CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS
1982 REPORT OF ACTIVITIES

A. N. HUTTON
PRESIDENT

HIGHLIGHTS

This has been a very difficult year for the petroleum industry, in which sweeping and financially unfavorable regulatory changes were compounded by the forces of national and international recession. For the first time in many years a large number of members have been laid off, or forced to change employment as a result of takeovers or financial failures. Fortunately, the demand for skilled and experienced personnel has remained strong so that few professionals have found themselves out of work for very long. Newly graduating students, on the other hand, have faced a very difficult situation and it seems that this could continue in 1983 with numbers of graduates greatly exceeding the industry demand.

Although this has been a year of major change and uncertainty the Society has continued to prosper. The membership has continued to grow, although at a slower rate this year, reaching a total of 3,726. This total shows an average rate of increase of 10% per year over the last six years. If this growth rate is continued membership will reach 5,000 in 1985 and will have doubled by 1990.

In order to cope with current growth of business, as well as the projection for the future, this year the Society moved into its own offices in the Herald Building, finally bringing to fruition recommendations of past executives. Also, for the first time the Society has taken under its direct employ an office manager, Sheila Dylke, who of course is no stranger, and has been invaluable in the administration of the Society for many years. The objective of these changes is to consolidate the meetings of the Executive Committee within the office so that many details of administration and particularly budgetary control and planning can be more readily expedited and controlled. This is particularly important with respect to financial commitments made which will become the responsibility of future executives. Following the budget development early in the year a complete review and forecast was undertaken in the fall to account for all major financial commitments and publications as far ahead as 1984. We trust that this will provide the basis for more orderly planning and recording of future commitments. Also that the support of the office will to some extent ease the burden of business carried by the Business Manager and Treasurer on the Executive.

The Executive made a number of recommendations regarding by-law amendments this year. The initial recommendation, that setting of annual dues should be the prerogative of the Executive Committee was rejected, although the vote was invalidated because of defective voting procedures. As a result a change was made in the timing requirements for mail ballots, which would permit the use of the Reservoir for mailing. This will result in a significant reduction in expenses for future ballots.

The editor's role in the Society has gained progressive responsibility and authority with the increasing number and complexity of the Society's activities in printing and publication. To provide greater control on editorial procedures and resulting costs the editor has been given ultimate control on all publications and technical printing for the Society and consolidated as an ex-officio member of the executive.

In retrospect, our view remains that voting on membership dues is an archaic procedure which in the long run is to the detriment of the membership. The executive has no intrinsic benefit or motive to increase the membership other than for the appropriate and efficient running of the organization in which they also pay the dues. The cumbersome referendum approach in effect denies the executive flexibility in assessing and reacting to large variations in income resulting from less predictable revenue sources such as conferences and successful publications.

The membership has approved a substantial increase in annual dues from $25 to $40 per year. This increase will largely offset the significant increase in operating costs, printing and mailing that the Society has experienced since 1978. The fee is also set on the basis that it will meet the major membership expenses incurred in operating the office and producing the Bulletin and the Reservoir.

The Executive have been acutely aware of rising costs and have carefully reviewed all means of reducing operating expenses. All activities of the Society have been examined to ensure that they are operated on a sound fiscal basis. One of the innovations has been the change in format of the 1982 Bulletin. This proves to be a significantly more cost effective method of production and the larger page size brings significant advantages in layout and reproduction of diagrams and figures. Also under review were data processing systems which might streamline editorial procedures and costs and although no action was taken currently this should again be reviewed in future.
The complete operation and production of the Reservoir was reviewed by an ad hoc committee chaired by Hans Specman. As a result of this review and with the approval of the Executive and the editors it has been decided to introduce a change in paper quality in 1983. This may reduce somewhat, the aesthetic appeal of the newsletter but will not affect the format or general utility, however, it will substantially reduce the costs of mailing which have increased by 50% this year alone. The introduction of the lighter paper type should result in a saving of about $9,000/year, or about 50% of current expenses.

Another area in which the Society’s operations have significantly improved is in the area of Publication sales. During 1981 there had been a serious decline in sales of publications with about a 40% drop in revenue over the previous year. The Society was able to renegotiate its sales contract with Stacs and has in effect recovered total control of sales. This has reduced the overhead costs of publication sales, and the more convenient downtown location has added appreciably to counter sales. This, together with significant new publications coming on stream and the enthusiastic work of our chairman, Bill Hasket, has pushed publication revenue to record levels and fully justifies the decision to handle sales through the office. Furthermore, it will permit future publications to be provided at more moderate rates than previously.

The Society has, for the past several years, supported the Student Industry Field Trip out of its general revenues. This course has been followed because we have received a special concession from Revenue Canada which permits the accumulation of income within the 50th Anniversary Fund. This is a significant concession and it behooves the Society to make every effort to build the principal amount of the fund to target level before this concession runs out and income generated by the fund must be expended from year to year. After excellent initial growth the Fund has stagnated and support from the general membership has been quite disappointing, despite numerous requests for support. We are very pleased to see that a recent request included with membership notices has received a good response. Since it is not certain that over the next five years the Society will always be able to support the field trip from general revenue, there is clearly an immediate need to raise the Fund to levels which will support SIFT and, hopefully, additional activities. Thus after two years of rather meager gains a major funding drive appears to be necessary.

Over a period of many years geologists have been deeply divided with respect to the issue of professional registration and certification and more specifically with the requirement to be registered provincially by the Association of Professional Engineers Geologists Geophysicists of Alberta. Although this debate appears to be almost as old as the Society itself, judging by the comments of our Past Presidents, to this date no constructive means of resolving these problems appeared to be available. We are very pleased therefore that the excellent report presented by Dr. Gordon Williams and his committee has provided a clear set of recommendations offering a significant approach to addressing a number of the problems and concerns felt by geologists. Furthermore, we believe that through promoting this dialogue during the year we have now opened up very much stronger lines of communication with APEGGA through which the concerns of membership can be more effectively dealt with. There remains much to be done, and this will be a continuing challenge to the new joint CSEG/CSPG/APEGGA committee. We have also begun a dialogue with other major earth science organizations with a view to ensuring reciprocity and portability of credentials for earth scientists within all Canadian Provinces.

We emphasize here that while many would wish to see CSPG administer professional registration, the political and legal realities of certification and registration make this a relatively impractical goal.

Since the Society was established continuing efforts have been made to meet the national mandate of the organization. One year ago the system of Area Representatives was restructured to provide a formal standing committee, the National Liaison Committee. This year after careful review it was decided that the University Liaison position was redundant in relation to the mandate of the committee and has therefore been terminated as a formal organizational position. The committee, chaired by Rand Harrison, is made up of members from across Canada with a mandate to increase the Society’s activities and make it better known across the country. The initial annual meeting of this committee with the Executive have been so constructive that it was decided that the committee should meet twice a year. This will provide the Executive the necessary input and national perspective so that CSPG will be better able to meet its regional responsibilities. Perhaps, for the future the NLC may provide the foundation for a nationally elected Board of CSPG to set broad policy objectives.

This year the Society received a request to provide input on federal government research proposals in the earth sciences and our response was ably coordinated by Arne Nielsen. We have been critical of governments for initiating policies and programs without consultation and it is, therefore, refreshing to have this opportunity to express our views and opinions on the proposed research efforts by Energy, Mines and Resources. We may add at this point that our unsolicited commentary in 1981 on the likely effect of the N.E.P. on the employment of geologists, which were confirmed in this year’s Manpower Report by Ken Beckie, were less favourably received.

Although the Society, for the most part, has taken a narrow technical view of its activities the events of the
last few years suggest that it should take every opportunity to provide regular input on policy matters which will affect our profession at the educational and employment levels. The Manpower Committee has been a first step in this direction but I feel that a greater effort is needed to direct these concerns to government on a regular basis. If we are not willing to present a responsible and balanced view of our professional concerns we should not be surprised when we are overlooked.

Without question the outstanding event of this year was the AAPG/SEPM Annual Meeting in Calgary for which the CSPG was the host society. This event was the result of years of planning and effort and its success is doubly gratifying because of the many difficulties which had to be overcome in accommodating the massive registration of 8,000 delegates, the fourth largest in the 67 year history of AAPG and possibly one of the largest Conventions ever held in Canada. The technical and social programs offered during the convention were outstanding and the response by convention attendees was overwhelmingly favorable, notwithstanding some of the material in the press. We, therefore, believe that the organizing committee and its chairman Jim MacDonald are to be congratulated on a very fine achievement in staging this enormous undertaking so successfully. Also, our appreciation of the fine support and assistance from AAPG headquarters staff.

In conclusion, a great deal has been accomplished this year but the executive has been fortunate in bringing to completion many items initiated by our predecessors. We hope that in turn we have planted seeds which will blossom in the future.

The Society is in a sound financial position providing a solid foundation from which it will be able to meet the challenge through its technical programs and publications of enhancing its position as one of the world’s leading geological societies. I hope we may also find the courage to address those political matters which may be of vital concern to our profession.

Finally the pleasure of making this impressive report on activities would not have been possible without the Society’s committees who, as always, demonstrate a tremendous capacity to undertake large and meaningful programs.

SUMMARY OF ACTIVITIES

The Society operated this year with approximately seventy standing committees. In addition several “ad-hoc” committees have completed their projects during the year. The key achievements of these committees are summarized below and outlined in detail in the committee reports.

In March the Sedimentology group organized a very successful conference on “Major controls on Devonian stratigraphy and sedimentation” in honor of Dr. Helen Belyea’s great contribution to the Devonian system.

As discussed, the AAPG/SEPM Annual Meeting attracted 8,000 delegates to a very successful conference, with 209 delegates from 40 countries outside of North America to provide an international flavor to this outstanding occasion.

In August the Eleventh Congress of the International Association of Sedimentologists met in Hamilton, Ontario. The conference, sponsored by CSPG and GAC, attracted 1,200 delegates. Authors from about fifty countries presented papers in thirteen general theme sessions and over forty symposia on more specialized sedimentological topics. The papers were of high caliber so that the conference was a great success. That this major international conference was so successful is a great tribute to General Chairman Gerard V. Middleton and his organizing committee.

Future Conferences are being planned as follows:

— 1983 CSPG Conference, Mesozoic of Middle North America, (May 8 - 11 Calgary, Alberta) General Chairman, Don Stott; Technical Program Chairman, Ian McIlreath.

— 1984 CSPG/CSEG Conference (June 18 - 20 Calgary, Alberta) General Chairmen, Tim Hawkins, CSPG, Michael Doyle, CSEG, Technical Program, John Hutton, CSPG, Pat Kieran, CSEG.

— 1984 The 6th International Palynological Conference (August 24 - 30 Calgary, Alberta) jointly sponsored by CSPG, University of Calgary, Canadian Association of Palynologists and Arctic Institute of North America.

— 1985-6 Discussions are under way with Petroleum Society of CIM with respect to a joint Convention.

Jim Dixon completed his first year as editor and assumed “ex-officio” status on the executive. During 1982, the Bulletin of Canadian Petroleum Geology was issued four times, part 4 of volume 20 and parts 1-3 of volume 30. The Reservoir edited by Fred de Wiel appeared 11 times during the year with its usual vital information on Society activities. Fred de Wiel completes his term as Reservoir editor this year and his position will be taken over by Rory Hankel. Special Reprint No. 3 was issued containing three significant, out of print papers on the structural geology of the southern Canadian Rockies. A pre-publication sale was arranged for Memoir 8, Arctic
Geology and Geophysics, with delivery anticipated early in 1983.

Two volumes of the Lexicon were published in 1981 and are selling successfully, five additional volumes are underway, as well as the Lexicon of Tectonic Terms. It is probable that Volumes 3 and 4 will be completed and published in 1983. The Geological Calendar for 1983 has again been well received. A new membership directory was published in the fall and represented a major undertaking since members submitted address changes at the rate of almost two hundred per month during the year.

Work is continuing on several publications. These include new cross section series of the Western Canada Sedimentary Basin; an addition to the reprint series on Saskatchewan; the first binder of the Oil and Gas Pools of Canada, and a special publication entitled The Calgary Geological Setting. The first monograph in the Palaeontography Canadana series has been presented for review and should appear in 1983.

Revenue from publication sales has shown a significant increase this year, which is attributed to renegotiation of Stacs contract and availability of publications at the downtown office location.

The lunch-time technical program continues to be the core of the Society's activity and attendance has remained high despite the recession and company cutbacks. The committee, chaired by Grant Bartlett, presented 21 luncheon talks during the year to an average attendance of 850 people at each luncheon. Approximately 17,000 tickets were sold for the luncheons with 83% of sales being to Society members.

The Continuing Education Committee, under the chairmanship of Ted Bogle, presented a short course, "The Terrigenous Depositional Systems" taught by Dr. W.L. Fisher, with an attendance of 103. The Committee was also involved in sponsorship of two additional courses during the year. The future thrust of the committee is to present courses and seminars on topics pertaining to and using examples from the Canadian sedimentary basins.

The Honorary Address was presented by Dr. Phillip Tobias, University of Witwatersrand, on Early Man in Africa to an enthralled audience of 700.

The Speakers Bureau under the chairmanship of Ernie Greenwood is responsible for the organization of the Link Award and Distinguished Lecture Tours. This year only the Link Award Tour took place with the two speakers Dr. Derald Smith and Dr. Peter Putnam presenting the Link Award winning paper to fourteen universities across Canada.

