HIGHLIGHTS AND NEW DEVELOPMENTS

The Canadian Society of Petroleum Geologists passed another milestone in 1980 when membership increased by 229 for a new grand total of 3115 members. Society activities continue their growth across Canada with almost seventy active committees plus a number of University Liaison and Area Representatives reporting. Three new standing and two ad hoc committees were struck during the year. The addition of the R. J. W. Douglas Memorial Medal brings another prestigious annual award to the Society. Oil and Gas Pools of Canada, an ambitious undertaking, will provide a valuable reference for Canadian petroleum geology. The “Professionalism/Certification and APEGGA” investigative committee, it is hoped, will provide satisfactory answers and solutions to the concerns expressed by our membership over the years. It is anticipated that the ad hoc National Energy Program Committee will provide significant statistics regarding the program’s effect on petroleum geologists. The T. A. Link Memorial Committee will ensure consistency and adequacy of the C.S.P.G. and A.A.P.G. memorials to T. A. (Ted) Link, a charter member and the 1929 president of the C.S.P.G.’s precursor, the Alberta Society of Petroleum Geologists.

The “Energy Audit of the Eighties” conference provided a timely assessment of Canada’s energy sources for the future. This single session conference incorporated a number of “renewable” resource papers and the unanimous message presented during the technical sessions was that Canada has the resources to be self-sufficient in energy, but cooperation of all levels of government will be required if this goal is to be realized.

The noon-hour Technical Speakers Program saw average attendance at the 20 informative talks increase from 753 in 1979 to 857 in 1980. In the last half of the year every meeting could be expected to produce ticket sales in excess of 900 and on several occasions there were complete sell-outs of 1000 tickets. The high calibre of talks presented in 1980 ensures continued popularity of this Society program.

Future conferences are being organized as follows:

1981 (June 28 to July 1) Third International Symposium on Arctic Geology; General Chairman, E. E. Pelzer; Technical Program Chairman, D. C. Waylett.

1982 A.A.P.G. National Convention sponsored by the C.S.P.G. (June 27 to June 30); General Chairman, J. S. MacDonald; Technical Program Chairman, E. Klovan.


1983 Joint C.S.P.G. - R.M.A.G., Mesozoic of Middle North America from Mexico to the Mackenzie (May 8 to 11); General Chairman, D. F. Stott; Technical Program Chairman, Ian McIlreath.

1980 saw publication of a membership directory updated to October, 1979, thanks to Barry Robbins and Hudson’s Bay Oil and Gas Company Ltd. During 1980 John Maher worked with M. J. Data Consultants to develop a computerized membership system for the Society which will be updated monthly and be capable of providing computer generated mailing labels for Society publications and notices. The system will provide for publication of an up-to-date yearly directory and is anticipated to be running by the fall of 1981. Volumes i
(Arctic Archipelago) and 2 (District of Mackenzie and Yukon) of the Lexicon series were completed and are available for purchase. Volume 3 (Western Cordilleran and Southwestern Yukon) and 4 (Western Canada) are well under way while Volume 5 (Central Canada) and 6 (Maritime Provinces and East Coast Offshore) have been started. The Bulletin of Canadian Petroleum Geology, edited by Peter Sherrington, continues to be the main publication of the Society and 1980 saw parts three and four of Volume 27 and parts one and two of Volume 28 published. At year-end, parts three and four of Volume 28 were in press and should be published in early 1981. Five associate editors reached the end of their three year terms in December of 1980 and we wish to thank F. W. Beales, M. A. Carrigy, J. Gabrielse, B. G. Langhus and A. E. Wren. The Reservoir, edited by Fred DeWiel, continued informing the membership of meetings and Society activities as well as providing a vehicle for expression of members’ opinions in the letters to the editor. Four thousand copies of the 1981 Geological Calendar were printed and by Christmas over 2500 copies had been sold. Bob Spring and his committee are commended for this edition of the calendar. The C.S.P.G. and G.A.C. executives met in Calgary regarding publication of the Canadian Paleontological Monograph Series. The executives agreed to co-sponsor the series and a joint committee made up of three members from each Society plus the Society editors will be set up to oversee this project. The listing of M.Sc. and Ph.D. Theses in Geology at Canadian Universities will be published in the March issue of the Bulletin. This worthwhile service is provided thanks to Len V. Hills.

Publication sales amounted to $60,000 in 1980. Publication sales continue to be a significant source of revenue to the C.S.P.G.

The Continuing Education Committee chaired by Keith Knox presented two excellent seminars:

Geophysics for Geologists — This seminar featured Society members Easton Wren and Neil Hutton who used local examples, thus providing a much more interesting and understandable series of lectures. This seminar will be re-run in 1981.

Oil and Gas Reserve Estimation — This seminar featured Dr. John Lee, Professor of Petroleum Engineering, Texas A & M. Reports from the 90 attendees indicate the course was top calibre.

The one-day field trips program chaired by Al Fischer, organized and hosted field trips to Grassi Lakes and White Man Gap — May 30. Trap Creek, Lundbreck — June 21 and August 9. Mount Wilson — August 16, and Calgary to Big Hill — September 13. These trips are increasingly popular as many companies use them for internal training programs. The trips are usually filled within a week from the opening of registration.

The Distinguished Lecture Tour and Link Award Tour, co-ordinated by Ernie Greenwood, exposed a number of Canadian universities to two excellent lectures. Ray Price presented “The Cordilleran Overthrust Belt in Southern Canada: Its Regional Tectonic Implications, and Its Role in Hydrocarbon Generation and Entrapment” at the following universities: British Columbia, Alberta, Calgary, Saskatchewan, Manitoba, McMaster, Waterloo, Western Ontario, Windsor and McGill. Ian McIlreath presented “Canadian ‘Deep Water’ Carbonate Deposits: Distinction from ‘analogous’ Siliciclastic Deposits and Their Hydrocarbon Potential: at Toronto, Queen’s, Lakehead, Regina and British Columbia.

Meritorious service to the Society and to the geological community in general are recognized and encouraged through a series of C.S.P.G. awards. Honorary Memberships were awarded to D. J. Glass, R. J. Kirker, and Dr. D. J. McLaren. The Medal of Merit for the most significant paper dealing with the petroleum geology of Canada’s sedimentary basins was awarded to the Exploration Staff, Chevron Standard Limited, for their paper “The Geology, Geophysics and Significance of the Nisku Reef Discoveries West Pembina Area, Alberta, Canada.”
The Link Award for the best oral technical paper at a meeting of the Society was won by John C. Hopkins for his talk “Sedimentology of Quartzose Sandstones of Lower Mannville and Associated Units, Medicine River Area, Central Alberta.” Nine Tracks Awards were issued in 1980 in recognition of exceptional service through committee work for the Society. Special awards were made to George G. Grant, General Chairman of “Energy Audit of the 80’s” and to Len V. Hills for his many efforts—before, during and undoubtedly after 1980—on behalf of the C.S.P.G.

The Society continued its efforts to encourage students in geology with the following awards: Undergraduate Student Awards consisting of an engraved certificate and one year memberships in the C.S.P.G. were presented to students in 28 universities. Brian R. Pratt of Memorial University won the best M.Sc. Thesis award and Brian D. Ricketts of Carleton University won the best Ph.D. award. Seven Ph.D. and 12 M.Sc. theses were considered for these awards. The John B. Webb Memorial trophy for the best paper presented at the Western University Conference was awarded to J. D. Dudley from the University of Calgary, and the C.S.P.G. Atlantic University Conference trophy was awarded to Miss Sherry Dunsworth of St. Mary’s University, Halifax, Nova Scotia. The new R. J. W. Douglas Memorial Medal recognizing major contributions to regional tectonic and structural geology and the general understanding of sedimentary rocks in Canada will be a coveted award for Canadian geologists in years to come. The first recipient of this award is Dr. Harold Williams of Memorial University.

The six divisions—Structural Geology, Geochemistry, Geomathematics and Computer Applications, Paleontology, Sedimentology and Coal—actively promote scientific programs through lectures and discussions on specialized topics and particularly through arrangements for stimulating symposia. The Structural section held a June field trip through the Kananaskis area led by Walter Weggner, and the Paleontology Division had a highly successful one-day field trip to the same area organized by Drs. A. McGugan and W. Bamber. The Sedimentology Division arranged another core conference for January, 1981, and the Geomathematics Division have organized a symposium on the “Evaluation of Petroleum Resources” also for January, 1981.

The annual Golf Tournament was once again the social highlight of the year. In spite of the inclement weather a good time was had by all, thanks to the committee led by John Mayes. The Women’s Group was active at “Energy Audit of the 80’s” and is looking forward to the 3rd International Symposium on Arctic Geology.

The “Public Service” provided by the Society continues to be a challenging aspect of several committees. Once again the Student-Industry Field Trip was a highlight of this part of the Society’s endeavours. Thirty-two students from across Canada gathered in Calgary from May 6 to 16 and met with the C.S.P.G. committee and members of industry who gave freely of their time to conduct tours, field trips and lectures. During their visit we had the pleasure to meet with a number of the participants who confirmed our conviction that this is the most important single Public Service function performed by the C.S.P.G. The new chairman of our 50th Anniversary Fund was chosen as an attendee for the Student-Industry Field Trip three years ago. We welcome Fred Pemberton and are confident that he will have the enthusiasm and convictions to make the fund capable of supporting the field trips without depleting its capital base.

The Petroleum Resource Communication Foundation (supported by C.S.P.G.) stressed energy self-sufficiency for Canada throughout most of its contact with the Canadian public in 1980. Published material plus media seminars in seven major Canadian cities and the submission of articles to various magazines as background stories about the Canadian oil and gas industry supported the endeavour. A second printing of the PRCF booklet “Our Petroleum Challenge” was prepared for distribution in February, 1981. The Honorary Address by Dr. R. Yeats drew a record audience of over 1800 paying attendees for his illustrated talk on the “1980 Eruption of Mount St. Helen’s.” Chris Hurrell is the new
chairman of the Education Committee and it is intended that this committee become directly involved with educators at the secondary school level, youth organizations and organizations requesting presentation of basic geological material to the public. All of the public service programs are a credit to the Society and should be maintained or expanded whenever possible.

In conclusion, I would point out that during the year Society committees have demonstrated the same willingness and capabilities which have brought us over the years to be regarded as one of the world’s leading geological societies. Our 3000 plus members can be proud of our publication, scientific and public service programs. The Society’s business has reached proportions that prompted your executive to approve the hiring of a full time employee to help with Society administrative duties. This employee will be hired in 1981.

