PRESIDENT’S REPORT

(Ed Klovaa)

The first year of the decade was, as anticipated, an exciting and eventful year for the Canadian Society of Petroleum Geologists. The Annual Convention, Basin Perspectives and with it the first peek at what the new Geological Atlas of the Western Canada Sedimentary Basin will contain, was the most conspicuous of the many events conducted by the 90 or so committees active throughout the year. The reports that follow represent a summary account of CSPG activities for the year 1990, as compiled by committee chairpersons. Plans for activities in 1991 and 1992 are well underway. The Annual Convention, Opportunities for the 90’s, holds promise of many exciting technical papers, field trips, short courses and social events. And, of course, the long awaited Geological Atlas of the Western Canada Sedimentary Basin will appear in print. Plans are well underway for the hosting of the AAPG Annual Convention in 1992.

HIGHLIGHTS OF 1990. Apart from the multitude of day-to-day affairs that had to be completed, the Executive Committee devoted a great deal of time and effort toward the business operations of the Society, in order to comply with accounting requirements and the imminent imposition of the GST, they converted to the accrual method of accounting. The firm of Collins Barrow was hired to conduct the 1990 audit and to aid in this conversion.

As in years past, a wide variety of projects and activities, organized and conducted by some 650 volunteer members, made 1990 a technically and socially rewarding year.

PUBLICATIONS. Several new publications appeared in 1990. A textbook, Western Canada Sedimentary Basin — A Case History, appeared early in the year and was an instant bestseller. Volume 4 of the Lexicon of Canadian Stratigraphy Series — “Western Canada” sold extremely well. The long awaited Oil and Gas Pools of Canada series was published and appears to be selling well also. Several field guidebooks and short course notes were reprinted due to continuing high demand.

The CSEG-CSPG Geophysical Atlas of Western Canadian Hydrocarbon Pools continued to be on the bestseller list. The CSEG and CSPG jointly donated a copy of this important work to earth science departments of all the universities across Canada.

Just released is a reprint of Land Forms of Alberta, a pictorial book on geomorphic features of Alberta.

Memoir 16, Clastic Tidal Sedimentology, is being prepared for publication and is expected to become available in mid 1991. Volume 2 of the Oil and Gas Pools of Canada series is expected to be published in 1991. Work on further volumes of the Lexicon series is ongoing. Of course, the major publication for 1991 will be the Geological Atlas. Although projected publication and printing costs have increased dramatically, the Society is in a good financial position to meet its obligations. It is anticipated that the unit cost of the Atlas will be in the range of $150.

The quarterly Bulletin maintained its high standard of technical publication. Approximately 40 manuscripts were printed in 1990. For the first time, the abstracts of the annual meeting were published in the Bulletin. A special issue covering the Peace River Arch will appear in early 1991.

The Reservoir grew substantially in size this year. Production problems, which affected its timeliness, plagued the Reservoir during the year. However, steps have been taken to overcome the delays.

There is a real need for the membership and technical committees to undertake the development of new memoirs and special publications for the immediate future. The books form a vital link in the dissemination of technical material to society members.

CONVENTIONS. The 1990 Annual Convention was entitled Basin Perspectives. It was a huge technical and social success, attracting 2000 participants. Many papers and poster sessions
were centered on material from the Geological Atlas, as well as research projects on the Peace River Arch, which will appear soon in the special issue of the Bulletin. The convention was successful in achieving high technical standards. As well, innovative techniques for attracting convention sponsors were in no small measure responsible for the healthy profit of $120,000 generated by the convention. Chairperson Rick Young and his active committee are to be commended for a job especially well done.

For the core conference, 1990 was an “off-year” and, apart from several seminars on special topics, no other major symposia or conferences were held.

The 1991 Annual Convention, Opportunities for the Nineties, under the leadership of Wes Waddell, will be held June 16-19 in the Calgary Convention Centre. It will focus on opportunities for success in the current decade, including exploration in mature basins, use of new technology, the international market, and economics. Poster sessions, field trips, short courses, as well as an innovative social program will all contribute to a “must” event for members in 1991.

George Eynon has assembled an impressive team to organize the 1992 AAPG-CSPG Annual Convention. The theme will be Environments of Exploration. It is scheduled for June 21-24 and, like its predecessor in 1982, will be centered at the Stampede Grounds in Calgary. Members are encouraged to volunteer for the multitude of positions and tasks associated with this truly enormous undertaking.