The one-day field trip program was one area of activity which was significantly affected by the industry downturn. Two trips had to be cancelled and registration was down 50% from the previous year. Successful trips were run to Lake Minnewanka, Moose Mountain, and Burnt Timber.

The National Conference of Earth Sciences was not held in 1982. After nineteen successful conferences in a row Gordon Williams relinquished the chairmanship to Peter Gretener. A Conference is now planned for September 13 - 14, 1983, on "Petroleum Source Rocks: Maturation and Migration".

The Society honors outstanding contributions to the geological community and to its affairs through a series of awards. Honorary Membership has been awarded to George Grant for his continuing contributions over many years. The 1981 Medal of Merit, distinguishing the most significant paper dealing with petroleum geology of Canada's sedimentary basins, has been awarded to the Sedimentology Research Group for the paper, "The effects of in situ steam injection on Cold Lake Oil Sands." The R.J.W. Douglas Memorial Medal this year has been awarded to an outstanding earth scientist Dr. James T. Fyles who has made significant contributions to the geology of the Canadian Cordillera.

The Link Award, for the best oral technical paper at a meeting of the Society, was won by Dr. Peter Gretener for his presentation, "Bulk reservoir surveying, a necessary step between successful exploration and optimal exploitation". Thirteen Tracks Awards were given during 1982 in recognition of outstanding committee work for the Society. Special Awards for outstanding contributions to the Society were given to Jim McDonald, General Chairman of the 67th AAPG Annual Meeting, Gordon Williams for his great contribution to the Society and particularly the National Conference on the Earth Sciences and A.E. Calverley for his many contributions to the Society including the past three years on the Executive.

The Society continued its efforts to encourage students in geology with the following awards. Undergraduate Student Awards were presented to some 25 students across Canada. The Best MSc. Thesis Award was won by William B. Styen, University of British Columbia for his thesis entitled "The sedimentology, petrography, and geochemistry of some Fraser Delta peat deposits". Due to the low number of entries the Ph.D. Award was suspended for this year. The John B. Webb Memorial Trophy was for the best paper at the Western Inter-University Conference was presented to J.K. Russell, University of Calgary while the CSPG trophy was presented at the Atlantic Universities Geological Conference to Ricky Secco, St. Francis Xavier University.

The special interest Divisions of the CSPG were augmented by a new group, increasing the number to seven — Structure, Sedimentology, Coal, Geochemistry, Palaeontology, Geomathematics and Petrology. The Divisions actively promote scientific programs through lec-
tures and discussions and of course benefit from the informal participation possible in small group meetings. As in the past the Divisions have also been actively involved in the organization of Field Trips and technical symposia.

In the area of Public Service the Student Industry Field Trip is our major commitment. The 1982 trip, ably organized by Roy Smith, marked the first occasion on which all thirty-three university geological departments were represented. The trip affords the opportunity for an impressive field program as well as a general review of the role of the petroleum geologist. The Education Committee under the direction of Chris Burnell provided a workshop for Calgary High School teachers. This was funded through the Edge program of Canadian Geoscience Council.

The Society again has provided liaison representatives to a number of groups and committees. We have been ably represented at Canadian Geoscience Council by Dave Organ and Pat Purcell. This organization continues to address the broad issues of the Earth Sciences in Canada. The Society by virtue of its affiliation with the AAPG is entitled to twelve representatives in the AAPG House of Delegates. As discussed we have obtained significant new representation to the APEGGA Council and are represented also on The Canadian Committee for the World Petroleum Congress, and on the Petroleum Resources Communication Foundation.

CONVENTIONS AND SEMINAR

1982 CSGP SEDIMENTOLOGY CONFERENCE (Ashton Embry, Chairman; Frank Stoakes, Jack Wendte).

The subject of this conference held March 18 and 19 was "Major controls on Devonian stratigraphy and sedimentation". The meeting in honour of Dr. H.R. Belyea was very well attended with an overflow group of 230 delegates. Eighteen papers were delivered with focus on the effects of such factors as tectonics, eustatic sea-level change and climate on the sedimentation and stratigraphy of the Devonian.

The Conference closed with a banquet at which the keynote speech was given by Dr. D.J. McLaren describing the early study of the Devonian and honouring the great contribution provided by Dr. Belyea.

1982 AAPG 67th ANNUAL MEETING, SEPM 56th ANNUAL MEETING CALGARY, ALBERTA, JUNE 27 - 30 (CSGP HOST SOCIETY) (General Chairman, Jim MacDonald; Vice-Chairman, Bob McCrossan; Vice-Chairman for SEPM, Phillip Brown; Technical Program Co-ordinator, Ed Klov; AAPG Technical Program, Gale Koch; Technical Program Editor, Len Hills; Entertainment, Jim Milligan, alternate, W. Galloway; Ladies Entertainment, Rhyll Mailem, alternate, Grace Long; Housing, Jerry Ball, alternate, Duncan Robertson, Matt Brister; Reception VIPS, Jack Browning; Field Trips, Des Smith; Speakers' Breakfast, Colin Klapa; Transportation, Bob Potter, alternate, Cedric Stapleton; Printing, Yvon Rivard; Publicity, E. Kulsky, alternate, Al Miller; Posters, Paul Jackson; Finance, Bob MacDonald, alternate, Wayne Foo; Information, Bruce May, alternates, George Norgard, Tobin Theatre, Keith Raskin, Kevin Morrison; Alumni Meetings, Ed Schultz; Registration, Ed Flewitt; Mattson Award, Bill Bell; Chairman EMD, Henry Wennekers; CSGP Representative, Bob Orr; Vice-Chairman DPA, Mike Hriskeyvich; DPA alternate, Stan Brown; SEPM Technical Program, F.G. (Rick) Young; SEG Representative, Margaret Welsh; Calgary Stampede President, Ken Moore, Steve Edwards; Calgary Convention Centre, Paulo Nannelli; CSGP Short Courses, Peter Putnam; CSGP President, A.N. Hutton; Financial Coordinator, Arnie Nielsen; AAPG Representatives, President Frank W. Harrison, Executive Director Fred Dix; Convention Director, Kathy Watson; Manager, Convention Department, Sondra Biggs).

The CSGP and the City of Calgary were pleased to be hosts for the annual convention of the AAPG and SEPM. A grand total registration of 8,142 was recorded; making this meeting the fourth largest in the 67 year history of the AAPG and the largest of the three annual conventions held in Canada. There were 209 delegates and spouses that came from 40 countries other than the United States and Canada.

The convention theme was "Resource Round Up" and papers were given in 8 concurrent sessions. The meeting rooms in the Round Up Centre were constructed out of many thousands of yards of carpet and drapes. A fair degree of acoustical integrity was achieved; however, we did need larger rooms with better access and egress. The attendance at technical sessions was extremely high due to the quality of the papers and of course to the rains!

The convention registration was handled extremely well from the efficient envelope stuffing by volunteers to trouble free desks handled by an effective staff hired through the Calgary Tourist and Visitors Association. Alongside the Registration area was the Exhibits Hall, a traditionally popular area to meet friends, exchange ideas, take refreshments, and browse among the exhibits. The exhibitors were very pleased with the high attendance and the ample space.

Our entertainment committees organized some outstanding social events and we have been complimented...
that this was the best ever Sunday night opening cocktail party attended by over 7,000 people. The food service was fast, efficient and tasty. The mini rodeo on Tuesday night in the Grandstand was attended by 3,000 people who were well fed and entertained. The barbecued beef, rodeo, and 3 floors of dance bands kept attendees there until the 12:30 a.m. closing. In the downtown Calgary hotels and the Convention centre many other activities were held, including spouse activities, a gourmet dinner/dance, college alumni parties, and numerous committee meetings. The hotels in general performed very well. Twelve field trips were successfully run and well attended. While the weather was generally poor we were fortunate that none of the trips had to be cancelled and participants never seriously inconvenienced.

We had severe logistics problems in the transportation sector. Airline seats into Calgary from the “oil patch” cities in the United States were insufficient to meet the demand. As delegates were housed in hotels all over the city and in Banff the shuttle bus system was strained during peak traffic periods. The shuttle bus system was well organized and efficient.

Although results for some time hung in the balance we are very pleased to report that the Convention was also a significant financial success. Aapg has forwarded a cheque for $50,000 and will remit approximately $20,000 more to CSPG once a full accounting has been completed. We are greatly indebted to the excellent corporate support we have received for the convention which has been instrumental in ensuring its success.

The CSPG is rich in talent and volunteerism. We had a fine committee organization which was able to carry out plans efficiently and expeditiously. The Tulsa professionals on the Aapg staff are extremely well organized and knowledgeable, and were a pleasure to work with.

Aapg Short Courses — (P.E. Putnam, Chairman; W.G. Cutler)

Three CSPG-sponsored short courses were run in conjunction with the 1982 Aapg convention which was held in Calgary from June 26 to July 2, 1982. “New Concepts and Methods in Stratigraphy” (F. Agterberg, F. Gradstein, J. Bower, W. Schwarzacher, J. van Hinte) was attended by 40 people. Two hundred participated in two courses on “Geophysics for Geologists” (N. Hutton, E. Wren) and 140 attended the core display on “Canada’s Giant Hydrocarbon Reservoirs” (W.G. Cutler).

1982 International Association of Sedimentologists, XI Congress (CSPG representatives on the organizing committee include: Ian McLreath, Andrew Miall, and Frank Beales; Gerard V. Middleton, General Chairman)

Canadian sedimentologists achieved new prestige and more cosmopolitan recognition because of the success of the Eleventh International Congress on Sedimentology held August 22-27, 1982 on the campus of McMaster University, Hamilton, Ontario.

Approximately 1,200 delegates attended five days of technical sessions. Authors from nearly fifty countries presented mainly oral papers in thirteen general theme sessions and over forty symposia on more specialized sedimentological topics. European and Pacific Rim countries were particularly well represented along with the anticipated American and Canadian contingents as this marked the first time that this Congress had been in North America. A surprisingly high number of papers were given by authors from various countries in Africa which gave encouragement to establishing a better north-south dialogue from a scientific point of view.

Despite the great diversity of the program Ken Hsu was able to establish a theme for the Congress with his paper entitled “Actualistic Catastrophism in Sedimentology” in his Presidential address during the opening general session. In many sessions various principles of sedimentology were critically examined and many new insights, ideas and positive dialogue resulted. Considering some linguistic problems, both the quality and content of the papers were of high caliber, so that without a doubt this conference was a technical success.

Field excursions in both eastern and western Canada, before and after the actual Congress were quite successful. A very useful product of these excursions are the suite of excellent guidebooks which may now be obtained in the CSPG office. A delightful highlight of the Congress was the midsession (Wednesday afternoon) break when a majority of the delegates participated in a trip to see the geology of the Niagara Gorge and area, followed by dinner and an evening at the Shaw Festival.

Recognizing the difficulties and work inherent in organizing a successful international conference, it is really a great tribute to the organizational skills and ability of the committee chaired by Gerard V. Middleton that this major international conference was so successful.

1983 CSPG Conference — Mesozoic of Middle North America (D. Stott, General Chairman; I. McLreath, Technical Program; J. Dolph, Finance; D. Gardiner, Publicity; A. Corveatt, Printing; B. Miller, Technical Services; M. Lerand, D. Gibson, Field Trips; E. Manko, Housing; B. Ricketts, Registration; D. Macie, Exhibits; J. Knight, Exhibits; G. Reinson, Core Conference; J. MacMillan, Abstract Editor; D. Stott, Memoir Editor; J. Minions, Convention Theatres; A. Payne, Entertainment; D. Stauff, Grants; C. Havard, Luncheon; J. Dixon, Short Courses.)
The 1983 CSPG Conference, entitled "Mesozoic of Middle North America" will be held in the Calgary Convention Centre, May 8-11, 1983. The planning is in the final stage, with the Second Circular now being circulated. The objective has been to bring together geoscientists in Canada and the United States to review the facts and principles relating to the exploration for the development of prime oil and gas and coal occurrences in the Mesozoic of Middle North America. The focus will be on the accumulation of fossil fuels, on problems and solutions in hydrocarbon development and production, and an update of the regional stratigraphic and structural framework. The proceedings will be published as a CSPG Memoir.

Poster sessions will be held in conjunction with the oral presentations. In addition to and complementing the technical program, a two-day Core Conference will be held on May 12 and 13 at the Core Facilities of the Energy Resources Conversation Board. Also, two Short Courses will be given; one on "Basin Analysis" and the other on "Diagenesis of Clastic Sediments".

Ten field trips illustrating many of the facts and concepts of Mesozoic stratigraphy, sedimentology, hydrocarbon and coal occurrences are planned. The areas to be visited include Dinosaur Provincial Park, Drumheller, southern Foothills, Crowsnest Pass, Fort McMurray, Grande Cache and Montana. A luncheon with guest speaker and an evening of entertainment at Heritage Park will round out the over-all activities.