The executive addressed two significant concerns of society members which resulted in the formation of two new committees. The Certification Investigative Committee will address geological professionalism, the need for certification and, if it is necessary, where the responsibility for this function should reside. The chairman of this committee, Gordon Williams, welcomes member input and requests assistance with the committee. The “National Energy Program” Committee was struck with the intent of making available to our membership, governments and the general public, the observed effect of this federal program on the employment of Canadian petroleum geologists. Results of the committee’s questionnaire to petroleum companies on this matter will be made available and periodic updates to monitor continuing effects will be conducted.

Many will say that these are political matters and not the concern of a technical society. To the contrary, I feel that we petroleum geologists must be concerned with professional standards and political programs that will affect our profession at the educational and employment levels.

CONVENTIONS AND SEMINARS


Energy Audit of the Eighties generated a net revenue in excess of $38,000 with an attendance of 977 registrants. The keynote speaker and technical paper sessions were of high calibre and the luncheon speaker sessions were sold-out functions. The many committee chairmen and their committee members did an outstanding job in providing an almost flawless program from the ice-breaker function through to the wind-up luncheon.

In many ways the Energy Audit of the 80’s Convention was a first for the Society. A broad spectrum of “renewable” resource papers from outside the C.S.P.G. were included in the technical program. In order to meet the objective of assessing what forms of energy would be available to what degree in the next decade, we provided many “megaproject” types of paper.
The papers and luncheon addresses on the Constitution and federal and provincial views were well received by an audience only too well aware of the importance of political circumstance to economic priorities. The field trips to the Fort McMurray heavy oil deposits and the Fernie Basin coal measures, although poorly attended, were excellent and well received.

The ice-breaker party held Sunday evening and the Tuesday evening Dinner Dance were lightly attended. This was likely due to the low out-of-town registration. Overall attendance of just under 100 was down from the previous year's C.S.P.G.-C.S.E.G. convention which was attended by a joint registration of 1352. Registration reduction is due to many other competing "energy crisis" forums, meetings, etc., and the fall date conflicted with numerous company budget meetings. The fall commitment was taken to avoid coinciding with the AAPG and GAC spring meeting dates.

A poster session was incorporated on a modest first time basis and the exhibits, a major revenue generator, did well in spite of the difficulty of attracting the exhibitor-oriented companies to a "geologists only" convention.

Registration fees were held to the previous year's $55 level and undoubtedly the significant revenues realized were due to the astuteness of the many committees who kept a sharp eye on expenditures.

The Convention Centre again provided an excellent turnkey infrastructure for such a convention and the special oversized screens imported by our Technical Committee added a new dimension to the slide displays.

The Society must acknowledge the enthusiastic and energetic efforts of the committee which contributed so much to the success of this conference. In addition, we acknowledge the tremendous support of the many companies who were generous in provision of staff time, use of equipment and financial support.


Planning is now nearing completion for this symposium to be held in the Calgary Convention Centre on June 30 to July 1, 1981. Over 110 papers have been submitted on regional geology, structure, stratigraphy, mineral resources, exploitation technology, and environmental problems of Arctic regions. The calibre of the technical program gives us a high degree of confidence in the success of this Symposium.

Over thirty members of C.S.P.G. are presently involved in the planning process for this event, the main committee chairmen being:

- General Chairman — E. E. Pelzer
- Assistant Chairman — F. G. Rayer
- Program Chairman — D. C. Waylett
- Finance — J. S. MacDonald
- Publications — A. F. Embry
- Field Trips — L. V. Hills
- Publicity — R. Coté
- Exhibits — R. Mercer
- Registration — Stan Johnson
- Entertainment — Don Smith, Gwen Carruthers
- Core Exhibit — Ken Roy

1982 C.S.P.G.-A.A.P.G. CONVENTION (J. S. MacDonald, General Chairman; R. McCrossan, Vice-chairman; P. Brown, Vice-chairman S.E.P.M.; E. Klovan, Technical
Program; L. Hills, Technical Program Editor; J. Frey, Entertainment; R. Maiklem, Ladies Committee; J. Ball, Housing Registration; J. Browning, Reception; D. Smith, Field Trips; C. Klappa, Speakers Breakfasts; B. Potter, Transportation; Y. Rivard, Printing and Posters; R. Pittman, Publicity; B. Miller, Technical Services)

The C.S.P.G. is host society for the 1982 A.A.P.G. Convention. This convention had over 9000 registrants for their Denver convention in 1980 and it is anticipated that registration in Calgary will be comparable. Because of concerns of the A.A.P.G. executive as to the ability of Calgary to handle a conference of this magnitude, it was necessary to make a presentation demonstrating our Society's and our city's abilities at the Denver meeting. This presentation was successful and Calgary was confirmed over New Orleans for the 1982 meeting.

The convention will run from June 27 to June 30, 1982, and will use much of the theatre capacity in the vicinity of the Convention Centre which will be filled with exhibits.

A meeting with the A.A.P.G. convention director and her staff in the fall of 1980 provided a better understanding of convention transportation and housing facilities in Calgary. Most committee chairmen have been selected and many calls for help will be going out. Volunteers should contact Jim MacDonald at Dome Petroleum.

INTERNATIONAL ASSOCIATION OF SEDIMENTOLOGISTS, XI CONGRESS — (I. A. McIlreath, J. Hopkins, A. D. Miall, F. W. Beales)

The Eleventh International Congress on Sedimentology is jointly sponsored by the Canadian Society of Petroleum Geologists and the Geological Association of Canada with the support of the Society of Economic Paleontologists and Mineralogists. The Congress will be held August 22 - 28, 1982 at McMaster University, Hamilton, Ontario. It is the first time that their meeting has been held in North America and only the second time it has been held outside Europe.

Planning for the Congress is well under way and the first circular is already out listing the proposed technical themes, symposia and field excursions across the country. Although the technical sessions cover a broad range of sedimentological topics a surprising number of these sessions are interdisciplinary with a direct bearing on petroleum geology. This is a once in a lifetime opportunity to meet expert sedimentologists from other countries and learn at first hand from them about the latest developments in the science.

If you are interested in attending this Congress it would greatly assist those planning the event if you would please answer the first circular. The Chairman is Gerard V. Middleton, Andrew Miall is the Technical Program Chairman and Peter Martini is in charge of Field Excursions.


This Calgary-based conference, scheduled for May 8, 1983, has been proposed as a joint international meeting of the Rocky Mountain Association of Geologists and the Canadian Society of Petroleum Geologists. The program, covering a broad range of topics, will emphasize some of the prime petroleum and gas plays of middle North America. Timeliness is demonstrated by current developments in the Deep Basin of Alberta, new discoveries and developments of tight gas areas in the United States, importance of low-yield Mesozoic zones as a result of increased prices for oil and gas, development of oil sands and heavy oil, and new discoveries in overthrust areas.
CONVENTION CONSULTANT (W. E. Flewitt)

Ed Flewitt assumed chairmanship of this committee at mid-year. It is intended to formalize the system whereby information is made available to incoming convention chairmen. Systematic statistical summaries and liaison with the Convention Centre and committees will receive the major attention.

PUBLICATIONS

BULLETIN OF CANADIAN PETROLEUM GEOLOGY (P. F. Sherrington, Editor)

During 1980, parts 3 and 4 of volume 27, and parts 1 and 2 of volume 28 were published. By year end, parts 3 and 4 of volume 28 were in press and should be published early in 1981. All parts of volume 29 should be published on schedule.

Volume 27 will contain a total of 24 papers, together with a number of discussion papers, book reviews, geological notes and a listing of postgraduate geology theses completed in Canadian Universities during 1979. Nine papers (27%) were rejected for a variety of reasons during 1980.

A three year term for the Associate Editors was introduced. To the five Associate Editors whose term expired in December 1980 — F. W. Beales, M. A. Carrigy, J. Galbreth, B. G. Langhus and A. E. Wren — the Editor extends his thanks for their help.

In addition to the Associate Editors, 63 technical referees have assisted in critically reviewing and evaluating manuscripts. It is through the continuing work of all these people that the high technical standard of Bulletin papers is maintained.

Through the efforts of the Index Committee under the chairmanship of Peter Hay, volume 27, part 4 contained a complete subject, N.T.S. area and author index. It is intended to continue this in future volumes.

As always, the Editor welcomes ideas, comments and criticisms from the Bulletin’s readers.

RESERVOIR (Fred DeWiel, Editor; Rory Hankel, Assistant Editor)

The Reservoir continues along the lines laid out by previous editors, but as the Society grows, so does the verbiage. Only 5 of the 11 annual issues were published in the traditional 8-page format; five times it took 12 pages and once 16 pages to get all messages across and aired. Membership participation has been gratifying, but more of it would be welcome.

With the recent proliferation of commercial continuing-education courses, demand for advertising space has grown to a level where the editors felt a line should be drawn. The current policy is to accept a maximum of 8 pages of coloured inserts per issue.

Copies produced increased from 3250 in 1979 to 3700 at the end of 1980.

GEOLOG (N. J. McMillan)

Geolog is the newsletter of the Geological Association of Canada. It is published and distributed quarterly. Each edition contains approximately 70 pages. It is the main non-C.S.P.G. vehicle by which C.S.P.G. events and activities of general national interest are printed and distributed.

A group subscription initiated in 1978 is offered through the C.S.P.G.

Summary: 1978 — 300 Subscriptions
         1979 — 210 Subscriptions
         1980 — 278 Subscriptions

Indexing of recent C.S.P.G. publications is continuing for eventual future update of the Subject-Author-N.T.S. Area Index, last issued in 1978. Access to this new indexed material is available on online terminal access through the Alberta Research Council's Geoscience Data Index System for Alberta. This updating will continue until the volume of new C.S.P.G. publications necessitates reissue of an updated Index. The 1978 Index contained references to 1,860 papers and since then about 350 new papers have been published by the C.S.P.G.

HIGHWAY MAP COMMITTEE, 1980 (Gordon Williams, Chairman)

No requests for assistance were received during the year. A highway map of Nova Scotia was published during the year by the Atlantic Geoscience Society who have acknowledged the assistance provided by the C.S.P.G. in getting the map started and providing initial financial support.

MEMBERSHIP DIRECTORY — (John B. Maher, Chairman)

During the past year a start has been made on a new computerized membership system for the society. M.J. Data Consultants, who have agreed to maintain the file at cost, worked with the society in developing a basic membership system program which will be updated monthly. A main feature of the system is that it is capable of providing computer-generated mailing labels for all C.S.P.G. regular publications and notices. This will allow direct mailing of the Reservoir and Bulletin and should significantly update our present mailing system. The system will also permit publication of an up-to-date yearly directory. It is hoped to have the system running smoothly by the fall of 1981.

LEXICON OF CANADIAN STRATIGRAPHY (Len Hills, Chairman)

Vol. 1 Arctic Archipelago (R. L. Christie and A. F. Embry, Co-chairmen) has been completed and is available for purchase.