Preliminary plans for 1991 are slowly taking place. It is felt that a strong field-oriented convention might be appropriate after three consecutive, very large, conventional conventions. Suggestions and volunteers are welcomed.

NEW IN NINETY. A new division, “Environmental Geology”, was inaugurated in 1990. Jack Century and a group of “golden oldies” were instrumental in formulating terms of reference and presiding through the birth of this division. If the activities undertaken during its first year are any indication, it promises to be one of the most aggressive divisions in the Society. We wish the division every success in imparting the important knowledge that geologists can bring to environmental matters.

On the social scene, a new “Open Golf” tournament was organized and successfully run at the Cottonwood Golf Course. This tournament is a welcome addition to the golf menu, nicely supplementing the 30-year-old Men’s Tournament and the more recent Ladies’ Tournament. Thanks to Bill Haskett and an energetic committee for their hard work in getting this off the ground.

In September, the Society took an active role in National Science and Technology Week. This event, whose primary objective is to increase the public’s awareness of science, was organized rather hurriedly by a small organizing committee of geologists from the Institute of Sedimentary and Petroleum Geology. A display was set up at the Science Centre and noon-hour walking tours were organized of the geology of downtown building stones. Both activities were well received by the public. But, in my view, the most important activity provided was a field trip conducted for some 50 elementary school teachers. The trip, run by Professor Len Hills, took the teachers to the Banff area and emphasized ‘erosion’, a topic the teachers will be dealing with in their elementary classes. We hope to make this an annual event as we feel it is a most effective way of promoting geology to children in an early age.

FINANCIAL. As mentioned in the preamble, a great deal of effort has been devoted to overhauling the accounting methods. This was brought on by several factors. First, the cash flow of the Society is now such that the streamlining of accounting procedures is a real necessity. Keeping track of funds has become an onerous task for the volunteer Executive. Second, the Canadian Society of Chartered Accountants has recently stated that the accrual method of accounting must be used if an accredited audit is to be conducted. Finally, the impending implementation of the GST necessitated a revision of accounting procedures. The accrual method will allow the Executive to have a much better picture of the finances at any given time. Furthermore, it takes into account a not insignificant amount of money held by various committees. These funds have not been accounted for in the past. This, of course, means that the committees will be required to keep better records than in the past.

As shown by the Treasurer’s report, the Society had a financially successful year. The net profit of $81,070 was almost entirely due to revenue generated by the Annual Convention.

From examination of the expenses/revenue statement, it is clear that the revenue generated from membership no longer covers the basic expenses, such as the Bulletin and support of technical activities. Clearly this situation cannot continue without seriously jeopardizing the financial integrity of the Society. Although the Society ends 1990 in a very secure financial position, the incoming Executive and membership will have to continue their efforts toward maintaining this commendable state of affairs.

SUMMARY. It has been a great pleasure and certainly an honour to represent the membership as its president. It has been a wonderful experience to work with so many energetic, dedicated committee volunteers. To the members of the Executive Committee, I extend my sincere thanks for all your hard work and dedication. I wish to acknowledge publicly the tremendous help given me by Bill May and Jim MacDonald during the periods of ill health I experienced early in my term. I extend thanks, on behalf of the entire Society, to the hardworking office staff.

To President MacDonald and the new Executive, I wish you every success in 1991.
TREASURER'S REPORT
Fiscal Year Ending November 30, 1990

(Shelia Hinton)

OVERVIEW

The past year has been a challenging one for the Society from a financial management perspective. To begin with, we were required to change the CSPG's accounting system to the accrual method from the cash method, to comply with guidelines issued by the Canadian Institute of Chartered Accountants for non-profit organizations. Simply stated, the changeover means that all expenses and revenue of the Society and its subcommittees must now be entered in the books according to the applicable fiscal year and not the date the Society receives any revenue or pays an invoice. For example, any membership dues received prior to November 30, 1990 for the 1991 membership year will not show on our books as revenue until next year. All expenses are handled similarly. This new accounting method not only entailed learning a new way of balancing the Society's books, but necessitated a more detailed look at the CSPG funds on its behalf. Another added twist this year was the Federal Government's implementation of the Goods and Services Tax ("GST"). As you may be aware, the CSPG decided to apply the tax to both memberships and publications, so that the tax paid out on services can be recouped from the Government.