1984 CSPG/CSEG CONVENTION — (T.J. Hawkings, Chairman CSPG; M. Doyle, Chairman CSEG; J. Hutton, P. Kieran, Program; A. Pelltiter, Finance; L. Cameron, Registration; T. Lindskog, Publicity; G. Carrington, Exhibits; L. West, Operations; B. Schultz, Entertainment)

The committee structure for the joint conference to take place from June 16 to 21, 1984, has been established. The theme is Concepts — concepts of geology and geophysics to aid oil and gas exploration. Work will commence in early 1983 to develop the basic plan for the conference. By mid-1983 we will start to assemble papers, for a strong, topical technical program which we hope will make a real contribution to exploration efforts in Canada.


The conference is jointly sponsored by The Canadian Society of Petroleum Geologists, The University of Calgary, The Canadian Association of Palynologists, and the Arctic Institute of North America. It will be held in Calgary August 24 - 30, 1984.

The first circular advertising the conference was mailed on December 1, 1981. It outlined the Organizing Committee, proposed field trips and included a questionnaire regarding suggestions for the program. A second circular was issued in November 1982 and the final circular is planned for November 1983. The preliminary response has been excellent.

The CSPG is supporting this conference through active participation of members of the Palynology Division in the organizing of the conference.

The University of Calgary Conference office is serving as Conference Co-ordinator.

PUBLICATIONS

BULLETIN OF CANADIAN PETROLEUM GEOLOGY (J. Dixon, Editor)

During 1982, number 4 of volume 29 and numbers 1 to 3 of volume 30 were published. Number 4, volume 30 will be published in early 1983. The delay in date of issue for the Bulletins continues, although some gains were made in 1982. A major factor in the continuation of this problem is the lack of suitable manuscripts being submitted.

The new format was introduced in 1982 and all major CSPG publications will use the same format. The new page size is more practical, and potentially less costly, than the previous one. Few problems were encountered in the format change over.

Fifteen associate editors help with the task of reviewing manuscripts and in 1982 twenty-four other reviewers were involved. Our thanks to these people for their time and effort and especially to the outgoing associate editors J. S. Bell, A. C. Grant, A. D. Miall, P. F. Moore and N. C. Wardlaw.

In assuming the position of editor this year I would like to especially thank Peter Sherrington, the past editor, for his encouragement and help. Likewise, Jean Greig (Production Editor) and the staff of McIara Printing, especially Mary Wilkens, are to be thanked for their help.

In 1982 the functions of the Bulletin Editor were expanded such that the position is now that of Senior Editor for the Society. As well as editing the Bulletin, the Senior Editor co-ordinates all publishing activities (see report of the Publications Committee) and sets and maintains standards of editorial practice, procedure and policy within the Society.

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

The "Reservoir", the next-to-monthly newsletter of the CSPG, appeared the customary eleven times, four times with 8 pages, four times with 12 pages, twice with
16 pages and once with a record 20 pages. The number of copies printed went up from 3900 in 1980 to 4100 in 1981.

As usual, the published material consisted primarily of abstracts, announcements, reports and comments from the Executive, Committee Chairmen and event organizers. Feedback from the grass roots was minimal, confirming that the huge majority of Active Members are passive.

The response to the plea for pictorial contributions for an exceptional twelfth issue, which was published November as a Photo Supplement, was meagre. The editors do not recommend a repetition of this effort unless a more complete selection of material is available. Committee Chairmen of major functions should include a photographer in their planning.

Much of the credit for the timely mailing of the "Reservoir" must again go to Commercial Printers Ltd. and the CSPG office staff.

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 vehicle outside of the Society by which CSPG events and activities of general national interest are printed and distributed.

A Group Subscription initiated in 1978 is offered through the CSPG. Its popularity has remained high.

Recent summary: 1980 — 278 subscriptions
1981 — 356 subscriptions
1982 — 243 subscriptions

CSPG INDEX (P. W. Hay, Chairman; C. R. Dixon, B. G. McIntyre, G. T. Stabb)

Indexing of current CSPG publications is continuing for eventual future update to the Subject-Author-NTS Area Index, last issued in January, 1978. All publications issued to the end of 1981 have been indexed and added to the Alberta Research Council's GEODIAL system for on-line searching, and through GEODIAL, to the Canada Geoscience Centre's GEOSCAN system. The index to 1981 CSPG Bulletin papers was prepared for inclusion in the December 1981 issue. Future plans are to publish a supplement to the last index, containing only CSPG papers published since 1978. The 1978 Index contained references to 1,860 papers and since then about 470 new papers have been published by CSPG and indexed by the Committee.

ARCTIC GEOLOGY AND GEOPHYSICS — MEMOIR NO. 8 (Ashton Embry, Hugh Balkwill, Editors)

This publication contains the proceedings of the Third International Symposium on Arctic Geology held in Calgary June 28th - July 1, 1981. The volume contains 27 papers covering areas from Alaska to Greenland and a review of the Arctic Hydrocarbon Resources by A. A. Meyerhoff. With the Society now handling sales it has been decided to offer this volume at an excellent pre-publication price of $28.00 (CSPG Members). The pre-publication offer will terminate Feb. 28, 1982 when this excellent volume will be available to the membership for $35.00.

LEXICON OF CANADIAN STRATIGRAPHY (Len Hills, Chairman)

Vol. 1 Arctic Archipelago (R. L. Christie, A. F. Embry, Editors). This volume went on sale early in 1981 and has sold well.

Vol. 2 District of Mackenzie and Yukon (Len Hills, E. V. Sangster, L. Sunbe; Editors). This volume was published late in 1981 and has proved very popular.

Vol. 3 Western Cordillera and southwestern Yukon (W. R. Danner, Trygve Hoy, Editors). This volume is nearing completion and will be available for printing in the fall of 1983.

Vol. 4 Western Canada (P. A. Monahan, Editor; R. McKellar, L. V. Hills, D. Turner, B. Nagy, D. Farquharson, F. Stoakes, D. Leonhardt)

During the year, the committee has nearly completed the initial editing of the entries returned to date, although some are still outstanding. In addition, a number of modified entries have been returned to the original author for their approval.

The process of rewriting and approvals will continue into the coming year. The anticipated completion date for this task is the end of 1983. Entries will be submitted to the printers as they are finalized. So that publication could follow shortly.

Vol. 5 Central Canada, principally Ontario and Quebec (Thomas Bolton, Editor). This volume is in progress.

Vol. 6 Maritime Provinces and East coast offshore (Graham Williams, Editor). This volume is in progress, publication late in 1983.

Vol. 7 Precambrian Lexicon, this is in the early planning stages. A compilation of terms has been started and an editor will be appointed early in 1983.

LEXICON OF TECTONIC TERMS (Don Cook, Len Hills, Espeth Snow).

The Lexicon of Tectonic Terms is progressing slowly. Lists of names are being compiled for the Arctic Islands and for the plains and cordillera of mainland Northwest Territories. A systematic literature survey of the mainland Northwest Territories by E. Snow has produced 414 structural and tectonic terms to date and is still in progress.

When lists of names are complete a format for presentation will be determined and volunteers will be called for to aid in write-up and compilation.
HIGHWAY MAP COMMITTEE (Gordon Williams, Chairman.)

Although there has been no activity on this committee this year the Executive have indicated that they would welcome any initiative in other provinces which would lead to production of road maps. The National Liaison Committee have agreed to look into possibilities across Canada.

MANUAL OF OPERATIONS (D. F. Scott, R. D. Orr, A. E. Calverley, I. A. McIreath)

During the past year the Manual of Operations was reviewed and necessary revisions made to make this a current document. Much of the input for this up-date was supplied by the chairmen of the various Society Committees. The new issue of the Manual is in a loose leaf binder to facilitate future additions and revisions. Copies are issued to all members of the Executive and a reference copy is also on file in the CSPG office.

MEMBERSHIP DIRECTORY (John B. Maher, Chairman)

During the two past years this committee has worked with Sheila Dylke of the Society office and M. J. Data Consultants to computerize membership lists with two main purposes in mind. Firstly, the growth of the Society and the old pre-existing mailing system required changes be made to adequately handle distribution of approximately 70,000 mailings per year. Secondly, the work was accomplished so that computerized membership directories could be published from the listings when required on any future dates.

The task of coding the membership records was greatly extended as members submitted approximately two hundred address changes per month to the Society office during the past year. All of the members’ requests for change had to be edited and many changed to assure that addresses and company names were submitted correctly and consistently.

The automatic mailing system has been in effect for some time now and seems to be working well. The first computerized director was published in September using members on record as of August 15, 1982. Due to the great number of changes in members’ addresses during the past year it was decided to use the August membership list which in fact included some one hundred members who have been delinquent in paying dues for the 1982 year. In fact the directory contains the last known address of some geologists who technically are no longer members of the Society. In the future directories can be printed and distributed in a month. Early fall is perhaps the ideal printing time as new geologists who generally enter the industry in early summer then have ample time to update their home address and place of employment. It is appreciated if members notify the office promptly regarding corrections to the membership file.

HISTORY COMMITTEE (Dave Monachello, Chairman)

An attractive, historically valid publication on the history of the Society and the role it played in the growth and the development of the Canadian oil industry is tentatively planned for 1984-85. To these ends the Society’s archives have been transferred to the Glenbow Museum from the University of Calgary Library for cataloging. With the help of Dr. Tim Travers, Department Head — History, University of Calgary, a graduate student has been partially sponsored by the Society to complete a report on the history of the CSPG.

In addition the Society has provided financial support to the Alberta Resources Historical Foundation in order to provide for recorded interviews with early members of the Society. Already twenty-two individuals have been interviewed many of whom are geologists. This material will also be available for the historical compilation.

GEOLOGICAL CALENDAR (Mike Perkins, Chairman, Peter Hews, Alisdair Fergusson, Paul Fuenning, Fred DeWiel, Bert Ellison, Bill Marhadde, Karen Drysdale)

Despite the lower than predicted sales of the 1983 Calendar the committee again decided to print 4000 calenders in anticipation of increased membership in the Society and a change in the purchase procedure for CSPG members. In addition to members being able to purchase 1983 calendars at selected luncheons and at the new CSPG offices, they now had the option of purchasing via the membership renewal form. Distribution by Stacs was discontinued.

Because of the new distribution system it was difficult to estimate early sales totals but by the end of October 1982 over 500 copies of the Calendar had already been sold. Twenty-five percent of the membership took advantage of the purchase via membership renewal form option. Sales at Luncheons were disappointing.

A two year printing contract was awarded to Lawson Graphics.

CALGARY’S GEOLOGICAL SETTING (Lionel E. Jackson, Chairman; Michael C. Wilson; Len V. Hills)

The Calgary’s Geological Setting Committee was actively preparing the publication “Geology of the Calgary Area” during 1982. A full complement of contributors to this publication was organized during this year. As of November, two-thirds of the contributors had submitted manuscripts. All illustrations and art work for these contributions have been completed. All manuscripts are due to be submitted by years end.
OIL AND GAS POOLS OF CANADA (Harry Wheeler, Chairman)

A Steering Committee of six people was established and Co-ordinators appointed for each of twelve areas. The Co-ordinators in turn solicited pool descriptions from geologists knowledgeable in the areas.

The CJMM Petroleum Society are assisting by reviewing the engineering data and the CWLS are reviewing the petrophysical data. Assistance has also been provided by the Cross Section, Metric, and Index committees. So far about 30 pool descriptions have been submitted and it is anticipated that when 50 pools have been obtained to acceptable standards, the first issue can be published in a (pre-sold) binder format.


A series of geological cross sections have been drawn, drafted and partially edited. They illustrate the lithology, correlations and relative ages of the sediments of the Western Canadian Sedimentary Basin.

The sections are currently being reviewed and spot-checked by a team of volunteers. Drafting done by Canadian Superior. This project was undertaken as a joint venture by CSPG/GAC and publication is expected by July 1983.

PALEONTOLOGICAL MONOGRAPH COMMITTEE (B. D. E. Chatterton, Chairman; R. Ludwigsen, Editor; P. Sherrington, P. Currie, L. V. Hills, J. Jansonius (representing CSPG); J. W. Kramers, P. A. Bourgne, G. S. Nowlan (representing GAC)).

The first monograph in the Palaeontologica Canadiana series, "Silicified Silurian Odontopleurid Trilobites from the Mackenzie Mountains", by B. D. E. Chatterton and D. G. Perry has been submitted. It is presently being reviewed and will appear in 1983.

M.Sc. & Ph.D. THESIS COMMITTEE (L. V. Hills, Chairman)

A list of Theses for 1981 was published in the September 1982 issue of the Bulletin. Requests have been submitted for theses titles completed in 1982. The possibility of publishing abstracts of theses on energy related topics is being considered.

MESOZOIC OF MIDDLE NORTH AMERICA (Don Stott, Editor)

Plans are being developed to incorporate many of the technical papers from the 1983 CSPG conference into a Memoir.

SPECIAL REPRINT NO. 3 (Len Hills, D. K. Norris, Peter Gordy, Peter Gretener, Felix Frey)

A special reprinting was made of three classic papers on the structural geology of the Southern Rocky Mountains. These are:

Shaw, E. W. Canadian Rockies in Time and Space Bally, A. W., Gordy P. L. and Stewart G. A., Structure, seismic Data and Organic Evolution of Southern Canadian Rocky Mountains

Dahlstrom, C. D. A. Structural Geology of the Eastern Margin of Rockies

The reprint, with a forward by D. K. Norris, went on sale in time for the AAPG Convention and has been well received. The possibility of a special reprint on Saskatchewan Geology is being evaluated and hopefully may be available next year.