Vol. 2 District of Mackenzie and Yukon (L. V. Hills and D. W. Morrow, Co-chairmen; edited by L. V. Hills, E. Sangster, L. Suneby, D. R. Braman, B. I. Chi, L. Eliuk, M. P. Cecile) has been completed and is available for purchase.

Vol. 3 Western Cordillera and Southwestern Yukon (W. R. Danner, Chairman; L. V. Hills) is about one third complete.

Vol. 4 Western Canada (P. A. Monahan, Chairman; D. Turner, D. Farquharson. D. Reid, D. Flagg, R. Dairs, G. Andrews. R. McKellar, K. Howells, D. Leonhardt, F. Stoakes). This lexicon has about 650 names completed of a total of approximately 1200.

Vol. 5 Central Canada, principally Ontario and Quebec (Thomas Bolton, Chairman; Bruce Liberty, L. V. Hills).

Vol. 6 Maritime Provinces and east coast offshore (Graham Williams, Chairman; L. V. Hills).

CANADIAN PALEONTOLOGICAL MONOGRAPH SERIES — (J. Jansonius, L. Hills, J. Doran, P. Currie, K. LaBorde, P. Sherrington, B. Van Helden, J. Wall)

The C.S.P.G. has agreed to act as a co-sponsor, together with the G.A.C., of a series of Canadian Paleontological Monographs. A joint Committee is to be made up of members from the C.S.P.G. and G.A.C. along with the two editors of the Societies. It is hoped that the Monograph Series will become a reality in 1981 or 1982.
GEOLOGICAL CALENDAR — (Bob Spring, Chairman)

The C.S.P.G. Geological Calendar was produced again this year. Alcraft Printing was awarded the contract for the third consecutive year. The production went well and on schedule. In early September, 4000 copies were printed and were on sale at the first luncheon of the season. Sales were handled by the regular luncheon ticket representatives and STACS. By Christmas, over 2500 copies had been sold.

M.SC. AND PH.D. THESES IN GEOLOGY AT CANADIAN UNIVERSITIES (Len Hills, Chairman)

The policy of publishing these titles has been continued and a list for 1980 will be published in the March issue of the Bulletin. Requests for theses, and numerous phone calls indicate that this is a worthwhile service and will be continued.

OIL AND GAS POOLS OF CANADA — (Harry Wheeler, Chairman)

This new committee has been formed and will prepare an explorationist-oriented description of typical or important pools. It will include petrophysical, seismic and geological data. The format is to be a three-ring binder, data will be cross-indexed and shall be mailed to subscribers on a regular basis. Sister societies such as the C.W.L.S. and the C.I.M. (Petroleum Section) have agreed to assist the C.S.P.G. with this project.

GEOLOGY OF THE NORTH ATLANTIC BORDERLANDS (Memoir 7) — (J. W. Kerr, A. J. Fergusson)

Minor problems with receipt of manuscripts have delayed this 30 paper memoir. It is, however, now nearing completion and anticipated publication date is now April of 1981.

OTHER SCIENTIFIC PROGRAMS

TECHNICAL SPEAKERS PROGRAM (D. A. McDonald, Chairman; D. Brooks, B. Mahaffey, B. Lyon, B. Miller, R. MacDonald, B. Carlton)

The program presented during 1980 was varied in content and scope to reflect current developments in exploration, development and technology. Selected speakers from government agencies, universities and industry across Canada and the United States presented topics at our luncheon meetings.

Twenty meetings were held during the year, all at the Calgary Inn:

January 15 - D. W. Scholl, "Resource Potential and Plate-Margin Geology of Frontier Basins of North America and Bering Sea"

January 23 - N. C. Wardlaw, "Some Important Properties of Rocks, Pores and Fluids that Affect Oil and Gas Recovery"

February 6 - P. Enos, "Diagenesis of a Giant: Poza Rica Trend, Mexico"

February 20 - R. T. Buffler, "Geologic History of Deep Gulf of Mexico Basin"

March 12 - J. C. Horne, "Application of Depositional Models in Coal Exploration and Mine Planning"

March 25 - A. Miller and J. Vandermeer, "Grosmont — Another Energy Giant for the Future"

April 9 - A. Miall, "Late Cretaceous Paleogene Sedimentation and Tectonics in the Canadian Arctic Islands"
May 1        R. Loucks, “Reservoir Quality in Tertiary Sandstones along Texas Gulf Coast”
May 14       F. G. Ethridge, “Fan-delta Sedimentology and Tectonic Setting — Yallahs Fan-delta, Southeast Jamaica”
May 30       P. L. Gordy, “Hydrocarbon Accumulations in the Overthrust Belt of Alberta”
June 20      N. Kumer, “Evolution and Petroleum Potential of Atlantic-type Margins: Case History of Brazilian Basins”
October 20   D. A. Jones, “Application of Basin Analysis to Exploration Strategy Determination:
October 30   J. C. Hopkins, “Sedimentology of Quartzose Sandstones of Lower Mannville and Associated Units, Medicine River Area, Central Alberta”
November 6   V. Schmidt and W. Almon, “Development of Diagenetic Seals in Carbonates and Sandstones”
December 3   J. C. Harms, “Clastic Depositional Models”
December 10  W. H. Roberts III, “Trap Boundary Hydrology”
December 18  J. R. McLean, “Early Cretaceous Depositional History and Paleogeography in the Alberta Foothills and Adjacent Plains”

The total attendance at the meetings was 17,136, a substantial increase over the attendance at the nineteen meetings in 1979. The average attendance of over 850 at the luncheon meetings clearly establishes these meetings as a fundamental activity of the Society, and indicates their importance as a means of disseminating information on a variety of other Society activities. No other geological society in the world holds regular meetings which approach the size of the C.S.P.G. meetings. The very popularity of these meetings, however, presents the greatest problem to their continuing in the present form since the only centrally located facility which can hold them is already stretched to the limits of its capacity. The committee is presently investigating the feasibility of a change in location, as well as changes in the ticket distribution system.

For the first time in many years a panel discussion meeting was held and its success suggests that this format should be repeated for other suitable topics.

CONTINUING EDUCATION (Keith Knox, Chairman; Peter Pilch)

In 1980 two Continuing Education Seminars were conducted as follows:

*Geophysics for Geologists*
April 14, 15, 16. Jubilee Auditorium.

This seminar, featuring two Calgary oil explorationists, Drs. Easton Wren and Neil Hutton was an outstanding success, with an attendance of 159.
Oil & Gas Reserve Estimation
December 1, 2, 3, Jubilee Auditorium.

This seminar featured Dr. John Lee, Professor of Petroleum Engineering, Texas A & M. Reports from the 90 attendees were that the course was excellent.

The surplus funds generated from the seminars for other Society activities totalled in excess of $4,700.

The Continuing Education Committee is planning two seminars for 1981; one of the topics will be a rerun of Geophysics for Geologists, the other is yet to be selected. In addition the Committee is expediting registration for the Pacific Rim Conference in February for the Pacific Geoscience Centre of the G.S.C. in Sydney, B.C.

A survey of the attendees and their company affiliations suggests that there is continuing need for the seminar series. The major percentage of “students” are from the intermediate and small independants: most majors have their own training programs.

HONORARY ADDRESS (Len Hills, Chairman)

Dr. R. Yeats presented his illustrated talk on the 1980 Eruption of Mount St. Helens at the Jubilee Auditorium November 4th. The lecture, a resounding success, was attended by more than 1800 people.

ONE-DAY FIELD TRIPS (Al Fischer, Chairman; Des Smith, Ted Watchuk, Mike Downey, Scott Trollope, Cathy Black, Greg Dyble)

The C.S.P.G. Field Trip Committee had a very successful year running five Saturday field trips. The 1980 field trips were:

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<th>No. of Participants</th>
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<td>Grassi Lakes —</td>
<td>May 30</td>
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<td>*Dr. Irmgard Weihmann</td>
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<td>White Man Gap</td>
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<td>*Dr. Rein DeWit</td>
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<td>*Dr. Hans Bielenstein</td>
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<td>Trap Creek — Lundbreck</td>
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<td>Alfred Fischer</td>
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<td>Trap Creek — Lundbreck</td>
<td>Aug. 9</td>
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<td>*Dr. Monti Lerand</td>
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<td>Alfred Fischer</td>
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<td>Mount Wilson</td>
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<td>*Dr. Jim Atkien</td>
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<td>Scott Trollope</td>
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<td>Calgary to Big Hill</td>
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<td>*Dr. Len Hills</td>
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The weather cooperated beautifully with the exception of the Calgary to Big Hill trip. The response that we have been getting indicates that the field trips were very well received. One observation is that the nature of the participants is changing more from the personally interested geologist to people being sent by their companies as part of an internal training program. More and more companies are using the field trips as an active component of their training programs. As a result there is tremendous demand for these trips which we as a committee have been trying to accommodate, by using two buses instead of one, adding 12-passenger vans or re-running the trips at a later date. The trips are usually filled within a week from the opening of registration and end up overbooked anywhere from 50 to 150%.

The total gross income was $11,541.61 and expenses were $11,456.77 leaving a residual bank balance of $84.84 (unaudited as of this date). The printing of guide books was done by Gulf Canada Resources Inc. and Shell Canada Resources Inc. Many thanks are due to these companies for their generous donation of time and money.

The committee would also like to extend their appreciation to the individual field trip leaders for their personal contributions and cooperation for without them these geological excursions would not be possible. Chairman for the 1981 Field Trip Committee will be Ted Watchuk.

C.S.P.G. STRATIGRAPHIC NOMENCLATURE COMMITTEE (S.N.C.)

E. H. Schultz, Chairman; D. H. Magnusson, Past Chairman; J. Dixon, Secretary; U. Wissner; Ed Wright; R. McWhae, N.A.C.S.N.; Roland deCaen, N.A.C.S.N.; Peter Sherrington. ex officio, Editor C.S.P.G. Bulletin.

The Committee reviewed, screened and approved five papers. These authors include M. E. McMechan & T. Hoy, R. McWhae et al., J. R. Patterson; N. C. Meijer Drees and D. W. Myhr; and C. E. Rouse & W. H. Matthews. Another author had his paper returned for further work.

For the first time the C.S.P.G. has had a representative on the International Commission on Stratigraphic Classification (I.S.S.C.) at a meeting in Paris in the person of Reink Lakeman. He reports that the Guide will be undergoing revision in the near future. Input from our Society would be welcomed.

The Committee has been attempting to keep the membership appraised of events relating to stratigraphic nomenclature in the Reservoir. We will be issuing a call for volunteers on our committee to build and replace those leaving.