AUDIT REPORT

As any audit report must show figures of the previous year for comparative purposes, all 1989 records had to be reviewed so that these figures could be restated for the 1990 audit on the accrual basis. Therefore, the 1989 figures listed in this year's report differ markedly from those in the CSPG's financial statements of last year. The main differences resulting from the audit being performed on the accrual basis are:

- addition of a Balance Sheet, including a statement of accounts receivable, deferred revenue, accounts payable, and prepaid expenses
- reorganization of reporting categories of Society operations
- accounting for all subcommittee revenue and expenses, including those of the Geological Atlas Fund1 (an additional $390,000, which was absent last year, is included in the restated 1989 figures)
- addition of the valuation of publications inventory and cost of sales

1 Although the Geological Atlas Fund is included in this year's audit report, it is a restricted fund and is, therefore, not included in any profit/loss considerations of the Society.

This year, the CSPG enlisted the services of Collins Barrow Chartered Accountants, who not only prepared the year-end financial statements, but assisted us with the implementation of accrual accounting and the GST.

An outline of the CSPG's financial status is given below, for the year ending November 30, 1990, according to the financial statements prepared by Collins Barrow Chartered Accountants.

FINANCIAL REPORT

The Society realized a net profit of $81,070 for the 1990 fiscal year compared to $171,584 in 1989. In summary, the decrease of $90,514 in profit compared with last year is due mainly to:

- the net loss resulting from declining membership revenue in conjunction with rising costs associated with Society operation
- decline in publications income
- lower income from technical programs

Luckily, the above losses were offset by the profit from the 1990 Annual Convention. The following describes the financial status of the Society's major activities:

OPERATIONS AND ADMINISTRATION. This category includes all core functions relating to the workings of the membership of the CSPG. Revenue is raised through membership fees, Bulletin subscriptions, Bulletin and Reservoir advertising, and interest earned on general fund and committee investments. This revenue is intended to offset our operating expenses, the list of which is longer than the revenue side: Bulletin and Reservoir publication and advertising costs, office expenses (employee salaries, office rent, equipment leases, maintenance, insurance, stationery, postage and supplies, services and bank charges), CSPG awards, and miscellaneous expenses, such as the Annual Business meeting and those of certain committees (Public Service, liaisons, and the Executive).

Since last year, our net income from operations has dropped $85,784 to a net loss of $33,930. The main reasons for the decline are:

- lower membership and advertising revenue
- increased Bulletin, Reservoir, and advertising costs
- rising office expenses
- higher awards and committee expenses

The CSPG has continued its investment program using low risk vehicles such as Bankers' Acceptances, term deposits, T-bills, and GICs. The Society had $486,522 of short-term deposits booked at year-end.
PUBLICATIONS. This year's Audit Report now includes all revenue and expenses for CSPG publications, joint publications (Geophysical Atlas, Canadian Journal of Earth Science, Canadiana Palaeontographica, the Corridors of Time), and AAPG publications. As mentioned previously, this year's reporting also includes a valuation of inventory and the cost of sales. Revenue from sales of all publications are down $55,675 this year. Our publications costs are also down. However, with the addition of inventory considerations and associated cost of sales, overall costs are up from 1989, resulting in a decline of $55,376 in net income to $11,756.

TECHNICAL PROGRAMS. Included here are technical lunches, continuing education, the Honorary Address, field trips, the Visiting Lecturers' program, core conferences, and technical symposia. Total net income from these programs has dropped $47,310 from last year to $15,509. This is a result of a drop in income for continuing education and an increase in expenses of the Visiting Lecturers' program. Last year the 1989 Tidal Symposium realized a profit; this is, of course, absent for 1990.

ANNUAL CONVENTION. This year's convention was not only a technical success but a financial one as well. A profit of $112,430 was made, an increase from the 1989 convention profit of $11,221.

SOCIAL EVENTS. The total revenue and expenses under this category have increased, due to the addition of the Open Golf Tournament and 10K Road Race in 1990. Although some of the social committees operate on a break-even or slight profit basis, several of them do operate at a loss. This is reflected in the total 1990 net loss of $1883 associated with social events, an increase of $453 over 1989.