OTHER SCIENTIFIC PROGRAMS

CSPG TECHNICAL PROGRAM COMMITTEE (Dr. G. A. Bartlett, Chairman; Darcie H. Gregg, Ernie Manko; Ticket Sales, Bob Letherbarrow and Carol McLennan).

The 1982 Luncheon Meetings featured a wide variety of speakers and topics. It was a very successful year; the average attendance was over 800 people per meeting.

The current economic downturn has had very little effect on the attendance, even when it was necessary to raise the ticket price to $10 in September. The majority of the meetings were held in the Westin Hotel, however, due to the lack of co-operation from their management, it was necessary to have the first three meetings of the fall season at the Convention Centre.

In 1982, the momentos given to speakers were changed from the traditional photographs to Canadian prints from the Artcard Series. These prints are quite economic and there have been numerous favourable comments from the recipients.

The Committee has most of the speakers booked for the winter of 1983 and looks forward to an equally successful year. Following, is a list of the 1982 speakers and topics.

January 6, 1982  Dr. A. W. Bally, Department of Geology, Rice University, Houston, Texas "The Geology of Seabeds and its relation to the Structural Evolution of China" Attendance 858
January 18, 1982  Mr. Paul M. Harris, Gulf Resources and Development “Late Jurassic Reefs — Exploration Targets in the Smackover Formation of the U.S. Gulf Coast” Attendance 1004

May 22, 1982  Dr. L. V. Illing, “Oil and Gas in the North Sea” Attendance 981

June 8, 1982  Mr. J. C. Goff, “Hydrocarbon Exploration in the Takutu Basin of Southern Guyana, S.A.” Attendance 862


September 21, 1982  Taras P. Storey, Suncor, “Paleogeomorphology — Basis of Seismic Stratigraphic Sequence” Attendance 816

October 12, 1982  Fredrich J. Rich, AAPG Distinguished Lecturer, Assistant Professor, South Dakota School of Mines and Technology, “Modern Wetlands and Their Potential as Coal-Forming Environments” Attendance 783

February 12, 1982  Dr. Michael A. Arthur, “Cretaceous Oceanic Anoxic Events and Potential Hydrocarbon Source Beds in Marine Strata of the U.S. Western Interior” Attendance 667


March 24, 1982  Mr. Sung Ho Youn, “Sedimentology of Falher Conglomerates (Lower Cretaceous) in the Elmworth Field, Alberta” Attendance 911

March 23, 1982  Dr. James Lee Wilson, “Patterns of Carbonate Infestations Controlled by Tectonism” Attendance 698

April 7, 1982  Dr. William E. Galloway, “Frio Formation of the Texas Gulf Coastal Plain — Depositional Systems, Structural Framework, and Hydrocarbon Distribution” Attendance 855


October 26, 1982  P. E. Gretener, University of Calgary, “Bulk Reservoir Surveying — A Necessary Step Between Successful Exploration and Optimal Exploitation” Attendance 885

November 8, 1982  Dr. Wayne A. Pryor, Consulting Geologist, Cincinnati, Ohio, “Geological Evaluation of Fractured Reservoirs” Attendance 906


December 1, 1982  Marsha E. Wright, Shell Canada Resources Ltd., “Cardium Formation (U. Cretaceous) at Seebe, Alberta — Shallow Marine Storm Deposits” Attendance 919

The CSPG scheduled 21 luncheons during 1982. This included a joint CSPG-CSEG meeting held on September 20. The first 19 luncheons had a total attendance of 16000, or an average of 840 people per luncheon.

Although this average is down from 910 of the previous year, the attendance is very good considering the present economic conditions. Members of the CSPG accounted for 83% of ticket sales.

Ticket distribution was modified in January to allow members working for companies not on the regular distribution list easier access to luncheon tickets. Two hundred tickets were distributed through the CSPG office on a first come - first served basis. This program has been extremely successful and will be continued.

CONTINUING EDUCATION (Edward Bogle, Chairman; Keith Knox, Past Chairman; Wayne Foo, Clint Tippett)

With the AAPG convention in town this year the committee limited itself to one course, held in October. The Terrigenous Depositional Systems short course taught by
Dr. W. L. Fisher had an attendance of 103 and the material was well received.

Two further courses are planned for early 1983, a Petroleum Economics and Risk Analysis course in February and a seminar on the Devonian of Alberta in April.

In addition, the committee has supported the presentation of a series of seminars on the Alberta Petroleum Incentives program and a three-day course by the CSPG - University of Calgary Visiting Professor, Dr. Hans U. Bielenstein on Coal Project Evaluation.

A concerted effort is now being made by the committee to seek out individuals who will present courses, field trips and seminars on topics pertaining to and using examples from Western Canada and the Canadian Frontiers.

HONORARY ADDRESS

This is a public service program in which an internationally known scientist presents a lecture on a topic which is of widespread general interest on an earth science theme.

1982 HONORARY ADDRESS (L. V. Hills, Chairman)

The Honorary Address was given by Dr. Phillip Tobias on Early Man in Africa. It was held on October 7th at the Jubilee Auditorium. This talk was excellently delivered and illustrated and enthusiastically received by an audience of 700.

1983 HONORARY ADDRESS (John Knight, Chairman)

The 1983 address is still in the planning stage, however, a distinguished scientist has been approached who, if we are successful, will certainly provide an outstanding address of wide appeal.

STRATIGRAPHIC NOMENCLATURE (E. H. Schultz, Chairman; Roland de Caen, Don Kent, Tim Marchant, Alan McGugan, Ed Niewinski, Ulrich Wissner, Ross McWhae, Ed Wright)

It has been a quiet year for the Stratigraphic Committee. No reviews were required.

The Chairman stills remains active in the North American Commission on Stratigraphic Nomenclature. As a Commissioner on NACSN (and a representative for the CSPG), he attended their annual meeting in New Orleans, Louisiana.

The Stratigraphic Code is now in its final revision and preparation stage. It will be published in the AAPG in the spring of 1983.

Unconformity-bounded units are the current issue of both NACSN and ISSC. Any comments regarding this unit may be sent to your chairman for forwarding to the appropriate individuals at NACSN and ISSC.

Amos Salvador (ISSC) is in the process of preparing a Glossary of Stratigraphic Terms. He presently has 305. Should the members have any pet terms it may be advisable for them to submit them to him for study and perhaps inclusion in his Glossary.

ISSC's revision of the Guide has been set back to 1985 or 1987.

The new officers of NACSN are Bob Jordan, University of Delaware and Don Owen, Cities Services.

SPEAKERS BUREAU (E. Greenwood, Chairman; M. Chambers, R. E. Deere)

The Speakers Bureau co-ordinates the Distinguished Lecture Tours and the Link Award Tours. The Link Tours visited fourteen universities this year.

Distinguished Lecture Tour:

The committee was unsuccessful in finding a speaker who was available to go on tour during 1982. Efforts are under way to obtain a lecturer for a 1983 tour.

Link Awards Tours:

Dr. Derald Smith and Dr. Peter Putnam won the Link Award with the presentation entitled "Anastomosed River Deposits: Modern and Ancient examples in Western Canada". They conducted separate tours to cover more universities.

Dr. Putnam's tour was sponsored by Husky Oil, and lectures were given at Memorial University, Dalhousie, Acadia, McGill, Concordia, Laval, Saskatchewan and British Columbia. Dr. Putnam gave an additional lecture at some universities.

Dr. Smith's tour, sponsored by the CSPG, covered the universities of Toronto, York, McMaster, Western Ontario, Queen's and Ottawa. Dr. Smith also lectured to three geography departments.

The previous years Link Award Winner, Dr. John Hopkins, went on tour during March of 1982 to Memorial, Laval, Carleton, Laurentian, and Brandon universities. He gave an introductory course in log analysis during the evenings and his Link Award Lecture, "Sedimentology of quartzose sandstones of Lower Mannville and associated units, Medicine River Area, Central Alberta" during the day.

FIELD TRIPS COMMITTEE (Ted Watchuk, Chairman; Al Fischer, Mike Downey, Cathy Black, Marsha Wright, Glen McMaster)

The CSPG Field Trip Committee suffered this year from the present industry downturn. Of the five field trips planned, two were cancelled. The 1982 field trips were:
This year was not a good year for the Field Trip Committee. Registrations were down 50% from last year and two trips had to be cancelled due to a shortage of registrants. None of the trips run were filled to capacity and for the first time in five years there were no waiting lists on any of the field trips.

There are many possible explanations for the decrease in interest for the field trips. The major one would obviously be the present financial condition of the oil industry and the resultant cutbacks on courses for geologists. Also, as a result of fewer new geologists hired this year, fewer geologists were registered for the field trips. New geologists have represented a significant percentage of registrants for the field trips in the past. Another factor may have been the many field trips offered during the AAPG Convention, which many Calgary geologists attended.

With the exception of the Glacial Field Trip all trips were planned with the object of providing a direct benefit to the petroleum geologist. The added geological knowledge gained from these trips can be applied to work in finding oil and gas and thus increasing the value of the participating geologist to his employer.

Hopefully this year has been anomalous, and registrations will increase again next year. An added problem for next year may be the added cost of reproducing guidebooks. Until now committee members have been able to have the guidebooks reproduced but with the new austerity policies that have been instituted this may no longer be possible and the guidebooks may have to be reproduced commercially.

One possible way to increase registration during these hard economic times would be to cut the frills from the field trips. This would include cutting out lunch, supper, beer and wine. This would result in a cost of about $25 per person, which may be acceptable to people who have to pay for the trip themselves. The dinner is considered an important social aspect of the field trips and we will endeavor to maintain some less expensive form of it.

The total gross income was $6,765.00 and expenses were $6,491.80 leaving a residual bank balance of $273.20 (unaudited as of this date). The printing of the guidebooks was done by Gulf Canada, Shell Resources and Cities Service free of charge. Many thanks to these companies for their generous donation of time and money.

The committee would like to express their appreciation to the field trip leaders for their contributions of time and knowledge. These people are the key to the success of the field trips and without them these trips would not be possible.

We would like to thank all the members of the committee for their generous co-operation and hard work. Marsha Wright will be the new committee chairman in 1983.

NATIONAL CONFERENCE IN EARTH SCIENCE
(Peter Gretener, Chairman: Mike Cecile, Jack Century, Dale Dolphin, Pete Gordy, Rand Harrison, Keith Knox, Charlie Lockwood, Margot McMechan, Jack McMillan, Frank Stoakes, Fred Trollope)

Late in 1981 Dr. Gordy Williams relinquished the chairmanship of this committee. 19 conferences were held under his chairmanship (1963-81) and to him and Dr. Charlie Lockwood must go the credit of having built a type of conference which both in format and content must be called exemplary.

The committee met early in 1982 and decided:

(a) to hold the next conference in 1983 because of time considerations
(b) to shift the date from early May into the fall which was considered a more suitable time by the majority
(c) to shorten the conference slightly in order that local participants might not be away from work for a full week
(d) to conduct the conference in the spirit of a Penrose or research conference and not as a continuing education school

A number of topics were considered and finally "Petroleum Source Rocks: Maturation and Migration" won out. This topic was dealt with in 1973, with Tissot, Welte, and Berry as principal speakers. We felt that it has been, and still is, an important and dynamic field. Much has happened in the past 10 years and the petroleum industry has become keenly aware of the importance of this subject in the exploration game.

We are currently assembling a slate of principal speakers and we feel that the conference of September 13-16, 1983, will continue in the exciting and fruitful atmosphere of previous sessions.
AWARDS

HONORARY MEMBERSHIP (Tom Oliver, Chairman; Jim Law, John Downing, Mike Hrishkevich)

The Executive Committee may from time to time elect and admit as an Honorary Member any person who has contributed distinguished service to be cause of petroleum geology or the Society. Advice is supplied by the Honorary Membership Committee.

The Honorary Membership Committee considered several nominees and recommended to the Executive Committee that Honorary Membership be awarded to George D. Grant at the annual meeting in February.

MEDAL OF MERIT (Frank Stoakes, Chairman; Deborah Spratt, Margot McMechan, Fred Krause, Mike Morrison, Clark Hanna)

The Medal of Merit was initiated in 1951 and is one of the two highest awards given by the CSPG. The medal is offered to the author(s) of the most significant paper dealing with the petroleum geology of Canada’s sedimentary basins. More than 50 journals and special publications were searched for eligible papers to obtain a short list of seven scientific papers.

The winning paper was:

"The effects of in situ steam injection on Cold Lake Oil Sands"
Sedimentology Research Group 1981
(lan Hutchencn, Alan Oldershaw, and Cynthia Nahmybida)

The winning paper represents an original research approach to quantifying and predicting artificial diagenesis resulting from steam injection. We believe that the thermodynamic approach, embodied in this paper, has further application to assist in solving other problems related to clay-mineral equilibria. In view of our dwindling conventional hydrocarbon reserves, production from power-quality and unconventional reservoirs, as well as enhanced recovery schemes, will undoubtedly become the major “exploration” thrust. In light of this, we believe that the Society should recognize studies that attempt, by geologic means, to enhance production or minimize formation damage.