The chairman has been taking an active part in the N.A.C.S.N. Code Revision as follows:

(a) As an active member of the Subcommittee on Chronostratigraphic Revision

(b) By placing a paper before the Chronostratigraphic Subcommittee and N.A.C.S.N. Commissioners on "The Chronosome and Lithochron — A Proposal for Enhancing Low Rank Chronostratigraphic Terminology" which will likely be published in the A.A.P.G. Bulletin.

(c) Serving a monitoring function for other facets of the code revision including Lithostratigraphy, Biostratigraphy and Quaternary geology, on behalf of C.S.P.G.

(d) As the C.S.P.G. designate Commissioner for the 1981-1983 term

R. McWhae and Roland deCaen attended N.A.C.S.N. meetings in Atlanta, Georgia, November 17-19. They report that Code Revision is on schedule, and a preliminary print should be available to interested members in the new year.
SPEAKER’S BUREAU (E. Greenwood)

The Speaker’s Bureau co-ordinated the Distinguished Lecture Tour and the Link Award Tour. These tours are visiting fifteen geology departments at universities across Canada.

DISTINGUISHED LECTURE TOUR (R. E. Deere, J. W. Zaturecky, M. H. Chambers)

Dr. Ray Price of Queen’s University presented his paper “The Cordilleran Overthrust Belt in Southern Canada: Its Regional Tectonic Implications, and its Role in Hydrocarbon Generation and Extratum” during January and February, 1981 to the following universities: British Columbia, Alberta, Calgary, Saskatchewan, Manitoba, McMaster, Waterloo, Western Ontario, Windsor and McGill. His tour was sponsored by the C.S.P.G.

LINK AWARD TOUR (K. R. Havard)

The fifth Link Award winner was Dr. Ian McIlreath of AGAT Consultants, with a paper titled: “Canadian Deep-water Carbonate Deposits: Distinction from Analogous Siliciclastic Deposits and their Hydrocarbon Potential”. His C.S.P.G.-sponsored tour took him to the following universities: Toronto, Ottawa, Queen’s, Lakehead, Regina and British Columbia. AGAT Consultants also contributed financially to the tour.

AWARDS

HONORARY MEMBERSHIP (G. G. L. Henderson, Chairman; J. A. Downing, M. E. Hrskiević, J. Law, T. A. Oliver)

The Honorary Membership committee considered ten nominees and recommended three for the Executive Committee’s approval. Honorary Membership will be awarded to D. J. Glass, R. J. Kirker and Dr. D. J. McLaren at the Society’s Annual Meeting in February.

TRACKS AWARDS (L. V. Hills)

This award is given to C.S.P.G. members or friends of the Society who have made a significant contribution to its success.

Recipients for 1979 and since the last annual listing are:

Paul Bennett .............. Chairman Bulletin Advertising Committee
Valdis Budrevics ........... Student-Industry Field Trip
James Dixon ............... Chairman, Medal of Merit
Al Fischer ................. Chairman, One-day Field Trips
Francis Gauthier .......... Student-Industry Field Trip
Keith Knox ................ Chairman, Continuing Education
Dave McDonald ............ Chairman, Technical Program
Andrew Miall ............. Editor, Memoir #6
Wayne Shephard ........... Student-Industry Field Trip

MEDAL OF MERIT (J. Dixon, Chairman; I. Halladay, I. Hutcheon, A. Kendall, K. Leskiw, G. Wright)

The Medal of Merit was initiated in 1951 and continues to be the highest award given by the C.S.P.G. The medal is offered to the author(s) of the most significant paper dealing with the petroleum geology of Canada’s sedimentary basins. Seventy journals were searched for eligible papers from which a short list of nine papers was obtained. Each of the nine papers was critically read, scored, ranked and commented upon by the committee members in order to determine the medal winner.
The winner of the 1979 Medal is:


The committee also would like to commend the following authors for their contributions to the petroleum geology of Canada:


LINK AWARD — (I. McLlreath, Chairman; H. Balkwill, I. Bond, R. Creed, P. Harte, J. Knight, J. MacRae, R. Mummery, M. Oliver, B. Shade, P. Sherrington, G. Zolnai)

This year only seven presentations at the C.S.P.G. luncheon meetings qualified for the Link Award. Each talk was evaluated by a minimum of eight of the committee members using a revised evaluation form. This year the intent of the Link Award has been changed from 100% for oral presentation to that of 60% for presentation and 40% for content and originality. There also has been a change in the rules of eligibility in that former Link Award winners will be ineligible to receive the award for a second time. It is hoped that this will encourage less experienced speakers, which is one of the purposes of the award.

John C. Hopkins was selected as the winner of the 1980 Link Award, which is an engraved pewter mug, for the presentation on October 30, 1980 of his talk "Sedimentology of Quartzose Sandstones of Lower Mannville and Associated Units, Medicine River Area, Central Alberta".

Honorable Mention was given to P. Gordy for his talk entitled, "Hydrocarbon Accumulations in the Overthrust Belt of Alberta" given on May 30, 1980.

GRADUATE STUDENT AWARDS COMMITTEE (Monti Lerand, Chairman; Bob Mummery; Les Eliuk; Ted Sawford; Dave Gibson; Ashton Embry; Murray Coppold; Dave McDonald; Herb Teitz; Wayne Brideaux; Tim Marchant; Paul Opalinski)

Winner of the best Doctorate Thesis for 1980 was Brian D. Ricketts, Carleton University, for the thesis entitled, "Sedimentology and Stratigraphy of Eastern and Central Belcher Islands, Northwest Territories".

Winner of the best Masters Thesis for 1980 was Brian R. Pratt, Memorial University, for the thesis entitled "The St. George Group (Lower Ordovician), Western Newfoundland: Sedimentology, Diagenesis, and Cryptalgal Structures".

This year the committee received 19 theses (7 Ph.D. and 12 M.Sc.) for evaluation, equal to the number last year; however, due to postal inefficiency three failed to meet the closing date for acceptance. Subject breakdown was as follows: clastic 5; carbonate 4; clastic-carbonate-volcanic 1; paleontology 3; Pleistocene-Recent sediments 2; mineralization 2 and geophysical 2. Geographically, 9 were from Western Canada, 7 from Central Canada and 3 from Eastern Canada. The largest number (four) from a single university was from the University of Calgary.

The quality of theses generally remains high, most contain information applicable directly or indirectly to the petroleum industry, and the reading of these, particularly for the
geological specialist, is highly recommended. It is difficult to avoid commenting on the
significant returns industry receives by financially supporting university research.

The committee members deserve much credit for the long hours spent reading, evaluat-
ing and judging the many theses. The job is difficult in that a final choice of one thesis in each
degree category requires that judges be highly critical, and in the final judging small differ-
ences loom large. Regrettably we cannot reward each author for a fine effort and I hope that
each one realizes that not to be chosen a winner is not in itself a sign of failure.

The contest was close among the finalists and to those not receiving awards the
following are singled out for honourable mention: Frank Stoakes (Ph.D.) for the thesis on
hardground, time-parallel marker beds in the Devonian Ireton Fm. which define shelf-slope-
basin accretion surfaces that illustrate the manner in which the inter-reef clastic facies was
deposited; Olugbenga Ogungbemi (Ph.D.) for the use of vitrinite reflectance and illite crystal-
linity to define diagenetic facies applicable to studies of both highly tectonized areas such as
the Appalachians near Quebec City and slightly deformed areas in prospective basins; Peter
Putnam (M.Sc.) for the practical subsurface application of the recently defined anastomosed
fluvial model and the aid it will provide to further use of the model in petroleum exploration
and development, and Adam Hedinger (M.Sc.) for the paleontology of Late Jurassic forami-
fera in the Mckenzie Delta area.

UNDERGRADUATE STUDENT AWARD COMMITTEE (L. V. Hills, Chairman)

This award is presented annually to an undergraduate student in each Canadian uni-
versity geology department who is considered by his professor to excel in fields relating to
petroleum geology. Basically, it is for the best “soft rock” student. The award consists of an
engraved certificate and a one-year student membership in the Society.

The 1980 awards were as follows:

Acadia: LYNN MARIE CALDER
Alberta: MAIJA FINVERS
Brandon: KENNETH WATSON
British Columbia: TIMOTHY D. ENGLAND
Brock: JEFFERY DONALD LEWIS BRACKEN
Calgary: PETER H. WUNTKE
Carleton: ROBERT CAMERON
Concordia: NORM HART
Dalhousie: JOHN FREDERICK NEWTON
Guelph: GREGORY JONES (1979)
             JAMES SIBLEY (1980)
Manitoba: ALEXANDER R. CARTER
McGill: DOUG SMITH
McMaster: DANIEL POTOCKI
Memorial: CYNTHIA SAUNDERS
Montreal: GEORGES DAGENais
Mount Allison: BRIDGET GAREY
New Brunswick (Fredericton): DALE van STEMPVOORT
New Brunswick (St. John): ROSE SINCH
Ottawa: FREDERIC DELENCOURT
Queen’s: KATHRYN M. GILLIS
Regina: BRIAN N. ROBB
Saskatchewan: STEPHEN HALABURA
St. Francis Xavier: JOCK GRAHAM
St. Mary’s: JANINE NOCK
Toronto: ALLAN BAXTER
Waterloo: KEVIN D. MCASH
Western Ontario: JANET BLOEMENDAL
Windsor: GARY F. CALDWELL.
C.S.P.G. STUDENT PAPER TROPHIES 1980 (Keith Bottrell, Chairman)

In 1977 the C.S.P.G. initiated presentation of a C.S.P.G. Trophy and a $50.00 C.S.P.G. Publications stipend, to be awarded for the best student paper presented at the Atlantic University's Geological Conference. A similar award, entitled the J. B. Webb Memorial Trophy is presented to the best student paper presented at the Western University Geological Conference. These trophies are to encourage excellence in oral presentation of geological topics.

JOHN B. WEBB MEMORIAL TROPHY

The J. B. Webb Trophy was awarded at the Western University Geological Conference (hosted by the University of Saskatchewan, January 24 to 28, 1980) to J. S. Dudley from the University of Calgary. His talk was entitled, "Zeolitic alteration of the Howson Facies Volcanics (Jurassic), British Columbia." The trophy was presented by Dr. W. O. Kupsch (acting Head), Department of Geological Sciences, University of Saskatchewan. Next year's W.I.U.G.C. will be in Edmonton from February 5 to 7, 1981.

C.S.P.G. TROPHY, ATLANTIC UNIVERSITY GEOLOGICAL CONFERENCE

During the Atlantic University Conference, October 24 to 26, 1980 Dalhousie University, Halifax, N.S., the C.S.P.G. Trophy was awarded to Miss Sherry Dunsworth, Department of Geology, St. Mary's University, Halifax, N.S. The title of her talk was, "Comparison of granitoids of the Peter Snout Area, southwest Newfoundland, with Uranium rich granitoids of western Europe." The C.S.P.G. representative at this Conference was Lubomir F. Jansa (East Coast Representative, C.S.P.G.) and the three judges were Dr. Paul Schenk (Dalhousie University), Mr. H. C. Teng (St. Francis Xavier University) and Mr. Barry Shade (Petro-Canada.)


