middle Ages'. The theme (for those not historically inclined) was 'Geology and Minerals Deposits of the Cordillera from Carboniferous through Lower Cretaceous'. The Cordilleran Section co-sponsored a three day field trip to three gold mines and a second three day field trip to study the geology and mineral deposits of the Hope-Princeton area. A hard-cover text, the results of the proceedings from the April Meeting, 'Gold '81', was co-published with the Association. Members of the Cordilleran Section are looking forward to meeting with other members of the Association at the Victoria '83 GAC/MAC Annual Meeting. Further reports of the Cordilleran Section are given in *Geolog* Vol. 10, #3.

Divisions

The **Canadian Geophysical Union**, a joint division of the GAC and the Canadian Association of Physicists currently has a

membership of approximately 300. The CGU Annual Meeting was held jointly with GAC and MAC in Calgary, May 11 to 13, 1981. Approximately 60 papers were read including symposia topics on Megaprojects in Geophysics, Geophysics and Crustal Structure in North America, and Seismicity of Western Canada. General sessions on Mathematical Engineering and Petroleum Geophysics were also held. CGU and the American Geophysical Union (AGU) have had a number of discussions on how to improve communications among geophysicists. One result of these discussions is an agreement under which CGU members may register for AGU meetings at the lower rate set for AGU members. This would also work in a reciprocal fashion. CGU will be meeting again with GAC and MAC in 1983 in Victoria.

The **Mineral Deposits Division**, as mentioned earlier in this report, continues to grow. Membership of MDD now stands at almost exactly 25% of the total membership of GAC. The highlight of the MDD year was the second presentation of the Duncan R. Derry Medal at the GAC annual luncheon in Calgary to Donald F. Sangster, for his many and distinguished contributions to economic geology. The citation is recorded in full in *Geolog* Vol. 10, #3. MDD activities continue to be extremely varied and comprehensive with a full program of symposia, field trips and work shops for its members. For example, three field trips were organized for October 1981 covering aspects of economic geology in the Maritimes, British Columbia and the Yukon, while further field trips were conducted in April, 1982 in the Copper Mountain Region of British Columbia. MDD is involved in a guide-book series for mining regions of Canada, in the Ore-Deposit Model Series in *Geoscience Canada*, mentioned earlier in this report, and also in the organization of symposia at both the Winnipeg and the Victoria Meetings. Members are referred to the *Gangue* publication of MDD and also to *Geolog* Vol. 10, #2, #3, #4; Vol. 11, #1 for further information.

The **Paleontology Division** has increased its membership over 1980 and has remained active with the publication of the GAC *Paleontology Division Newsletter*. A number of subjects have been raised in the newsletter including discussions of provincial legislation to protect fossil localities and the development of the new monograph series entitled *Palaeontographica Canadiana*. Further reports on the activities of the Paleontology Division are given in *Geolog* Vol. 10, #3; Vol. 11, #1.

The **Volcanology Division** has completed a second successful field trip, this

time to the Caribbean Island Arc, a report of which is given in *Geolog* Vol. 10, #4. The Division is actively planning further volcanological field trips. The next will be to either the Rio Grande Rift or to the Snake River Plain, and a further excursion is planned to Hawaii in conjunction with the 1983 GAC/MAC Meeting in Victoria.

Reports of the **Structural Geology Division** are given in *Geolog* Vol. 10, #3; those of the **Environmental Earth Sciences Division** are given in *Geolog* Vol. 10, #4, and the **Precambrian Division** in *Geolog* Vol. 10, #4.

Other Awards of the Association

Each year the Geological Association makes an award (or awards) at the Canada-Wide Science Fair. The 1982 recipient was Robert Minto of Shallow Lake, Ontario, for a project entitled 'Mineralogy'. The Science Fair was held in Toronto in May and the judging for the geological exhibits was by Dr. J.C. Rucklidge of the University of Toronto.

Peter Ian Russell is the 1982 recipient of the Service Award of the Geological Association of Canada. Peter is the Administrative Assistant of the Department of Earth Sciences at the University of Waterloo and for many years has been the 'unofficial' graphics designer for GAC.