We would also like to commend two other papers:

"Foreland Basins"
C. Beaumont, 1981

This paper theoretically models the evolution of foreland and retroarc foreland basin development, and uses as an example the Western Canadian Sedimentary Basin. This mathematical model is substantiated by reference to a wealth of stratigraphic data and represents one of the most complete syntheses of mountain building and its effects on sedimentation in the accompanying foreland basin. Whereas its specific petroleum significance may not be immediately recognizable, it provides a framework within which to undertake more detailed exploration.

"Flysch-Type Agglutinated Foraminifera and the Maestrichtian to Paleogene History of the Labrador and North Seas"
F. M. Gradstein and W. A. Berggren, 1981
Marine Micropaleontology, v. 6, p. 211-268.

This paper details the environment and stratigraphic utility of agglutinated foraminifera in fine-grained Cretaceous and Tertiary sediments. As well as adding significantly to our understanding of the taxonomy and classification of East Coast forms, the diagnostic faunas outlined allow the stratigraphic correlation of otherwise sparsely fossiliferous Maestrichtian to Paleogene sediments.

R. J. W. DOUGLAS MEDAL (Rein DeWit, Chairman, J. O. Wheeler, R. W. Macqueen)

The R. J. W. Douglas Medal is one of the CSPG’s two premier awards. It 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’ example in contributing to the development of Canada through their geological achievements.

The committee considered six nominations which had been received from the membership. It was recommended that the R. J. W. Douglas Medal for 1983 be awarded to Dr. James T. Fyles, former Deputy Minister in the British Columbia Ministry of Energy, Mines and Petroleum Resources.

Dr. Fyles made outstanding contributions to the geology of the Canadian Cordillera. His brilliant original concepts on the stratigraphy and structure of the region were developed in the course of many years of arduous and meticulous field work. The results of these studies provided a solid foundation to a new generation of Canadian Geologists who are now leaders in the interpretation of westernmost North America.

LINK AWARD (D. G. Smith, P. E. Putnam, co-chairmen; G. Burrows, S. Greer, C. Klappa, J. Knight, F. Krause, ...
J. Macrae, M. Oliver, F. Pember, A. Rupp, B. Scott, A. Tankard, N. Watts, P. Windsor

The objective of the Link Award is to encourage better oral technical papers at meetings of the Society by rewarding the best presented paper. Only CSPG members are eligible for this award and only papers presented in Calgary at luncheons or special meetings will be considered.

This year there were eight presentations made which qualified for the 1982 Link Award. Each talk was evaluated by several committee members using the evaluation form revised by the 1980 committee. Under the rules, technical content as well as the quality of the presentation is judged.

P. E. Gretener, University of Calgary, was selected as the 1982 Link Award winner, for his presentation, "Bulk Reservoir Surveying—A Necessary Step Between Successful Exploration and Optimal Exploitation".

Honorable mention was given to two papers considered of equal merit;

Rand Harrison, Alberta Geological Survey, for his talk "Holocene and Late Pleistocene Deposits of the Southern Florida Carbonate Province" and B. Rottenfusser, Alberta Research Council, Geological Survey, for his presentation of "Sedimentology and Diagenesis of the Gething Formation, Peace River Oil Sands, Northwestern Alberta".

TRACK AWARDS (A. E. Calverley, Chairman; Mike Cecile)

This award is given to CSPG members or friends of the Society who have made an outstanding contribution to its success through committee work—in short "they made tracks" that other members can follow.

Gene Van Dyck ......................... Volume I, Lexicon
Len Hills .......... Volume II, Lexicon; Printing Committee
E. V. Sangster ......................... Volume II, Lexicon
L. B. Suney ......................... Volume II, Lexicon
Charlie Lockwood .............. Earth Science Conference
Don Magnusson .......... CSPG Stratigraphic Nomenclature Committee, American Commission on Stratigraphic Nomenclature
Ed Schultz ............... CSPG Stratigraphic Nomenclature Committee, North American Commission on Stratigraphic Nomenclature
Bob McCrossan ............... CSPG/AAPG Convention
Ed Klovan ............... Technical Program Co-ordinator
Gale Koch ............... Technical Program Chairman
Bob McDonald ............... Finance Chairman
Arnie Neilson ............... CSPG/AAPG Convention: CSPG Funds Press
Bob Potter .................... Transportation Chairman
CSPG/AAPG Convention

UNDERGRADUATE STUDENT AWARD COMMITTEE (B. A. Criddal, Chairman)

This is an annual award presented to the undergraduate student in each Canadian university geology department who has, in the opinion of his/her professor, demonstrated a superior knowledge of petroleum geology or of a related field. The award is intended to encourage those students across Canada who excel in "soft rock" geology, and consists of a framed, engraved parchment certificate and a one-year student membership in the Society.

The 1982 awards were as follows:

Acadia: Judith Pilgrim
Alberta:
Brandon: Douglas Vanbeselaere
Brock:
Calgary:
Carleton: Stephen Cook
Concordia: Donald Watanabe
Dalhousie:
Guelph: Ralph Knueger
Manitoba: Robert McAuley
McGill:
McMaster: Carlos Salas
Memorial: Randy Hiscock
Montreal:
Mount Allison: Michael Doggett
New Brunswick (Fredericton): Richard Valenta
New Brunswick (St. John): David Chan
Ottawa: Peter Harmathy
Queen's:
Regina:
Saskatchewan: Eric Jensen
St. Francis Xavier: Richard Secco
St. Mary's:
Toronto: Geoff Orton
Waterloo: Karen Berry
Western Ontario: Susanne Ridley
Windsor: Michael Gerasimoff
Quebec: Daniel Doucet

In honor of the late Stanley Slipper (1980-1982), who was the first president of the Society, the Undergraduate Student Award will henceforth be called the Dr. Stanley E. Slipper Award. As Aubrey Kerr has recounted, "Stan Slipper was not only a charter member, he was responsible, along with Glen Ruby, for the idea of our Society. Harry (then a junior geologist with the Gas Company and now also a Past-President and Honorary Member of our Society) recalls travelling to a Marland (Hudson's Bay Co.) wellsite in the back seat of a Studebaker touring car in 1927. In front seat were Glen and Stan discussing and planning the proposed organization. Both Glen and Stan were
American Association of Petroleum Geologists members (Stan joined in 1923) and they had the foresight to realize the need for our Society. When our Society was formed in 1928, it was only natural that Stan should be its first President”.

GRADUATE STUDENT THESIS AWARDS COMMITTEE (Murray Coppold, Chairman; Paul Opalinski, Brian Ricketts, Paul Gunther, Les Eliuk, Ted Sawford, Wayne Brideaux, Tony Hamblin, Bob Gregg)

This committee annually judges submitted M.Sc. and Ph.D. theses for the most significant contributions to Canadian sedimentology in each degree category.

For 1982, three Ph.D. and twelve M.Sc. theses were submitted. Due to the low number of Ph.D. entries, the award for this category was suspended, with authors being urged to resubmit their theses in 1983 when the field will hopefully be more representative.

Winner of the Masters Thesis Award for 1982 was William B. Styan, University of British Columbia, for his thesis entitled “The Sedimentology, Petrography, and Geochemistry of Some Fraser Delta Peat Deposits”. Honourable mention went to D. R. Taylor, McMaster University, for his thesis entitled “Sedimentology of the Moosebar Tongue and Bounding Strata, Lower Cretaceous Blaiermore Group, South-Central Foothills, Alberta”.

Subject breakdown of the M.Sc. theses was as follows: 5 clastics, 1 carbonates, 3 biostratigraphy, 2 inorganic geochemistry and 1 inorganic geochemistry.

While the submitted theses were drawn from all over Canada, many individual university departments answered the call for theses by saying that none eligible had been submitted in the award year. We may be seeing the effect of dwindling graduate enrollment over the last few years. With the current increasing numbers of postgraduate students the trend should be reversed quickly, and additional committee members would be welcome to share in this extremely rewarding activity.

CSPG BEST STUDENT PAPERS AWARDS (K. Bottrel, Chairman)

The CSPG presents a trophy and a $50.00 CSPG publications stipend to the best student paper presented at the Western Inter-University conference (John B. Webb Memorial Trophy) and the Atlantic Universities Geological conference (CSPG Trophy). These trophies are given to encourage excellence in oral presentation in geological topics and to expand an awareness of our Society in the university community.

JOHN B. WEBB MEMORIAL TROPHY (Western Inter-University Conference)

This trophy was presented at the Western Inter-University Geological Conference in March 1982 to J. K. Russell, University of Calgary for his paper “Petrology of the Diamond Craters, Volcanic Complex, S.E. Oregon.”

CSPG TROPHY (Atlantic Universities Geological Conference)

The 1982 Atlantic Universities Geological Conference was held at Mount Allison University, Sackville, New Brunswick on 21-23 October, 1982. The standards of the papers were high with excellent scientific content, illustration and presentation. The CSPG award was made to Ricky Secco of St. Francis Xavier University for his paper “The Wrench Oil field” and the trophy presented by Dr. Graham William a member of the National Liaison Committee of the Society.

SPECIAL AWARDS (A. N. Hutton)

The Executive from time to time makes a Special Award for outstanding contributions to the activities of the Society. This year three members were designated recipients of this award. They are: Jim MacDonald, General Chairman of the AAPG 67th Annual Meeting; a formidable responsibility which was handled most effectively; Gordon Williams, for long standing service to the Society as a Director and chairman of a number of committees most notably his long service as Chairman of the outstanding National Earth Sciences Conferences and most recently the APEGGA Professionalism Committee; and A. E. Calverley for his many contributions to the Society including three years on the Executive going from the onerous capacities of Business Manager to President. All deserve the highest commendation for their efforts.

BUSINESS COMMITTEES

MEMBERSHIP COMMITTEE (Beverley Cridland, Chairman)

The membership of the CSPG for the past years is as follows:

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During 1982 there continued to be a healthy increase in the number of new CSGP members, totalling 256 for the year. The most dramatic increase was in the associate membership category. There has also been a marked increase in the number of new student members from across Canada, and they are being encouraged to join the CSGP by maintaining an up-to-date advertising brochure in each geology department. Corporate membership was the only category to decline in numbers during 1982.

The annual membership survey and drive, conducted by the ticket sellers, was again run this year with encouraging results. Of those persons receiving CSGP luncheon tickets, 83% were members (up from 75% last year). Of those non-members receiving luncheon tickets, several applied at the time of the survey. The decrease in non-member attendance is due primarily to companies reserving the tickets for CSGP members only.

Plans for next year include another membership survey drive, as well as a corporate drive. A similar drive was conducted successfully in 1980 and judging from the decrease in corporate membership, it is time for a follow up. A good deal of the credit for another successful year in terms of new members must go to those current members who encourage their co-workers to join the society and their help is very much appreciated.

**NOMINATING COMMITTEE (A. E. Calverley, Chairman; Ken Roy, Lee Slind)**

The nominating committee's slate of candidates presented for November election of Society officers 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. The mail ballot provided 1,150 legal ballots. 12 ballots were rejected because of failure to sign the cover envelope and inclusion of more than one ballot in the return envelope. The ballot represented approximately 35% of eligible membership, down somewhat from last year.

**BY-LAWS COMMITTEE (Paul Gagnon, Chairman)**

Three changes were proposed and adopted during 1982. These were:

1. The editor of the Bulletin was appointed as an ex-officio member of the Executive. Carried 93.1% in favour.
2. Notice of a resolution for a vote of the membership, other than for election of officers, was increased from between 20 and 60 days after official notice rather than the previous 20 and 40 days. Carried 97.5% in favour.
3. Dues for Active and Associate members were raised from $25 to $40 annually. Carried 77.3% in favour.

No further changes to the By-laws are anticipated at this time. The Committee expended about $1,400 in 1982 that was not budgeted. This was mainly mailing costs for the above mentioned ballot. By-law amendment number 2 (above) will allow the Society to economize by using the Reservoir for future ballot mailings.

**PRINTING (L. V. Hills, Chairman)**


**BULLETIN ADVERTISING COMMITTEE (Phil Hayes, Chairman)**

A reversal in the number of commercial advertisers and professional cards occurred during the solicitation for 1982 advertising. Commercial advertisers dropped from 20 to 15. Professional cards were down from 22 to 19. This drop in support is attributed to economic conditions and a move by companies to reduce expenditures.

The loss of revenue from cancellations and advertising reductions was offset by an increase in the advertising rate approved by the 1981 Executive. Advertising revenues are expected to be approximately $8,360.00

**PUBLICATION SALES COMMITTEE (William Haskett, Chairman; John Hogg, Angus Ferguson, Walter Sparling, Gordon Steeves, N. J. McMillan)**

The past year has been very busy for the Publication Sales Committee. New publications, sales format changes, more extensive advertising, and convention appearances have all contributed to what must be a record year for income from publication sales.

In the early summer the C.S.P.G. took over the exclusive rights for publication sales from Stacs and formally opened our office in the old Herald building on Seventh
Avenue. This meant that the nearly forty percent commission and handling charge for each article sold would be kept by the C.S.P.G. The more convenient downtown location added appreciably to the counter sales figure.

The major conventions were attended by the committee staff. The A.A.P.G. convention gave us the opportunity to display and sell our publications and maps to our U.S. counterparts, whereas the I.A.S. Congress in Hamilton, Ontario gave us international exposure. Both events were successful, bringing in sales of approximately $10,000 and $3,200 respectively. Convention attendance is therefore deemed extremely worthwhile and continuation of this sales method is highly recommended.