A memorial fund was established early in 1980 to commemorate the contributions of the late R. J. W. Douglas to Canadian geology. Donations from approximately 100 individuals and companies are being used to establish the R. J. W. Douglas Medal to be presented annually by the C.S.P.G. The first award will be made at the C.S.P.G. Annual Meeting on February 19, 1981.

The medal has been designed by Mrs. Dora DePedery Hunt, a distinguished Canadian artist.

The R. J. W. Douglas Medal is to be awarded annually and is given to an individual for outstanding scientific contributions in the field of sedimentary geology within Canada. In keeping with the achievements of the late Dr. Douglas, the award seeks to recognize major contributions to regional tectonics and structural geology and to the general understanding of sedimentary rocks in Canada. The award is open to all geologists who follow Douglas's example in contributing to the development of Canada through their geological achievements.

R. J. W. DOUGLAS MEMORIAL MEDAL (J. C. Scott, Chairman; R. A. Price, J. O. Wheeler)

A total of six nominations were received by the award committee through the end of December. The committee agreed unanimously in recommending Dr. Harold Williams for the first Douglas Memorial Medal. The medal will be presented by Mrs. Winnifred Douglas at the C.S.P.G. Annual Meeting.
SPECIAL AWARD (R. D. Orr)

The executive may from time to time present a special award for outstanding contribution to the activities of the Society. This year two members were selected as recipients of this award. They are George G. Grant, General Chairman of the C.S.P.G.'s 1980 conference — Energy Audit of the 80's — which was both a technical and financial success; and Len V. Hills for his many contributions to the C.S.P.G. including Past President in 1980. Both deserve our highest commendation for their efforts.

BUSINESS COMMITTEES

MEMBERSHIP (James W. P. Robertson, Chairman)

The membership of the C.S.P.G. over the past five years is as follows:

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*As of December 31, 1980

Apart from 1978 (the Society's 50th Anniversary year), 1980 has shown the largest annual numerical increase in membership to date for the C.S.P.G. — up 229 from 1979. 1980 featured a number of membership drives in the various membership categories. Two membership drives for active members via the ticket sellers were held in the spring and fall, thanks to Bob MacDonald, C.S.P.G. ticket-sales co-ordinator. The notable increase in Corporate Membership reflects a comprehensive Corporate Membership drive held at the end of May when all non-C.S.P.G. member companies in Calgary were solicited for their support of the Society. In the fall, a nation-wide student membership campaign was initiated with 34 universities being contacted and the university liaisons asked to post an advertising supplement for the C.S.P.G. together with applications forms. This is a continuing program and it is hoped that the 1981 student membership will show an increase as a result of this campaign. A membership-status survey was taken at a C.S.P.G. luncheon in the late winter. Results showed 75 percent members and 25 percent non-members, which was thought to be an equitable distribution. 1981 will feature a continued emphasis on active member campaigns via ticket sellers. Thanks are in order to all those members who continue to encourage colleagues to join the Society thereby helping to increase membership.

NOMINATING (L. V. Hills, Chairman; F. Alcock, D. G. Cook, A. J. Fergusson, J. B. Maher)

The Nominating Committee's slate as completed in September included:

- President: one candidate
- Vice President: two candidates
- Secretary: two candidates
- Treasurer: two candidates
- Business Manager: two candidates
- Directors: four candidates

No additional candidates were nominated by the membership.
BY-LAWS (Paul Gagnon, Chairman)

The purpose of this committee is to review the Society’s by-laws and to recommend any revisions which would improve the operation of the Society. With a number of changes recommended by the past Chairman, R. E. Deere, being adopted on April 26, 1978, no further revisions were deemed necessary.

PRINTING (L. V. Hills, Chairman)

Preliminary printing estimates were solicited and final contracts executed for the printing of the following publications in 1980:

1) 1981 C.S.P.G. Calendar — by Alcraft
2) Memoir #7 Geology of the North Atlantic Borderlands
   Ed. by J. W. Kerr and A. J. Fergusson — McAre
3) Reservoir — Commercial Printers
4) 1981 Core Conference — Atomic Press

BULLETIN ADVERTISING — (Phil Hayes, Chairman)

Phil Hayes took over the position of Advertising Chairman from Paul Bennett who transferred to England in November 1980.

The number of commercial advertisers in 1980 remained about the same as in 1979. The number of new cards in the Professional Directory was up by 46 per cent. Advertising revenues are expected to be up slightly to $5,700.

PUBLICATION SALES (Gordon Steeves, Chairman)

1980 has been a very successful year for the Publication Sales Committee. A total of $60,000 has been received by the C.S.P.G. for the sale of our publications. This represents an average monthly income of $5,000 to the Society. These receipts are made up of the sale of Memoirs, Special Publications and Guidebooks and do not include the sale of the quarterly published Bulletin of Canadian Petroleum Geology. Stacs Record Centre Ltd. have continued to act as our Sales Agent and storage area. Due to the increasing volume of sales, it was necessary for Stacs to employ one person to handle C.S.P.G. sales exclusively.

DISCIPLINE (L. V. Hills, Chairman)

No matters pertaining to the ethical behaviour of members were brought forward for review by the committee in 1980.

ANNUAL MEETING (J. S. Bell, Chairman; M. J. Leith)

The Annual Meeting of the Society was held on February 14, 1980 at the Calgary Inn. Dinner was followed by the President’s address and the Treasurer’s report. Society awards and Honorary Memberships were presented and the new President, R. D. Orr, introduced Jack Peach who gave the keynote address entitled: “Over my Shoulder”.

GRANTS (G. Rae Morgan, Chairman)

Changes of government and general monetary restraint in 1980 made the obtaining of grants more difficult. The following were the sources and application of such funds during the year:

Arctic Lexicon
The Canadian Geological Foundation .................................................. $ 2,500
We are proceeding to try and obtain further support for the Arctic Lexicon and also funding for the publication of the Proceedings of the Arctic Symposium to take place in 1981.

SOCIAL EVENTS

C.S.P.G. GOLF TOURNAMENT (John Mayes, Chairman)

The 1980 C.S.P.G. golf tournament was the society’s 20th annual. It was held at the Calgary Elks Lodge and Golf Club on June 4, 5 and 6. A total of 144 golfers participated in the tournament which included, in addition to 34 holes of golf, a wine and cheese party, stag night, breakfast and awards banquet.

Brian McBeath will act as Chairman in 1981. We are looking forward to another successful tournament.

PUBLIC SERVICE

J. GALLAGHER LIBRARY — (G. E. Tebbutt, Chairman; U. L. Orgnero)

Early in the year, Ted Williams and Rejn de Wit resigned from the Gallagher Library Liaison Committee, after serving for several years devoting their efforts toward recommendations for improving communications between the geological community and the University Library. Gordon Tebbutt has assumed chairmanship of this Committee and would welcome any constructive advice or suggestions regarding its usefulness and continuing function.

The Gallagher Library of Geology and Geophysics, housed on the main floor of the Earth Sciences building, is now a part of the Environment-Science-Technology Division of the Main University Library. Yvonne Hinks, as Geosciences Librarian, is responsible for operation of the Gallagher Library and also for collection development (geology and geophysics) in both the Gallagher and Main Library (one budget). A Geology Library Committee comprising Drs. Wardlaw and Hopkins, Mrs. Hinks and Mr. Alan MacDonald (Chief Librarian) deals with library policy, planning and development.

The collection now includes approximately 8,000 books, 9,000 government documents, 1,250 maps and 82 periodical titles (20,000 items).

During the year, Mrs. Hinks succeeded in acquiring Heritage Fund grants totalling $6,000; other donations totalled $2,700 (plus matching government grants); and the Allan Whyte Memorial Fund provided $1,000 for purchase of literature on hydrodynamics.

Off-campus loans, mainly interlibrary loans to local companies, averaged 45 books and 500 photocopied pages per month. New nominal charges have been instituted for phoned orders, but mailed or drop-in requests are still free.

The Library also provides computer search services on geological data bases such as Georef and Tulsa Petroleum Abstracts.

Expenditures for 1979/80 were approximately $35,000 for the Gallagher Library alone, of which more than half was required for subscriptions to periodicals.

"Special Reader" privileges for the University libraries are now available to all C.S.P.G. members, upon presentation of their membership cards at the circulation desk, Main Library.

PUBLIC RELATIONS (Paul Batson, Chairman; Don Scharean)

The Public Relations Committee provides a liaison between the Society and the electronic media and press. The objective of this committee is to keep the members of the C.S.P.G.
and other professional societies, as well as the public and students attending Canadian universities, informed about our society’s activities.

Some of the more notable events which received publicity through our committee include the Student-Industry Field Trip, the Honorary Address by Dr. Robert S. Yeats entitled, “The 1980 Eruption of Mount St. Helens”, the Link Award Distinguished Lecture Tour by Dr. Ian McIlreath, and the Annual Meeting.

We look forward to continued communication and cooperation with the other committees and the new incoming executive.

BOOKBINDING COMMITTEE (Irmgard Weihmann, Chairman)

The bookbinding committee was inactive in 1980. Arrangements for bookbinding will be offered to members again towards the end of 1981.

ARCHIVES AND HISTORY (J. W. Porter, Chairman; W. McLellan)

Correspondence, including records and publications relating to our Society have continued to be received from past executive members and committee chairmen as well as individual members. This material is periodically transferred to the Rare Books and Special Collections Department, University of Calgary. Mrs. Jean Tener, Archivist and her staff have been responsible for its indexing and storage.

STUDENT INDUSTRY FIELD TRIP (Valdis Budrevics, Chairman; François Gauthier. Vice-chairman; Roy Smith, Calgary Activity Coordinator, Marc Tremblay, Logistics Coordinator; John Knight, Treasurer; Terry Weiss, Exploration Problem Coordinator; Hugh Balkwill, Gil Graf, Wayne Shepherd, Len Hills, Field Trip Leaders)

The 1980 Student Industry Field Trip took place May 6 — May 16 in Calgary and the southern Rocky Mountains. This year thirty-two students participated, representing thirty universities from across Canada. Participant comments recorded on the post-trip critiques showed that S.I.F.T. had successfully achieved its objective in exposing the students to a snapshot view of the milieu of the hydrocarbon explorationist in Calgary.