All of you are aware of the little 'Television Screen Logos' which head each article in *Geoscience Canada*. Few of you will realize that Peter has been responsible for every one of these logos. His work commenced with the second part of the first volume and is still continuing. Over 300 of these imaginative pictures have been created during the past eight years.

Peter has also been responsible for the design of the Past Presidents' Medal, and the redesign of the bilingual Logan Medal. The GAC displays which are sent to different geological conferences, such as GSA, P and D, I.A.S. and our own GAC/MAC joint meetings have largely been organized by Peter. The citation and award were presented by President Norah Allman during the Annual Luncheon in Winnipeg.

Publications

The sale of publications from April 27, 1981 to April 20, 1982 and stocks on hand are given below.

	Copies Sold	Copies On Hand
Proceedings		
Vol. 21	5	164
Vol. 22	9	124
Vol. 23	6	132
Vol. 24 I	6	31
Vol. 24 II	0	0
Vol. 25	5	245

	Copies Sold	Copies On Hand
Special Papers		
#8	143	676
#9	9	2
#12	59	646
#13	97	565
#15	18	142
#16	120	688
#17	15	267
#18	32	
#19	85	444
#20	525	1,041
#21	245	1,005
#22	827	1,293
#23	276	1,732

Geoscience Canada

	Copies Sold	Copies On Hand
Vol. 1 #1	2	199
Vol. 1 #2	2	7
Vol. 1 #3	2	350
Vol. 1 #4	1	154
Vol. 2 #2	2	74
Vol. 2 #4	1	218
Vol. 3 #2	0	313
Vol. 3 #3	1	153
Vol. 3 #4	0	253
Vol. 4 #1	0	393
Vol. 4 #2	1	138
Vol. 4 #3	3	307
Vol. 4 #4	2	481
Vol. 5 #1	2	869
Vol. 5 #2	2	166
Vol. 5 #3	2	793
Vol. 5 #4	2	337
Vol. 6 #1	2	759
Vol. 6 #2	4	836
Vol. 6 #3	2	479
Vol. 6 #4	2	188
Vol. 7 #1	9	0
Vol. 7 #2	12	25
Vol. 7 #3	13	0
Vol. 7 #4	8	79
Vol. 8 #1	467	323
Vol. 8 #2		206
Vol. 8 #3		249
Vol. 8 #4		269

Facies

Models		
Reprint Vol. 1	3,591	1,855

Program & Abstracts

Vol. #1	9	72
Vol. #2	13	210
Vol. #3	9	410
Vol. #4	30	40
Vol. #5	14	56
Vol. #6		

Information

	Copies Sold	Copies On Hand
Circulars		
#1	32	215
#2	10	931
#3	17	157

Guidebooks

1967	30	233
1970 #5	10	4
#6	6	0

The following list of Fellows attended the annual business meeting, held at the University of Manitoba, Winnipeg, Manitoba on Tuesday, May 18, 1982.

N.J. Allman
L.D. Ayres
C.R. Barnes
H. Belyea
W.C. Brisbin
W.G.E. Caldwell
M.E. Evans
I.L. Gibson
Z. Hajnal
R.S. Harrison
H.J. Hofmann
S.E. Jenness
J.W. Kramers
R.H. McNutt
H.D. Meyn
A.V. Morgan
H.C. Morris
G. Nowlan
D.J.W. Piper
D.H. Rousell
D.A. St-Onge
J. Stevenson
L. Stevenson

Acknowledgements

My sincere thanks to Mrs. Heather Sokoloskie and Mrs. Nancy Riley for their efficiency in running the daily operations of the Association at the Waterloo Head Office. My thanks also go to fellow members of Executive and Council as well as Chairmen and Secretaries of the respective GAC Committees, Divisions, Sections and Affiliated Societies whose submitted information is included in this report.

Respectfully submitted
Alan V. Morgan
Department of Earth Sciences
University of Waterloo
Waterloo, Ontario N2L 3G1