The C.S.P.G. is charged for storage space taken up by our materials. In an effort to reduce this charge the committee has instituted “Dust Sales” where slower moving and slightly damaged publications and maps are sold at greatly reduced prices at noon time luncheons. For out-of-town members special prices are advertised in the Reservoir.

In an effort to be of better service to those members outside the Calgary area the committee arranged to be the North American outlet for field guides for the 11th International Congress on Sedimentology (Hamilton, August 1982). We now have a very good selection of field guides covering field trips through Canada.

DISCIPLINE COMMITTEE (A. E. Calverley)

The purpose of this committee is to consider matters relating to the ethical behavior of members or officers of the Society and to recommend to the Executive disciplinary action. No matters were brought forward for review by this committee during 1982.

ANNUAL MEETING (M. J. Leith, Chairman; E. W. Bogle)

The Annual Meeting of the Society was held in February 18, 1982 at the Calgary Inn. Dinner was followed by the Treasurer’s report and then the President’s report in which Fred Calverley reviewed the activities and achievements of the Society during 1981. Following presentation of the various Society awards, the new president, Neil Hutton, gave a short address. The guest speaker for the evening was Dick Caldwell whose talk was entitled “Dream Your Dream”.

MANPOWER COMMITTEE (Ken Beckie, Chairman; Terry Carter, Dan Edwards, Kathy Fiess, Ian Hunter, Bill May, Brian McBroome, Ed Navickas, Mark Oliver, Barry Robbins)

The purpose of this Committee is to conduct annual surveys designed to analyze trends in supply and demand for petroleum geologists (nearly all of whom belong to this Society) and to determine reasons for significant changes. This information is intended to assist universities, companies and governments in planning future manpower needs and to help to obtain a better match between supply and demand.

A summary of the 1982 Survey results was published in the July 1982 CSPG Reservoir, the June 21 1982 Oilweek, and the August 1982 APEGGA newspaper APEGG. Also, copies of the full report were sent to the Geology Departments of 13 Canadian Universities, the Canadian Geoscience Council and various government departments and individuals.

The Committee will commence the 1983 survey as of January 1, 1983.

GRANTS COMMITTEE (Ross Lennox, Chairman).

The activities of the Grants Committee have concentrated upon acquiring grants for publications of the CSPG. As the economic climate has changed so has the grant giving of many agencies, particularly within the federal government. At a meeting of the CSPG executive, there were suggestions that the committee expand its mandate in 1983 to include grants related to conventions and other projects within the society. This expanded role and other avenues for grants is being investigated for the upcoming year.

NATIONAL LIAISON COMMITTEE (Dr. Rand Harrison, Chairman, Edmonton; Dr. Chris Yorath, Vancouver Island; Dr. Bob Thompson, Vancouver; Dr. Norm Wardlaw, Calgary; Dr. Laurence Viggrass, Regina; Dr. Bill Last, Manitoba; Mr. Bruce Young, Ottawa; Dr. Andrew Miall, Toronto; Dr. Eric Mountjoy, Montreal; Dr. Pierre-Andre Bourque, Quebec; Dr. Graham Williams, Dartmouth; Dr. Rick Hiscott, St. John’s)

The first formal meeting of this committee, held late in 1981 in Calgary, concentrated on developing a set of objectives and identifying broad, general issues that the CSPG might address in its endeavors to contribute to the Canadian geoscience community on a more nationwide basis. The second meeting of the Committee was held in Calgary in late October, 1982 and addressed more specific topics, resulting in several recommendations being placed before the CSPG executive. On both occasions, the CSPG President and Vice-President attended the main Committee meeting, and the remainder of the CSPG Executive joined into summary discussions late in the afternoon. Topics addressed at the 1982 meeting included the need for better communication outside of Calgary, and with other societies, possible expansion of the national lecture tour program, further development of short course opportunities and travelling core displays, various publications (highway maps, lexicon, guidebooks, sedimentary basins atlas, the Bulletin, etc.), and the most realistic ways for
the CSGP to contribute to the geoscience community in different parts of the country.

The 1982 meeting was most successful and precipitated the decision to meet twice a year: one of these meetings will always be in Calgary, to facilitate direct dialogue with the CSGP executive, but the other will move annually to different parts of the country.

In other activities the CSGP organized a session on energy for the Geological Association of Canada Cordilleran Section symposium: Geology and Mineral Deposits of the Canadian Cordillera from Carboniferous through Lower Cretaceous (Feb. 18-19). Ed Schiller (PetroCan) discussed "Coal Deposits of Northeastern British Columbia; Dave Sheidden (Ocelot Industries Ltd.) discussed "Natural Gas in British Columbia"; and Roy Bentenau (Intercomp Resources Ltd.) and Roger Deweck (Frencana Oil and Gas Ltd.) presented "A Petroleum Geologists Overview of the Hydrocarbon Potential of the Nechako Basin, Central British Columbia". Their talks were excellent and the audience appreciated the change of emphasis. Other cooperative ventures with the Cordilleran Section of the G.A.C. are anticipated for 1983.

APEGGA/PROFESSIONALISM COMMITTEE (G. D. Williams, Chairman; T. Boleantu, D. V. Currie, D. W. Hagen, A. V. Jacobs, I. R. Mayers, K. W. Sevigny, D. J. Wingham)

This committee was instituted following a joint meeting of CSEG and CSPG on the subject of professionalism and registration through APEGGA on October 7th, 1980.

The Committee's terms of reference were as follows:

1. To investigate whether legal registration is desirable, desired or necessary for all or part of the geological profession.

2. If registration is required, to investigate and recommend ways of accomplishing it so as to maximize protection of the public and the profession, bearing in mind the legal, practical, administrative and economic implications involved. Specific alternatives include (but are not necessarily restricted to):
   a) registration more-or-less as at present, by APEGGA under the Engineering, Geological and Geophysical Professions Act.
   b) registration through a separate autonomous or semi-autonomous division of APEGGA.
   c) registration by CSPG (or a division of CSPG) under a new Earth Science or Geological Professions Act.
   d) registration by a new, independent association under a new act of the Legislature.

The preliminary report of the committee was presented to and accepted by the Executive on March 24, 1982. It was also reviewed and accepted by CSEG on April 21, 1982 and the final report, in full, published in the July/August 1982 issue of the "Reservoir".

The report was also presented at a joint CSEG/CSGP luncheon meeting at which input was sought from membership. Although a number of significant concerns were raised the recommendations of the report, which are detailed below, were accepted.

Recommendations

1. That the findings, conclusions and recommendations of this committee be given the widest possible circulation amongst CSPG and CSEG members, for example at meetings and through the "Reservoir" and the "Recorder".

2. That geologists and geophysicists accept the fact that the practice of geology and geophysics will continue to be regulated by the Engineering, Geological and Geophysical Professions Act (1981) and that major changes are highly unlikely to be made by the Provincial Government, at least over the short term (eg. 3 years).

3. That the CSPG and CSEG jointly establish a standing committee under the chairmanship of an Executive Member of one of the Societies (to alternate each year) to work closely with the Council and board of Examiners of APEGGA on a continuing basis. The prime functions of this committee would be:
   a) to ensure that the legitimate concerns of practicing geologists and geophysicists (registered or not) regarding accreditation, registration, discipline and enforcement are understood and acted upon by APEGGA.
   b) to press for changes in the structure, services and/or functions of APEGGA, its boards, committees and salaried staff which would be beneficial to geologists and geophysicists, including the establishment of a separate division within APEGGA if deemed appropriate.
   c) to encourage APEGGA to enforce actively the existing legislation to a greater degree than has previously been the case on the premise that laws which are not enforced, and observed mostly in the breach, tend to discredit the entire system. Enforcement should begin with consultants, supervisory employees and others who solicit financing or grants, or who otherwise deal with the public or make public statements. Examples must be made of those who flout the law.
   d) to encourage provincial and federal government agencies as well as securities commissions which receive geological and geophysical submissions, opinions, reports and evaluations to insist that such documents be signed and certified by appropriately-registered professionals, especially where these documents relate to incentive grants and the expenditure of public funds.
   e) to establish effective lines of communication with the geological and geophysical communi-
ties so as to assist geologists and geophysicists to become better informed about the relative roles, functions and values of technical societies and professional licensing associations, and to encourage the concept of a professional association.

4. That the relationship between geologists and geophysicists and engineers in APEGGA be reevaluated by the standing committee after a period of three years has elapsed to determine whether efforts to work within the existing Act have been successful, with the objective of recommending one of the following course of action:
   a) continue the relationship with APEGGA under a common Act of the Legislature
   b) lobby the provincial government to establish an Earth Sciences Act for the professions of geology and geophysics to be administered by an independent earth sciences association.

Subsequently in discussions with APEGGA both CSEG and CSPG were invited to have an Executive Committee member as an observer on Council. It was agreed that this function, so far as possible, would be undertaken by the Vice-President. From discussions with APEGGA Council it was agreed that the standing Committee recommended in the report would be a joint standing committee of CSPG/CSEG/APEGGA. The CSPG appointees currently are D. J. Whigham, J. E. Fred De Wiel and Stan Brown. We anticipate that with completion of nominations from all groups the committee will meet and vigorously pursue its recommended mandate in the next three years. With APEGGA’s intention of increasing enforcement as well as new requirements for registration there are already a number of issues which deserve attention. However, it should certainly be acknowledged that APEGGA have made every effort to meet and deal with issues that have arisen to date.

NEWSLETTER REVIEW COMMITTEE (Hans Speelman, Chairman; Rory Hankel, Fred De Wiel)

This was an ad hoc committee set up at the request of the Executive to review means of reducing the expense of publishing the “Reservoir” which amounts to about 25% of the net operating expenditures of the Society. Three major areas were investigated, 1) mailing costs, 2) advertising, 3) printing costs.

This analysis showed that mailing costs are the principal cause of the escalated cost of the “Reservoir”. The committee have, therefore, recommended the use of a lighter paper weight (50 pounds, non-gloss) which will result in a net cost reduction of approximately $850/issue or $9,350 annually. The Executive have accepted this recommendation and it will be instituted in the New Year.

Advertising was also considered as a means of increasing revenue for the newsletter and while the potential is unknown, all indications are that it could be substantial. The most serious difficulty is that this would require adjustments in printing and particularly in the editorial work required. The Executive concluded that there was merit in encouraging the current information inserts, but it was not considered timely to launch into major advertising effort which would probably require additional staff or editorial support. However, with the current growth rate of the Society this is a consideration that should be under constant review.

It was concluded that we should continue with the current printer and utilize first class mail service to maintain the current relevance and timeliness in producing the Reservoir, while the main cost economy would be achieved by change in paper type.

CSPG OFFICE COMMITTEE (Ian McIlreath, Chairman Renovations; Dave Hergott, coordinator. John Anderson and Juanita Anderson, Paul Bazinet, Jeff Bever, Randy Cridland, Dave Dearborn, Julian Evanochko and Brenda Evanochko, Lloyd Gibbs, Dave Hergott, Ron Hill, Dave Hunter, Scott Morash, Dave Murray, Scott Oldale, Bob Raina and Pat Raina, Emil Rawlyk, Gerald Sullivan)

Peter Hay, who did an excellent job in soliciting an ample supply of furniture, was assisted in moving the furniture by Jeff Bever and Ernie Pratt. Fred Calverley arranged transportation for the move. Eleanor Halton was most helpful in finalizing our contract with the real estate firm.

The Society sincerely thanks all of the above people for the creation of a functional and attractive office in which the Society can conduct its business as an operational entity for the first time.


A special committee was formed in April to respond to proposed Federal Government research proposals summarized in a document entitled “Earth Sciences and Resources Development Issues”. This request was also made through Canadian Geoscience Council and a coordinated response was provided and conveyed to CGC by our representatives Dave Organ and Pat Purcell.

This committee had to work on relatively short notice and although individuals had varying opinions on the proposed research projects an overall consensus was not difficult to obtain as summarized below.

The federal government research proposals were outlined under four major headings — sedimentary basins,
formation of mineral deposits and detection of buried deposits, geological hazards and continental crust.

The committee is in general support of EMR research program. It agrees that most of the projects outlined fall within the mandate of a government research effort. Some suggested modifications and strong cautionary notes should be brought to the attention of the EMR group:

1. The Federal people should not, to use an old cliche, "try to reinvent the wheel." Much work has already been done on some of the research programs outlined.

It is strongly suggested that consultations be held with provincial, government research bodies and in some cases with universities to determine what work has already been done or is underway and that Federal research efforts be closely coordinated with these groups.

2. The role of private industry should be determined and defined although much industry research work is of a proprietary nature. It is possible that a substantial amount would be released by companies and contributed to the overall research effort.

3. Within the Federal research organization there should be a clear management direction with respect to priority of projects and manpower, and financial resources to be allocated to each. This is necessary in order to avoid fragmentation of the program and the promoting of certain "favourite" programs by some individuals or groups.

SOCIAL EVENTS

PAST PRESIDENTS' DINNER (A. E. Calverley)

The Past Presidents' dinner was held on September 13, 1982 at the Westin. This social evening was attended by 27 past presidents of the Society and six members of the Executive.

The dinner provided an opportunity for the current executive to meet a group of members, who through the years have made major contributions to the Society. Several of those attending were active in the early years of the organization. Discussions centered around the controversial issue of professional registration. It was brought out that this issue has been debated since the Society was first organized.