The S.I.F.T. program consists of four basic cornerstones; the five days in the field familiarizing the participants with the Western Canada Basin sedimentary section; the five days of in-town activities that are staged by industry and allow the student a first hand look at the varied operations of hydrocarbon exploration; the overflight of the southern Rocky Mountains to illustrate the principle structures in the area; and the exploration problem which forces the participant to learn teamwork and to apply some of his newly acquired knowledge and skills in the search for hydrocarbons in a competitive atmosphere. This year’s winning team of the exploration competition was Martin Froelich ( Carlton University), Brian Robb (University of Regina), Waldmar Gamp (University of British Columbia) and Claire Derome (Université de Quebec, Montreal).

The committee thanks the many industry people and C.S.P.G. members who helped make this endeavour an unqualified success and looks forward to their continued support in the future.

C.S.P.G. FIFTIETH ANNIVERSARY FUND (Neil Thiessen, Chairman)

The 50th Anniversary Fund saw very modest growth in 1980 reaching $157,000 by year-end.

The capital in the fund was put into an Investment Management Account in March of 1980, resulting in somewhat improved yields. Effective January, 1981, long-term large volume term deposits will be utilized thus further maximizing the yield. Internal growth
alone should account for more than $18,000 per year. Effective January, 1981, Fred Pember assumes chairmanship of this committee.

DIVISIONS

STRUCTURAL GEOLOGY (D. A. C. Gardner, Chairman)

The Structural Geology Division continued to hold regular monthly meetings during 1980, attracting a keen group from the Industry, University of Calgary and the Geological Survey of Canada. A talk in January, 1980 by François Montandon (Quasar Petroleum) on the Triassic gas play in the British Columbia foothills attracted the largest crowd of the year, filling the boardroom of the Institute of Sedimentary and Petroleum Geology to overflowing. Other equally well presented talks covered subjects from the plate tectonic evolution of the Arctic Ocean Basin (P. B. Jones), and the influence of dextral transform faults on the evolution of the Cordilleran Collage (D. K. Norris); to the controversial subject of evidence for Paleozoic orogenic events in the Canadian Cordilleran (A. Okulitch).

Other highlights of the year included a field trip in June through the Kananaskis area led by Walter Wegmuller, and the annual slide night in December where subjects ranging from examples of fold hinge collapse structures, to evidence of tectonic pressure solution in Cretaceous deep-water carbonate of the Northern Appennines to evidence of Cambrian stratal involvement in the northern Alberta foothills, were discussed.

During 1980 the Division successfully accomplished its goal of stimulating informal discussion among members of the geological community in Calgary who have an interest in the subjects of structural geology and tectonics.

GEOCHEMISTRY (Trevor Powell, Chairman; Paul Gunther, Program Director)

A revival of interest in geochemistry amongst C.S.P.G. members has resulted in a more active year. Four lunch hour meetings were held during the course of the year.

Jan. 22  T. G. Powell (I.S.P.G.) Geochemistry of East Coast Oils and Condensates
         L. R. Snowdon (I.S.P.G.) The role of cluster and factor analysis in crude oil correlation

March 18  S. Creaney (Esso) Intercorrelation of organic geochemical and organic petrographic data

Nov. 4    T. G. Powell and L. R. Snowdon (I.S.P.G.) Reservoired hydrocarbons in immature regimes — indigenous or migrated?

Dec. 2    M. J. Whiticar (Petro-Canada) Early diagenetic methane: limits and effects

It is anticipated that this revival of interest will continue into 1981.

GEOMATHEMATICS (D. A. Clark, Chairman; W. R. S. McLellan, Vice-Chairman; R. G. Ball, Secretary; D. Flint, Program Director; P. J. Lee, R. Bugray, E. Montgomery, S. Carroll, H. Sherazi)

The Geomath Division had a satisfactory and busy year in 1980. Membership was maintained at approximately 150, with attendances at the meetings averaging about 50.

Five noon hour talks were held. The topics were ‘Salinity Corrections in Hydro Geology’ by Peter Moore, ‘Reservoir Simulation’ by Dr. Khalid Aziz, ‘The Most Predictable Surface Mapping Method in Facies Analysis’ by Dr. P. J. Lee, ‘Interpolation — Geologic & Otherwise’ by Wayne Griffin, and ‘The Energy Resources Data System’ by Dick Angus.
A "Symposium on the Evaluation of Petroleum Resources" is being organized by the Officers and Committee Members to be held January 20 and 21, 1981. Two projects, carried over from last year are in the final stages of completion. The first, under the editorship of P. J. Lee, is the publication of papers presented at the Mapping Seminar held November 30, 1978. Publication is scheduled for June 1981. The second project is the inter-company, industry wide survey of computer facilities which support petroleum geological data processing. The questionnaires are in the final printing stages. Results of the survey will be available to all participants in the survey.

PALEONTOLOGY (B. G. Van Helden, Chairman; K. LaBorde, Secretary; R. Price)

Between December 17, 1979 and December 11, 1980, six luncheon meetings were held in the Petro-Canada Conference Room, Guinness House. An average of 23 paleontologists attended the following presentations:

A. Hedinger (Amoco) — "Late Jurassic Foraminifera, Aklavik Range. District of Franklin."


K. C. Vervloet (Gulf Oil) — "Paleoecology of the Awingak and the Ringness Formations in the Western Sverdrup Basin."

R. McLean (Amoco) — "Ordovician-Silurian Rugose Corals from Australia."


R. Price (Amoco) — "Mid-Cretaceous (Albian to Turonian) unconformities in Northwest Europe as indicated by Foraminifera — a comparison with the North American Western Interior and East Coast Canadian Sequences."

In addition to these luncheon meetings, a highly successful one-day field trip to the Kananaskis area was organized, guided by Dr. A. McGugan (University of Calgary) and Dr. W. Bamber (I.S.P.G.) for eighteen paleontologists.

G. Dolby (Robertson Research) acted as representative on the C.S.P.G. Research Committee and the Alberta Paleontological Advisory Committee.

The 1984 ICP meeting will be held in Calgary. L. V. Hills (University of Calgary) and J. Jansonius (Imperial) have been elected members of the organizing committee for this event.

A schedule for monthly luncheontime presentations has been set up for the coming year.

At a somewhat chaotic but thoroughly enjoyable meeting on December 11, 1980, the following were unanimously elected for the year 1981:

Chairman — J. Utting (Petro-Canada)
Secretary — M. Oliver (Robertson Research)
Committee Member — R. Price (Amoco)

SEDIMENTOLOGY (Ashton Embry, Chairman; Jim Dixon, Program; Les Eliuk, Secretary)

The division continued to provide a forum for sedimentological information. Nine excellent talks were presented and covered a wide variety of topics.

January 24: D. Smith, University of Calgary — Sedimentation in anastomosed fluvial systems, an interpretation applied to coal deposition in the molasse of Alberta.
February 13: J. Hopkins, University of Calgary — Carboniferous clastic depositional environments of the Appalachians — slide show and review based on an AAPG field course.


September 10: B. Williams, Bristol University — Fluvial Facies Developments in the Old Red Sandstone of southern Britain.


November 19: T. Storey, Teknika — Time Control in Stratigraphy

December 17: H. Geldsetzer, I.S.P.G. — The Windsor Group of New Brunswick: sediments deposited in a Zechstein-like embayment during Late Visean (Mississippian) time.

The Core Conference has been arranged under the direction of Frank Stoakes and will run on January 15 and 16, 1981.

Jim Dixon has resigned as Program Chairman and has been replaced by Les Eliuk. Jim's hard work which produced a fine program over the past two years is greatly appreciated.

WOMEN'S GROUP (Audrey Alcock)

The C.S.P.G. Women's Group was active in the Energy Audit of the 80's Conference held from September 28 to October 1, 1980.

The ladies worked at the registration desks and enjoyed a successful luncheon and fashion show during the conference.

Looking ahead in 1981, we are planning an exciting ladies program for the 3rd International Symposium on Arctic Geology which takes place from June 28 to July 1, 1981.

AREA REPRESENTATIVES AND UNIVERSITY LIAISON

UNIVERSITY REPRESENTATIVES

The major objectives are, firstly to improve communications between the Society and staff and students of the geology departments, and secondly to have a local C.S.P.G. representative ensure that each department is taking advantage of the offers of speakers and awards that the Society provides.

Items of particular interest in which the representatives assist are the Distinguished Lecture Tour, Link Award Speaker, C.S.P.G. Student-Industry Field Trip, University Geological Conferences, and graduate and student awards. The Society hopes that by publicising its activities through these university contacts it will gain more student members.
### Participating Universities and Their Representatives

<table>
<thead>
<tr>
<th>University</th>
<th>Liaison Representative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acadia</td>
<td></td>
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<tr>
<td>Alberta</td>
<td>N. Rutter</td>
</tr>
<tr>
<td>Brandon</td>
<td>Harvey R. Young</td>
</tr>
<tr>
<td>British Columbia</td>
<td></td>
</tr>
<tr>
<td>Brock</td>
<td>B. Liberty</td>
</tr>
<tr>
<td>Calgary</td>
<td>I. Hutchison</td>
</tr>
<tr>
<td>Carleton</td>
<td>R. Yole</td>
</tr>
<tr>
<td>Concordia</td>
<td>K. K. Mukerji</td>
</tr>
<tr>
<td>Dalhousie</td>
<td>L. Jansa</td>
</tr>
<tr>
<td>École Polytechnique</td>
<td>Marc G. Tanguay</td>
</tr>
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<td>Guelph</td>
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<tr>
<td>Lakehead</td>
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<td>Laurentian</td>
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<td>Laval</td>
<td>R. Trempe</td>
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<td>Loyola</td>
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<td>Manitoba</td>
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<tr>
<td>McGill</td>
<td>E. W. Mountjoy</td>
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<td>McMaster</td>
<td>G. V. Middleton</td>
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<td>N. P. James</td>
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<td>Montreal</td>
<td>C. Hubert</td>
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<td>Mount Allison</td>
<td>L. Ferguson</td>
</tr>
<tr>
<td>New Brunswick (Fredericton)</td>
<td>L. T. Trembath</td>
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<td>New Brunswick (St. John)</td>
<td>A. Logan</td>
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<tr>
<td>Ottawa</td>
<td>R. Yole</td>
</tr>
<tr>
<td>Queen’s</td>
<td>R. A. Price</td>
</tr>
<tr>
<td>Regina</td>
<td>J. E. Christopher</td>
</tr>
<tr>
<td>Saint Mary’s</td>
<td>David Hope-Simpson</td>
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<tr>
<td>St. Francis Xavier</td>
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<tr>
<td>Saskatchewan</td>
<td>W. G. E. Caldwell</td>
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<tr>
<td>Sir George Williams</td>
<td></td>
</tr>
<tr>
<td>Toronto</td>
<td>F. W. Beales</td>
</tr>
<tr>
<td>Victoria</td>
<td>C. J. Yorath</td>
</tr>
<tr>
<td>Waterloo</td>
<td>R. W. Macqueen</td>
</tr>
<tr>
<td>Windsor</td>
<td>F. Simpson</td>
</tr>
<tr>
<td>Western Ontario</td>
<td>A. Lenz</td>
</tr>
</tbody>
</table>

### Area Representatives

**Victoria (K. A. McAdam)**

1980 was an inactive year with no active committees and no immediate plans for future activity. With reference to the B.C. Geological Highway Map, the Mineral Resources branch has nearly completed compilation. Final material is scheduled to go to the printer at the end of February and the publication will be generally available this spring.

**Saskatchewan (J. E. Christopher)**

The Saskatchewan Geological Society continued its monthly sessions of lectures drawing speakers from across the continent.

Highlight of the year was the Symposium and Core Seminar ‘Lloydminster and Beyond — Geology of Mannville Hydrocarbon Reservoirs’, the papers from which were published as Special Paper no. 5. The conference was attended by 210 and the consensus ruled it a success. The Society thanks the C.S.P.G. for their advertising support in this venture.
Another event was the 5-day field trip sponsored by the Society to the Stillwater Complex of Montana and the Crater of the Moon National Park in Idaho. A shorter trip was also taken to explore the Potash Mine at Lanigan, Saskatchewan.

With the growth of the Uranium Industry in Saskatoon, a nucleus for another geological society is growing there. The Regina-based Society is finding it difficult to maintain the logistics for good liaison between the cities.

DARTMOUTH-HALIFAX (L. F. Jansa)

Another peaceful year has rolled around for the East Coast Society Members, the number of which surprisingly has not grown in expectation of increased success in offshore oil exploration. This year the members of the Society were involved in the organization of a highly successful annual meeting of the Geological Association of Canada and the Mineralogical Association of Canada, held in May in Halifax. The Geological Highway Map of Nova Scotia, the compilation of which was initiated by the regional C.S.P.G. group, has been completed by members of the Atlantic Geoscience Society and published with the assistance of the Nova Scotia Department of Mines. Copies of this map were presented to registrants of the GAC/MAC Meeting in Halifax. It is now available for the modest sum of $3.50 through the Nova Scotia Government Bookstore and the Nova Scotia Department of Mines.

The recipient this year of the C.S.P.G. Trophy for excellence in oral presentation of a geological topic at the Atlantic Universities Geological Conference was Miss Sherry Duns- worth from the Department of Geology St. Mary's University, Halifax. Her paper was entitled "Comparison of Granitoids of the Peter Snout Area, Southwest Newfoundland with Uranium-Rich Granitoids of Western Europe". The C.S.P.G. Trophy was presented to her by L. Jansa.

OTTAWA (D. F. Sherwin)

During the year, some two dozen Society members held to their sober traditions in Ottawa, undaunted by hostile cries emanating from colleagues in Western Canada in response to the National Energy Program (for which local members take no credit).

The Logan Club of the Geological Survey sponsored three distinguished lectures during the year:


At Carleton University, the visiting lecturers series brought Paul Schenk of Dalhousie to speak on Nova Scotia as a Chip Off Africa, and Colin Barker of the University of Tulsa on Plate Tectonics and Geochemistry.

LIAISON REPRESENTATIVES

NORTH AMERICAN COMMISSION ON STRATIGRAPHIC NOMENCLATURE (Uli Wissner, Ross McWhae, E. H. Schultz)

See C.S.P.G. Stratigraphic Nomenclature write-up in Other Scientific Programs Section.

A.P.E.G.G.A./C.S.P.G. LIAISON

Since R. J. Kirkella left us for Australia this liaison has been carried out by the president: first, L. V. Hills, then R. D. Orr. At present this liaison serves as an information service to A.P.E.G.G.A. and hence other professional societies regarding such things as publications
and dates of conferences and meetings. Two meetings of this liaison group were held during
the year. Because of the strong feelings expressed during 1980 in the Reservoir and at our
noon panel discussion on Professionalism and A.P.E.G.A., we feel that this liaison will
become increasingly important and should stay with the executive.

WORLD PETROLEUM CONGRESS (M. E. Hriskevich)

Early in 1980, a Nominating Committee was struck in order to propose for election the
Executive and individual members of the Canadian National Committee for the 11th World
Petroleum Congress to be held in 1983. The Executive Officers of the Canadian National
Committee are as follows:

Chairman: J. L. Tiedje, Imperial Oil Limited
1st Vice chairman: G. G. L. Henderson, Chevron
2nd Vice-chairman: K. Aziz, University of Calgary

In addition, 18 Sponsoring Members and 13 Associate Members comprise the Canadian
Committee; the C.S.P.G. is one of the Associate Members.

The Canadian Scientific Program Committee, under the chairmanship of Dr. K. Aziz,
has also been organized and comprises 7 members of which the C.S.P.G.'s representative is
one.

The members of the Canadian National Committee have been asked to submit sugges-
tions for papers and authors for presentation at the Panel and Round Table Discussions. In
addition, the names of individuals who could act as Chairmen or Vice-chairmen for the
various technical sessions have been requested.

Within the next several months, the Society will be approached regarding specific
papers which might be presented at the forthcoming 11th World Petroleum Congress sched-
duled for London in 1983.

PETROLEUM RESOURCES COMMUNICATION FOUNDATION (Robert M. Creed,
C.S.P.G. Liaison)

The Petroleum Resources Communication Foundation stressed energy self-sufficiency
for Canada throughout most of our contact with the Canadian public during 1980. This was
achieved through the Speaker's Bureau, published material and advertisements in the
Canadian media. In addition, a series of media seminars were held in seven major cities in
1980 and the PRCF submitted articles to various magazines as background stories about the
Canadian oil and gas industry. PRCF conducted a nation-wide opinion poll and in addition
joined industry survey groups for a second opinion poll. The PRCF films, 'The Canadian
Connection', and 'Natural Gas' are still being distributed to the Canadian public. In addition
the PRCF photo library was extensively used throughout 1980.

The PRCF Speaker's Bureau handled 52 engagements in 1980. These addresses were
complemented by additional media coverage, newspaper articles and TV and radio inter-
views. The bureau has expanded to 66 volunteer spokesmen, and two training seminars were
held in September of 1980. The basic speech this year was based on the self-sufficiency
theme.

A second printing of the PRCF booklet 'Our Petroleum Challenge' was prepared in 1980
and 67,500 copies were printed and distributed during the year. A revised edition of 100,000
copies both in English and French will be available for distribution by mid-February 1981.

A series of media seminars were held in seven major cities in the fall of 1980 with the
objective to familiarize media representatives with the fundamentals of the Canadian oil and
gas situation. In addition, the PRCF submitted several articles to various magazines as
background stories about the oil and gas industry.
The theme of self-sufficiency was carried through both the TV and advertising campaigns throughout 1980. Three thirty-second TV advertisements were run nationally on the CTV network stations as part of a 13 week campaign and were seen by an estimated 85% of the population an average of nine times.

NATIONAL CONFERENCE ON EARTH SCIENCE, 1980 (G. D. Williams)

The eighteenth annual National Conference on Earth Science was held at the Banff Centre for Continuing Education from May 4 to 8, on the topic "Earth Movements—Causes and Effects". This was followed by a three-day field trip through the Cordillera from Banff to Vancouver. Conference leaders were A. W. Bally (Shell Development Company, Houston, Texas), C. Beaumont (Dalhousie University, Halifax, Nova Scotia), J. W. Head (Brown University, Providence, R.I.), E. R. Oxburgh (Cambridge University, Cambridge, England) and R. I. Walcott (D.S.I.R., Wellington, N.Z.). The trans-Cordilleran field trip was led by J. W. H. Monger (G.S.C., Vancouver, B.C.) and R. A. Price (Queen's University, Kingston, Ontario). Approximately 55 people attended the conference and 26 participated in the field trip.

The 1981 conference is scheduled for Banff from May 3 to 8 on the topic "Paleoclimatology and the Geologic Record". Leaders will be J. G. Cogley (Trent University, Peterborough, Ontario), L. A. Frakes (Monash University, Clayton, Aust.), J. G. Lockwood (University of Leeds, Leeds, England) and A. M. Ziegler (University of Chicago, Chicago, Ill.).

1980 EXECUTIVE COMMITTEE

President        A. E. (Fred) Calverley
Vice-president   A. Neil Hutton
Secretary        Kathleen R. Arthur
Treasurer        James (Tim) Thompson
Business Manager Robin C. B. Gourlay
Director         Robert M. Creed
Director         John C. Hopkins
Past-president   Robert D. Orr
1980 FINANCIAL REPORT

HARVEY S. ROBINSON

Treasurer

This report covers the fiscal period December 1st, 1979 to year end
November 30th, 1980 and includes all of the pertinent financial
statements prepared by our auditors, Touche Ross & Co.

These statements indicate that the Society is in a very sound financial
position with members equity of $292,307.00 at the end of the year,
after a gain of $89,985.00 for the year. This gain can be primarily
attributed to two sources; namely, the highly successful Energy Audit
of the 80's Conference, coupled with accrued bank and bond interest.
Accordingly, the balance of the year's operations were basically
conducted on a "break even" basis, where revenues and expenditures
were in balance, and covered the efforts of over 65 committees.

The Bulletin and Reservoir, paid for out of general (membership)
revenue, are the largest operating expense of the Society. A further
substantial expenditure was incurred when the executive decided to
underwrite the Student-Industry Field Trip so that the 50th Anniversary
Fund could continue to build. Other committees covered a wide range
of endeavour from technical to social, including conferences, luncheons,
education, awards, new publications and university liaison. These
committees, all manned by volunteer labour, worked hard and efficiently
to continue and maintain the high quality that has become the mark of
the Society. To their untiring efforts and another successful year —
thank you.
AUDITORS' REPORT

The Members
Canadian Society of Petroleum Geologists

We have examined the Operating Fund and the 50th Anniversary Trust Fund balance sheets of the Canadian Society of Petroleum Geologists as at November 30, 1980 and the Operating Fund statement of revenue and expenditure for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as we considered necessary in the circumstances except as explained in the following paragraph.

In common with many non-profit organisations, the Society derives its revenue in the form of memberships and other fees which are not susceptible to complete audit verification. Accordingly, our verification of revenue was limited to accounting for the amounts recorded in the records of the Society.