PUBLIC SERVICE

PUBLIC RELATIONS COMMITTEE (Donald Scharein, Chairman; Marjorie Sutherland)

The Public Relations committee provides a liaison between the Society and the electronic media and press. The role of this committee is to keep the general public, students and other societies informed of CSPG activities.

To achieve this goal, co-operation and co-ordination with other CSPG committees is necessary and the responsibility for initiating the "news" rests with the various committee chairmen.

This year's publicized events included the Annual Meeting, the Student Industry Field Trip and the Honorary Address featuring Dr. Phillip V. Tobias.

This year, Marjorie Sutherland joined the committee and Donald Scharein took over as committee chairman.

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. The solicitation of relevant information is continuing.

STUDENT INDUSTRY FIELD TRIP (R.E. Smith, Chairman; Rene Leveque, David Pimm, Jim Fisher, Virginia Costley, Belinda Hicks, Tony Hamblin; Field Trip Leaders, Ray Rhamani, Rand Harrison, Gil Graf)

The sixth annual CSPG Student Industry Field Trip was held between May 2-14, 1982.

This year marked the first time that each of the thirty-two Universities contacted sent a delegate. These students came from all across Canada bringing with them different ideas, training, and cultures.

The Calgary activities centred around seminars given on different aspects of the oil business, ranging from half day presentations on clastics and carbonates to inspection of cores as well as drill stem tests.

The out-of-town portion of the trip was broken into two parts, a) a one day field trip to the Drumheller area and b) a four day trip in the Rocky Mountains, ranging from Lake Louise to Waterton.

This was capped by a spectacular fly-over of the Rockies which gave the students a magnificent view of both stratigraphy and structure.

The group also participated in an exploration seminar which allowed the participants to apply their newly acquired skills in the search for hydrocarbons.

This year's winning teams in the exploration seminar competitions were:
SIFT Technical Winners
Doug Vanbeselaere
Andrew MacDonald
Jean Paquette
Ken Lewis
SIFT Business Winners
Margaret Steer
Dianne Edmond
Henry Coopman
Daniel Lebel

It is our belief that the students benefited from a very great deal both professionally and personally from having participated in the CSGP Student Industry Field Trip.

CSPG 50th ANNIVERSARY FUND (Fred Pember, Chairman Fund raising)

The fund achieved very modest growth during 1982, increasing in asset value from $190,000 to about $205,000 by year's end. This is an increased book value of about $15,000 or 8%. Early in the year, the decision was made to invest 25% of the account in equity issues which somewhat reduced the Fund's yield for the year. However, the Fund continues to be professionally managed by Royal Trust who are performing admirably despite the general negative economic conditions prevailing in 1982. For 1983 G.A. Grant will assume chairmanship of board of trustees and A.E. Calverley and Albert Jacobs will replace Messrs. R.H. Erickson and D.W. Axford. Our thanks to the latter trustees for their long service in guiding the growth of the fund.

Donations to the Fund for the year exceeded $5,100 from all sources with a noticeable increase from the membership response generating about 50% of this. It certainly appears as though the general awareness of the Fund has increased and its relationship to the Student Industry Field Trip. It is hoped that this positive attitude will be maintained and build further into 1983.

EDUCATION COMMITTEE ANNUAL REPORT 1982
(Chris Hurrell, Chairman; Kathy Hill, Kevin Hill, Sherman Hirowatari, Bob Lawrence)

A workshop and field trip were presented in June to 25 Calgary high school teachers. The activities, covering the geology of the Okotoks, Turner Valley and Bragg Creek areas, were funded by the Edgeo program of the Canadian Geoscience Council. Another field trip for teachers covering the structural geology of the Kananaskis area was prepared by Kathy and Kevin Hill but has not yet been presented due to bad weather.

We are again planning a C.G.C. funded Edgeo workshop/field trip for the spring of 1983 and also intend to present, when requested, the other field trips we have prepared.

DIVISIONS

STRUCTURAL GEOLOGY (Clinton R. Tippett, Chairman; Robert D. McMechan, Vice-Chairman)

The Structural Geology Division held monthly meetings throughout most of the year which were consistently attended by 25 to 50 geologists from industry, government and the universities. Eight excellent technical presentations and one open evening provided the topics for much discussion of current structural problems and their possible solutions. The subjects addressed during the year were:

January 11 Peter Jones, Consultant: The Triangle Zone
February 8 Robert Raeside, U. of Calgary: Structure polyphase deformation of the Horsethief Creek Formation near Mica Creek, southern British Columbia.
April 5 M.P. Cecile (speaker), D.G. Cook and S.P. Gordey, G.S.C.: The Plateau Over...

thrust, its hydrocarbon potential and balancing sections along strike, MacKenzie Mountains, N.W.T.

June 7 Roy Jones: Decompression mountain building.
October 4 Ian Young, Esso: Wrench-related folds in Neogene sediments developed along offshore Sandspit Fault trend, Queen Charlotte Basin, British Columbia.
December 6 Annual Slide Night.

On June 19 and 20, Eric Mountjoy led an enthusiastic cavalcade of geologists up the Icefields Parkway to Jasper, through the Front Ranges to Hinton and back through Jasper to the Malton Gneiss near Valemount, all the
while discussing the structural and stratigraphic problems of the region.

A full slate of presentations has been arranged for the spring of 1983 and the division will continue to carry out its mandate of providing a forum for the discussion of structural problems of all types.

GEOCHEMISTRY (L.R. Snowdon, Chairman; S. Creaney, Program Organizer)

Three technical meetings were held in the spring of 1982. Dr. J. du Rouchet and F. Monnier of Canterra Energy Ltd., Calgary, spoke on computer simulation of maturation (April 21), and quantitative gas generation (May 12), respectively. T. Tankard of Petro-Canada presented a talk on phosphates (June 5). Because the meetings are attended by a small group of specialists (usually 15-20 persons), the latitude for participation and discussion is quite large and the structure quite informal.

Lectures in the fields of geochemistry and organic petrology will continue to be presented under the auspices of this division on an ad hoc basis as speakers become available.

GEOMATHEMATICS (Ray Bugry)

The division did not have any formal meetings during the year 1981-82. Interest was lower than at any time since the division was formed. Hopefully, 1983 will provide an environment in which the interest in the division will be rejuvenated.

PALEONTOLOGY (J. Utting, Chairman)

Eight lunch-time lectures were given in 1982. Various fossil groups were discussed and these included some of the largest (dinosaurs) and some of the smallest (dinoflagellates). The geographical areas from which the various fossils were obtained included Alberta, Newfoundland, Quebec, Northwest Territories, Alabama, Montana, and various provinces in the Peoples Republic of China.

The speakers and the title of the talks are listed below:

P.J. Currie (Paleontological Museum and Research Institute)

"Herding behaviour in Horned Dinosaurs from Dinosaur Provincial Park, Alberta."

M.L.S. de Gasparis (Petro-Canada)

"Dinoflagellates and the Cretaceous-Tertiary Boundary in Alabama"

C.M. Henderson (Esso Resources)

"Conodont Occurrences and Evolutionary Considerations for the Genus Neogondolella from the Permian of Northern Ellesmere Island".

E.T. Burden (Memorial University, Newfoundland)

"Palynology of Lower Cretaceous Mannville Group, Alberta and Montana: Terrestrial Palynomorph Dispersal Patterns in 'Basal Quartz' Sands".

H. Plin-Gerbert (HBOG)

"Conodont Biostratigraphy of the Havre-aux-Maisons Formation, Lower Carboniferous, Magdalen Islands, Quebec."

Rui Lin and Liao Zhuo-ting (Nanjing Institute of Geology and Palaeontology, China, and I.S.P.G.)

"Recent Developments in Upper Palaeozoic Palaeontology (Especially Brachiopods and Fusulinids) in the Peoples Republic of China."

B.G. van Helden, Chevron Standard Ltd.

"Palynostratigraphy of the Hibernia Field Offshore Newfoundland."

J.P. Bujak, Petro-Canada

"Evolution of dinoflagellates."

The officers for 1983 will be W.W. Brideaux, Amoco Canada, Chairman; L.B. Braman, University of Calgary, Secretary; J.P. Bujak, Petro-Canada.

PETROLOGY (Richard Thom, Chairman; Dennis Meloche, Secretary; Fons Dekker, Committee Member)

The Petrology Division held its founding meeting on July 12, 1982 from 7:00 p.m. - 10:00 p.m. at the Foothills Professional Building, 1620 - 29th Street, N.W., Calgary, Alberta. Twelve people were in attendance. A discussion on the purpose and form of the proposed division was held with the following results:

i) The Petrology Division was formed to promote the exchange of ideas and information related to petrology, both academic and applied.

ii) Membership consists of any members of the C.S.P.G. who are interested in the functions of the Division.

iii) No dues are charged and the group is maintained by volunteers.

iv) Monthly meetings will be held at 7:30 p.m. in Petro-Canada's facilities at 40 Research Place, N.W., Calgary, Alberta.

v) Meetings are to be informal and discussional in nature with a thin section workshop.

vi) There will be a theme for each meeting with a short presentation to start the evening.

There have been six presentations since the founding meeting:

October 12 Tony Tankard (Petro-Canada). Tertiary Phosphorites, South Africa . . . their Chemistry, Petrology and Depositional Environments.

November 9 Gordon Tebbutt (Petro-Canada). Pleistocene and Holocene Carbonates . . . palaeoecology and diagenesis of selected Caribbean examples (Belize, St. Croix, Florida and Bahamas).

December 7 Sung Ho Youn (Gulf). Facies control on diagenesis . . . an example from the Elmworth Area, Alberta.

SEDIMENTOLOGY (Les Eliuk, Chairman; Nick Meijer Drees, Programs; Albert Wegelin, Secretary)

In 1982 the division's mandate of providing a forum for sedimentology information was fulfilled by nine interesting noon-hour talks and the excellent conference honouring Helen Belyea. "Major Controls on Devonian Stratigraphy and Sedimentation". Ashton Embry did yet another fine job in organizing the 18 talks by 23 contributors from all over North America. A meeting of March 18 and 19, 1982, and the accompanying banquet was a fitting tribute to Dr. Belyea and her work on the Devonian.

The noon-hour talks were as follows:


February 10 J.R. McLean Southern Dutch Tidal Flats.

March 10 M. Lerand Chungo Sandstone: Beach or Bank?

April 14 B.R. Pratt Mud Mounds - reefs built by blue-green algae.

May 12 R.J. Knight Macrotidal Estuary, Bay of Fundy.


October 7 N.C. Meijer Drees Sedimentary and Replacement Structures in the Devonian Prairie Evaporite Formation.

November 10 R.H. Workum Upper Devonian of the Rocky Mountains.

December 16 T.J. Powell Meeting of geochemistry and sedimentology.

At the beginning of the year Les Eliuk "inherited" the chairmanship from Ashton Embry, and Nick Meijer Drees kindly took on the major task of lining up speakers from Les Eliuk in mid year. Eleanor Halton passed on the task of sending out notices to Albert Wegelin. I thank the individuals and their employers for helping make our meetings possible. Because of core conferences associated with the University of Calgary and the AAPG in the spring no conferences were undertaken by the Division. Similarly none are planned for 1983 because of the core exhibit planned for "The Mesozoic of Middle North America".

COAL (Alice Bienia, Chairman; Les Smith, Tim Godfrey, Graham Wallis)

The Coal Division intends to provide a series of noon-hour talks centered around various aspects of coal research, exploration and development.

The committee is currently in the process of lining up speakers to present talks scheduled for the third Wednesday of each month to be held at the Petro-Canada Building Auditorium.

LIAISON REPRESENTATIVES

AAPG HOUSE OF DELEGATES (Allan Rupprecht, Chairman; Fred Rayer, Howard Schwartz, Dave Grant, Ian R. Halladay W.P. Kirker, L.M. Kaufman, Eugene U. Kulsky, Volkmar Schmidt, Ernest S. Spurgeon)

The CSPG has been affiliated with the AAPG since 1931 and is currently an "International Associate." As an affiliated society, we list CSPG/AAPG members to the AAPG House of Delegates which is responsible for all legislative affairs of the AAPG. The CSPG currently has 809 members who are also AAPG members and this entitles us to twelve AAPG delegates.

Delegates are responsible for representing the affairs of the Society at the House of Delegates meetings at the Annual AAPG Meetings they also serve a critical function in processing applications for membership and certification.

CANADIAN GEOSCIENCE COUNCIL (Dave Organ, Pat Purcell, O.L. Slinn, CSPG representatives)

The Council has under way reports on Mineral Deposit Research and on major Canada Earth Science Projects (such as deep earth sounding "lithoprobe"). The Council is attempting to initiate a report on research in the Canadian Petroleum Industry.

During the year, members of the Council met with Federal Government Management concerning the future direction of research within the Geological Survey of Canada. Research proposals included work on sedimentary basins, on the formation of mineral deposits, the detection of deeply buried mineral deposits, on geological hazards and on the continental crust.

A CSPG Committee, headed by Arme Nielsen, was in general support of these research objectives with the precautionary notes that the role of private industry be considered, that there be clear management direction, that monies be allocated with regard to priority and that research be utilitarian.

The Council continues to represent the overall interest of Earth Scientists and attempts to minimize discord that may develop between the various sectors of the Earth Science Community.