In our opinion, except for the limitation in our examination as referred to in the preceding paragraph, these financial statements present fairly the financial position of the Society as at November 30, 1980 and the results of its operations for the year then ended in accordance with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

Calgary, Alberta
February 9, 1981

Touche Ross & Co
Chartered Accountants
# CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

## OPERATING FUND

**BALANCE SHEET AS AT NOVEMBER 30, 1980**

### ASSETS

<table>
<thead>
<tr>
<th></th>
<th>1980</th>
<th>1979</th>
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<tbody>
<tr>
<td>Current assets</td>
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<tr>
<td>Cash</td>
<td>$76,749</td>
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<td>Term deposits</td>
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<td>Canada Savings Bonds, at cost (Note 3)</td>
<td>15,000</td>
<td>15,000</td>
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<td>Accrued interest receivable</td>
<td>18,579</td>
<td>11,375</td>
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<td>Accounts receivable</td>
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<td>Inventory of publications, at lower of cost and amortized value (Note 2)</td>
<td>43,565</td>
<td>37,822</td>
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<td>Prepaid calendar expense (Note 3)</td>
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<td>Equipment, at nominal value</td>
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<tr>
<td><strong>Total Assets</strong></td>
<td>$371,699</td>
<td>$339,289</td>
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### LIABILITIES

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<tr>
<td>Current liabilities</td>
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<tr>
<td>Accounts payable</td>
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<tr>
<td>Publications printing costs</td>
<td>$33,750</td>
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<td>Due to 50th Anniversary Trust Fund</td>
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<td>Other</td>
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<td>45,241</td>
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<td><strong>Total Current Liabilities</strong></td>
<td>46,477</td>
<td>99,516</td>
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**Deferred revenue**

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<tr>
<td>Dues and subscriptions</td>
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<td>32,452</td>
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<tr>
<td>Government grant - Memoir 6</td>
<td>-</td>
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<tr>
<td><strong>Total Deferred Revenue</strong></td>
<td>32,916</td>
<td>37,452</td>
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**MEMBERS' EQUITY**

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<tr>
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<th>1980</th>
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<tr>
<td>Members' equity at beginning of year</td>
<td>202,322</td>
<td>118,462</td>
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<tr>
<td>Net income for the year</td>
<td>89,985</td>
<td>83,860</td>
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<tr>
<td>Members' equity at end of year</td>
<td>292,307</td>
<td>202,322</td>
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### CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS 50TH ANNIVERSARY TRUST FUND

**BALANCE SHEET AS AT NOVEMBER 30, 1980**

<table>
<thead>
<tr>
<th></th>
<th>1980</th>
<th>1979</th>
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</thead>
<tbody>
<tr>
<td>Cash and term deposits</td>
<td>$157,206</td>
<td>$106,850</td>
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<tr>
<td>Accrued interest receivable</td>
<td>228</td>
<td>5,100</td>
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<tr>
<td>Due from Operating Fund</td>
<td>-</td>
<td>25,000</td>
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<tr>
<td><strong>Total Funds</strong></td>
<td>$157,434</td>
<td>$136,950</td>
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### BALANCE OF FUND

<table>
<thead>
<tr>
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<th>1980</th>
<th>1979</th>
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<tr>
<td>Balance of fund at beginning of year</td>
<td>$136,950</td>
<td>$10,067</td>
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<tr>
<td>Contributions during the year</td>
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<td>114,472</td>
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<tr>
<td>Interest earned on investments</td>
<td>14,088</td>
<td>12,411</td>
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<tr>
<td><strong>Balance of fund at end of year</strong></td>
<td>$157,434</td>
<td>$136,950</td>
</tr>
</tbody>
</table>
1980 REPORT OF ACTIVITIES

Touche Ross & Co.

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS
OPERATING FUND

STATEMENT OF REVENUE AND EXPENDITURE
FOR THE YEAR ENDED NOVEMBER 30, 1980

<table>
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<tr>
<td>General (Note 4)</td>
<td>$115,585</td>
<td>$22,838</td>
<td>$92,747</td>
<td>$57,666</td>
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<td>Publications (Note 5)</td>
<td>27,331</td>
<td>22,958</td>
<td>4,373</td>
<td>14,326</td>
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<tr>
<td>Bulletin (Note 6)</td>
<td>13,444</td>
<td>42,693</td>
<td>(29,249)</td>
<td>(37,842)</td>
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<td>Technical program</td>
<td>112,744</td>
<td>100,727</td>
<td>12,017</td>
<td>11,501</td>
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<tr>
<td>Conferences</td>
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<tr>
<td>&quot;Energy Audit of the 80's&quot;</td>
<td>106,912</td>
<td>67,224</td>
<td>39,688</td>
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<tr>
<td>1979 &quot;Exploration Update&quot;</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>57,850</td>
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<tr>
<td>Calendars</td>
<td>6,815</td>
<td>8,239</td>
<td>(1,424)</td>
<td>823</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Douglas Memorial Fund</td>
<td>4,540</td>
<td>-</td>
<td>4,540</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newsletter &quot;Reservoir&quot;</td>
<td>9,104</td>
<td>11,942</td>
<td>(2,838)</td>
<td>(6,812)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Membership directory</td>
<td>-</td>
<td>9,472</td>
<td>(9,472)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual golf tournament</td>
<td>33,585</td>
<td>33,073</td>
<td>512</td>
<td>1,494</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student industry field trips</td>
<td>31,368</td>
<td>29,839</td>
<td>1,529</td>
<td>(13,640)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One day field trips</td>
<td>11,771</td>
<td>10,934</td>
<td>837</td>
<td>421</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual meeting</td>
<td>4,384</td>
<td>6,163</td>
<td>(1,779)</td>
<td>(1,781)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ladies' group</td>
<td>769</td>
<td>289</td>
<td>480</td>
<td>(476)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuing education</td>
<td>7,860</td>
<td>5,113</td>
<td>2,747</td>
<td>4,747</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geomatth seminar</td>
<td>-</td>
<td>2,000</td>
<td>(2,000)</td>
<td>3,246</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Awards</td>
<td>-</td>
<td>1,293</td>
<td>(1,293)</td>
<td>(1,464)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speakers bureau</td>
<td>-</td>
<td>819</td>
<td>(819)</td>
<td>(1,600)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Atlantic work shop</td>
<td>-</td>
<td>360</td>
<td>(360)</td>
<td>1,518</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baillie symposium</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>8,827</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1978 core conference</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1,198</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contribution to 50th Anniversary Trust Fund</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>(25,000)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contribution to student industry field trips</td>
<td>-</td>
<td>25,000</td>
<td>(25,000)</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>5,789</td>
<td>1,040</td>
<td>4,749</td>
<td>(1,142)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>$492,001</strong></td>
<td><strong>$402,016</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Net income for the year $89,985 $83,860
CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

NOTES TO THE FINANCIAL STATEMENTS

NOVEMBER 30, 1980

1. ACCOUNTING POLICIES

   Capital transactions

   It is the Society's policy to expense all capital purchases in the year of acquisition. This policy is consistent with procedures used in accounting for non-profit organizations.

   Inventories

   It is the Society's policy to value its inventory of publications at cost if published in the current year and thereafter at an amortized value based on cost reduced by 20% per year for each year after publication. Grants received towards publications are netted with such costs.

   Prepaid calendar publications

   Printing costs of calendars relating to the next calendar year are shown as prepaid expense with revenue from such calendar sales being credited to this account.

2. INVENTORY

   The inventory at November 30, 1980 consists of the following:

<table>
<thead>
<tr>
<th></th>
<th>1980</th>
<th>1979</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior year's publications</td>
<td>$14,670</td>
<td>$29,580</td>
</tr>
<tr>
<td>Current year publications</td>
<td>28,895</td>
<td>8,242</td>
</tr>
<tr>
<td></td>
<td>$43,565</td>
<td>$37,822</td>
</tr>
</tbody>
</table>

3. CANADA SAVINGS BONDS

   The Canada Savings bonds matured in November, 1980 and the principal sum of $15,000 plus accrued interest of $18,630 was deposited in the Society's bank account subsequent to year-end.
4. GENERAL REVENUE AND EXPENDITURE

<table>
<thead>
<tr>
<th></th>
<th>1980</th>
<th>1979</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Membership</td>
<td>$84,279</td>
<td>$78,586</td>
</tr>
<tr>
<td>Interest</td>
<td>31,306</td>
<td>9,616</td>
</tr>
<tr>
<td></td>
<td>115,585</td>
<td>88,202</td>
</tr>
<tr>
<td>Expenditures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office services</td>
<td>9,125</td>
<td>10,026</td>
</tr>
<tr>
<td>Audit and accounting</td>
<td>9,611</td>
<td>2,275</td>
</tr>
<tr>
<td>Printing and stationery supplies</td>
<td>1,703</td>
<td>2,209</td>
</tr>
<tr>
<td>Postage</td>
<td>2,094</td>
<td>1,724</td>
</tr>
<tr>
<td>Earth science</td>
<td>(4,840)</td>
<td>593</td>
</tr>
<tr>
<td>Society affiliations</td>
<td>4,195</td>
<td>1,600</td>
</tr>
<tr>
<td>Other</td>
<td>950</td>
<td>2,105</td>
</tr>
<tr>
<td></td>
<td>22,838</td>
<td>20,536</td>
</tr>
<tr>
<td>Net revenue for the year</td>
<td>$92,747</td>
<td>$67,666</td>
</tr>
</tbody>
</table>

5. PUBLICATIONS

<table>
<thead>
<tr>
<th></th>
<th>1980</th>
<th>1979</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue from publications</td>
<td>$59,020</td>
<td>$49,570</td>
</tr>
<tr>
<td>Cost of publications sold</td>
<td>31,689</td>
<td>13,996</td>
</tr>
<tr>
<td>Gross profit</td>
<td>27,331</td>
<td>35,574</td>
</tr>
<tr>
<td>Expenditures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advertising and exhibits</td>
<td>4,216</td>
<td>4,673</td>
</tr>
<tr>
<td>Commissions</td>
<td>18,742</td>
<td>16,675</td>
</tr>
<tr>
<td></td>
<td>22,958</td>
<td>21,348</td>
</tr>
<tr>
<td>Net revenue for the year</td>
<td>$ 4,373</td>
<td>$14,326</td>
</tr>
</tbody>
</table>

6. BULLETIN

<table>
<thead>
<tr>
<th></th>
<th>1980</th>
<th>1979</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue from subscriptions and advertising</td>
<td>$13,444</td>
<td>$14,376</td>
</tr>
<tr>
<td>Expenditures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printing and editorial service</td>
<td>34,481</td>
<td>39,289</td>
</tr>
<tr>
<td>Postage</td>
<td>8,212</td>
<td>12,929</td>
</tr>
<tr>
<td></td>
<td>42,693</td>
<td>52,218</td>
</tr>
<tr>
<td>Net loss for the year</td>
<td>$29,249</td>
<td>$37,842</td>
</tr>
</tbody>
</table>

7. 50TH ANNIVERSARY TRUST FUND

This trust fund was set up in 1978 to accumulate contributions for the purpose of funding student industry field trips.