NORTH AMERICAN COMMISSION ON STRATIGRAPHIC NOMENCLATURE (Roland F. de Caen, E.H. Schultz)

See "Stratigraphic Nomenclature" under Other Scientific Programs section.

WORLD PETROLEUM CONGRESS (M.E. Hriskevich)

In 1982, the Scientific Program for the 1983 World Petroleum Congress to be held in London, England from August 28 to September 3, 1983 was finalized.

The Canadian Committee is pleased that Canada will be represented in each of the four different classifications of papers (Review Papers, Panel Discussions, Round Table Discussions, and Special Papers). There will be a total of 133 papers presented and eight of these will be by Canadian authors. Canadians will present one Review Paper, three Panel Discussion papers, three Round Table Discussion papers, and one Special Paper. In addition, five Canadians will act as Chairmen or Vice-Chairmen and one will be a panelist at a Round Table Discussion. This representation by Canada is a reflection of the work that has been put forth by the Canadian National Committee during the past few years.

Information regarding attendance at the Congress should be available early in 1983.

PETROLEUM RESOURCE COMMUNICATION FOUNDATION (R.M. (Bob) Creed, C.S.P.G. Liaison)

During 1982, the Petroleum Resources Communication Foundation continued, "to create an increased public awareness and understanding in Canada of the oil and gas exploration industry and related industries". Recent national public opinion studies commissioned by P.R.C.F. revealed that the underlying concern of Canadians toward the oil and gas industry is "price" and that issue became the major focus of the 1982 communications program. Additionally, the P.R.C.F. continued to distribute films, the "Oil and Gas Forum", previous informational material and the revised edition of "Our Petroleum Challenge" to the preparation of which the C.S.P.G contributed.

In order to address the overall Canadian concern regarding "price", the P.R.C.F. undertook two major advertising campaigns in 1982. During February-March and again in September-October, extensive multi-media advertising displayed the breakdown of every dollar spent at gas pumps across Canada. The advertisements further requested that interested Canadians inquire of both industry and government as to where the money/taxes are going. The response to this advertising experienced a five-fold increase to general oil and gas related advertising and evoked a remarkably high level of awareness amongst Canadians. This program contributed significantly to the 1982 Foundation objective of rallying "strong public support to negotiate a place for industry in future discussion on oil and gas in Canada".

APEGGA COMMITTEES

During the last several years the C.S.P.G. President has been the liaison contact with APEGGA. In the past the liaison function was primarily related to information and co-ordination between the technical societies grouped within APEGGA and has resulted in bi-annual liaison committee meetings. As a result of recent developments stemming from the APEGGA/Professionalism Committee (see under Business Committees) the President of the Society has obtained observer status on APEGGA Council and the Society has additional representation through the joint standing committee of APEGGA/CSEG/CSPG. CSPG members are of course represented on a number of other APEGGA Committees.

APEGGA - STUDENT AFFAIRS (Harold Hornford)

The University of Calgary's joint Geological-Geophysical Student Affairs Committee was organized as a means to provide liaison between the Geological and Geophysical students at the University, and practising members of the professions. Five meetings were held during the University year attended by the executive committees of the Rundle Group Geology Club and the Geophysics Society, and by delegates from the CSPG, CSEG, and APEGGA. The professional members of the committee provide advice to the group on the organization of their technical functions and guidance on any professional related matters, as well as assisting in providing speakers and suggested topics for the on campus fall and spring Beer and Bull sessions.
CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS
GENERAL FUND
STATEMENT OF RECEIPTS AND DISBURSEMENTS
YEAR ENDED NOVEMBER 30, 1982

1982 FINANCIAL REPORT
Paul M. Gagnon
Treasurer

This report covers the year ending November 30, 1982 and includes financial statements prepared by our auditor, Mr. John D. Robinson of Deloitte, Haskins and Sells.

As of November 30, 1982 the Society had funds on hand of $160,762 as compared with $258,419 the previous year. This represents a reduction in funds of $97,657, which is the excess of disbursements over cash revenues for the year. Members’ equity on a cash basis on November 30, 1982 was $249,662. This compares with $330,719 a year earlier.

In 1981, a new auditing policy was instituted which our auditor felt was appropriate for the Society. The auditor was instructed to report only on receipts and disbursements of the General Fund, and not on the results of activities of various committees. Therefore, accounting is currently done on a cash basis rather than on an accrual basis. Accounts payable and receivable are no longer reported — only cash transactions. The costs of the Society’s inventory of publications has been estimated and is included as a note to the financial statement.

The turn-around of our Society’s fortunes from a profit of $65,000 in 1981 to a loss of $97,000 this year requires further examination. The Bulletin cost an additional $40,000, partly due to the publication of five than the normal four. An increase in postage also added significantly to Bulletin expense. Office expense increased by $20,000 this year reflecting the move to our own office. An increase of $32,000 in expenditures was incurred in printing, stationery and postage expense, again the result of the move to the new office and increased mailing charges of the Reservoir. Interest earned this year was $26,000 less due to falling rates and a decrease in monies available. The technical program had a $10,000 profit in 1981 versus a $20,000 loss this year, a swing of $30,000. This is due primarily to funds not being transferred to the general account until after year-end, and the change of hotels for several talks. Also, last year’s figures represent an unexplained $18,000 bonus which, unfortunately, did not re-occur!

In May of 1982, your Society opened its own office with a staff of two. This was done on advice from both professional consultants and previous Executive Committees. Office expense increased along with other expenses, especially mailing costs. To offset these costs, the Executive Committee recommended raising the annual dues to $40.00. The recommendation was passed by the membership and becomes effective for the 1983 year, the first fee increase since 1978. This added revenue plus the revenue from publication sales will allow the Society financial flexibility for the forthcoming year.

The success of the Society is due to the untiring efforts of hundreds of volunteers who have maintained the high standards the membership has come to expect. It has been a rewarding experience and an honour to have served with members of the Society and the Executive who have supported me in a patient and co-operative manner. Thank you.
CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS
GENERAL FUND

Statement of Receipts and Disbursements for the Year Ended November 30, 1982 and Auditors’ Report to the Members

AUDITORS’ REPORT

To the Members of
Canadian Society of Petroleum Geologists

We have examined the General Fund statement of receipts and disbursements of the Canadian Society of Petroleum Geologists for the year ended November 30, 1982. 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 not-for-profit organizations, the General Fund of the Society derives part of its revenue from memberships and other activities and programs 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 effect of adjustments, if any, which we might have determined to be necessary had we been able to extend our examination of revenue from memberships and other activities and programs as described in the preceding paragraph, this financial statement presents fairly the General Fund of the Society for the year ended November 30, 1982 in accordance with the accounting principles described in Note 1 on a basis consistent with that of the preceding year.

Auditors
January 14, 1983
# Canadian Society of Petroleum Geologists

## General Fund

**Statement of Receipts and Disbursements**

*Year Ended November 30, 1982*

<table>
<thead>
<tr>
<th></th>
<th>1982</th>
<th>1981</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Receipts</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General - Schedule</td>
<td>$132,874</td>
<td>$184,833</td>
</tr>
<tr>
<td>American Association of Petroleum Geologists joint conference</td>
<td>61,270</td>
<td>—</td>
</tr>
<tr>
<td>Bulletin</td>
<td>27,674</td>
<td>24,585</td>
</tr>
<tr>
<td>Calendar</td>
<td>8,247</td>
<td>8,036</td>
</tr>
<tr>
<td>Newsletter</td>
<td>20,336</td>
<td>4,908</td>
</tr>
<tr>
<td>Publications</td>
<td>96,398</td>
<td>52,648</td>
</tr>
<tr>
<td>Arctic symposium</td>
<td>—</td>
<td>36,000</td>
</tr>
<tr>
<td>Continuing education</td>
<td>—</td>
<td>8,844</td>
</tr>
<tr>
<td>Energy audit of the 80's</td>
<td>—</td>
<td>39,575</td>
</tr>
<tr>
<td>Technical program</td>
<td>—</td>
<td>15,025</td>
</tr>
<tr>
<td>1981 core conference</td>
<td>—</td>
<td>14,686</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>346,799</strong></td>
<td><strong>389,140</strong></td>
</tr>
</tbody>
</table>

| **Disbursements**        |            |            |
| General - Schedule       | 123,487    | 80,465     |
| American Association of Petroleum Geologists joint conference | 2,536      | —          |
| Awards                   | 3,178      | 5,069      |
| Bulletin                 | 104,565    | 60,668     |
| Continuing education     | 4,518      | 5,269      |
| Donations                | 4,270      | 8,974      |
| Newsletter               | 31,780     | 29,262     |
| Publications             | 113,016    | 72,114     |
| Speaker honoraria         | 10,541     | 2,078      |
| Student industry field trip (Note 3) | 26,775 | 25,928 |
| Technical program        | 9,790      | 4,924      |
| 1983 Mesozoic conference | 10,000     | 1,000      |
| Arctic symposium         | —          | 15,586     |
| Calendar                 | —          | 12,429     |
| **Total**                | **444,456**| **323,766**|

**Deficiency Excess of Receipts over Disbursements**

- (97,657) 65,374

<table>
<thead>
<tr>
<th>Funds on Hand, Beginning of Year</th>
<th>258,419</th>
<th>193,045</th>
</tr>
</thead>
<tbody>
<tr>
<td>Funds on Hand, End of Year (Note 2)</td>
<td>$160,762</td>
<td>$258,419</td>
</tr>
</tbody>
</table>
1. Significant accounting policies

The statement of receipts and disbursements has been prepared in accordance with the following policies:

Equipment —

Equipment purchases are expensed in the year of acquisition.

Inventory —

As the Society’s statement is prepared on the basis of receipts and disbursements, inventory of publications is not reflected in the statement.

The inventory of publications on hand as at November 30, 1982 amounted to $88,900; (1981 — $72,300) valued at the lower of cost or net realizable value.

2. Funds on hand

Funds on hand consist of the following:

<table>
<thead>
<tr>
<th></th>
<th>1982</th>
<th>1981</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>$110,762</td>
<td>$74,557</td>
</tr>
<tr>
<td>Term deposits</td>
<td>50,000</td>
<td>183,862</td>
</tr>
<tr>
<td></td>
<td><strong>$160,762</strong></td>
<td><strong>$258,419</strong></td>
</tr>
</tbody>
</table>

3. 50th Anniversary Trust Fund

The society established a trust fund in 1978 to accumulate contributions for the purpose of funding student industry field trips. The balance of the trust fund is as follows:

<table>
<thead>
<tr>
<th></th>
<th>November 30,</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1982</td>
</tr>
<tr>
<td>Cash</td>
<td>$4,023</td>
</tr>
<tr>
<td>Term deposits</td>
<td>147,650</td>
</tr>
<tr>
<td>Marketable securities</td>
<td>64,633</td>
</tr>
<tr>
<td></td>
<td><strong>$216,306</strong></td>
</tr>
</tbody>
</table>

SCHEDULE

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

GENERAL FUND

SCHEDULE OF GENERAL RECEIPTS AND DISBURSEMENTS

YEAR ENDED NOVEMBER 30, 1982

<table>
<thead>
<tr>
<th></th>
<th>1982</th>
<th>1981</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECEIPTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memberships</td>
<td>$99,467</td>
<td>$92,850</td>
</tr>
<tr>
<td>Interest</td>
<td>22,738</td>
<td>58,874</td>
</tr>
<tr>
<td>Earth science</td>
<td>5,515</td>
<td>7,717</td>
</tr>
<tr>
<td>Foreign exchange</td>
<td>3,125</td>
<td>—</td>
</tr>
<tr>
<td>Other</td>
<td>2,029</td>
<td>25,392</td>
</tr>
<tr>
<td></td>
<td><strong>$132,874</strong></td>
<td><strong>$184,833</strong></td>
</tr>
</tbody>
</table>

DISBURSEMENTS

<table>
<thead>
<tr>
<th></th>
<th>1982</th>
<th>1981</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advertising</td>
<td>$4,212</td>
<td>$4,069</td>
</tr>
<tr>
<td>Annual meeting</td>
<td>4,719</td>
<td>10,884</td>
</tr>
<tr>
<td>Audit and accounting</td>
<td>4,954</td>
<td>13,882</td>
</tr>
<tr>
<td>Conventions</td>
<td>—</td>
<td>700</td>
</tr>
<tr>
<td>Earth science</td>
<td>7,984</td>
<td>6,256</td>
</tr>
<tr>
<td>Office services</td>
<td>46,591</td>
<td>26,043</td>
</tr>
<tr>
<td>Other</td>
<td>8,794</td>
<td>3,589</td>
</tr>
<tr>
<td>Printing, stationery and postage</td>
<td>45,483</td>
<td>13,192</td>
</tr>
<tr>
<td>Society affiliates</td>
<td>750</td>
<td>1,850</td>
</tr>
<tr>
<td></td>
<td><strong>$123,487</strong></td>
<td><strong>$80,465</strong></td>
</tr>
</tbody>
</table>
ADDENDA
UNDERGRADUATE STUDENT AWARDS

Alberta: Timothy Hersch
Calgary: Roland Dechesne
McGill: Don Kaylor
Montreal: Daniel Lebel
Queen's: Ethel Wilshire
Regina: Henry Koopman
St. Mary's: John Zevenhuizen