GEOLOGICAL ATLAS FUND. As mentioned earlier, the financial status of the Atlas Fund is included in the CSPG's audit, but is not reflected in profit or loss considerations due to its restricted status. The fund raising committee has continued its efforts in 1990 to add $157,123 to the fund, so that the balance in the fund at year-end was $360,157. An additional $67,200 has been pledged by donors to this fund, and approximately $33,150 worth of atlases will be distributed by the Committee in consideration of donations. The printing of the Atlas is scheduled for 1991; the CSPG has committed $350,000 toward this.

SUMMARY

The 1990 net income of $81,070 leaves the Society in a healthy position again this year, although not as healthy as last year. I do not wish to detract from the financial success we've seen this year, but I cannot predict this level of profit to continue over the next few years. Why? Our membership revenue has been declining gradually, and our cost of operation is increasing. In addition, the Society does not have many new publications scheduled for release over the next few years and, therefore, cannot expect a significant increase in publication income. This, coupled with the prospect of lower profits or even possible losses from future conventions, would indicate that the Society is unlikely to maintain the strong financial position it has enjoyed over the last few years.

Given the nature of the CSPG's activities, it is difficult to project the expected revenue and expenses with a high degree of accuracy on an annual basis. The Society attempts to monitor its financial situation on an ongoing basis, including a forecast five years into the future. The aim is, and will continue to be, financial stability for the Society to provide maximum benefits for the membership.
AUDITORS' REPORT

To the Members
Canadian Society of Petroleum Geologists

We have audited the balance sheet of the Canadian Society of Petroleum Geologists as at November 30, 1990 and the statement of operations and surplus for the year then ended. These financial statements are the responsibility of the Society's management. Our responsibility is to express an opinion on these financial statements based on our audit.

Except as explained in the following paragraph, we conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In common with many non-profit organizations, the Society derives revenue from donations and membership fees, the completeness of which is not susceptible to satisfactory audit verification. Accordingly, our verification of these revenues was limited to the amounts recorded in the records of the Society and we were not able to determine whether any adjustments might be necessary to revenues, net income, assets and surplus.

In our opinion, except for the effect of adjustments, if any, which we might have determined to be necessary had we been able to satisfy ourselves concerning the completeness of the revenue referred to in the preceding paragraph, these financial statements present fairly, in all material respects, the financial position of the Society as at November 30, 1990 and the results of its operations for the year then ended in accordance with generally accepted accounting principles.

Collins Barrow
CHARTERED ACCOUNTANTS

Calgary, Alberta
January 4, 1991
CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

BALANCE SHEET

NOVEMBER 30, 1990

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>1990</th>
<th>1989 (restated)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current assets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash</td>
<td>$ 257,720</td>
<td>$ 174,213</td>
</tr>
<tr>
<td>Short-term deposits</td>
<td>486,522</td>
<td>434,929</td>
</tr>
<tr>
<td>Accounts receivable and prepaid expenses</td>
<td>33,103</td>
<td>25,661</td>
</tr>
<tr>
<td>Inventory</td>
<td>170,032</td>
<td>178,571</td>
</tr>
<tr>
<td></td>
<td>947,387</td>
<td>813,374</td>
</tr>
<tr>
<td>Restricted funds (note 3)</td>
<td>360,157</td>
<td>203,034</td>
</tr>
<tr>
<td></td>
<td>$ 1,307,544</td>
<td>$ 1,016,408</td>
</tr>
</tbody>
</table>

LIABILITIES

|        |            |                 |
| Current liabilities |          |                 |
| Accounts payable and accrued liabilities | $ 51,284 | $ 25,185       |
| Deferred revenue | 87,050 | 60,206         |
|                   | 138,334 | 85,391         |

MEMBERS' EQUITY

|        |            |                 |
| Surplus | 1,169,210  | 931,017         |
|         | $ 1,307,544 | $ 1,016,408    |

Approved on behalf of the Society,

[Signatures]

Director

[Signature]
**CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS**

**STATEMENT OF OPERATIONS AND SURPLUS**

**YEAR ENDED NOVEMBER 30, 1990**

<table>
<thead>
<tr>
<th></th>
<th>1990</th>
<th>1989 (restated)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Membership fees</td>
<td>$183,079</td>
<td>$196,625</td>
</tr>
<tr>
<td>Advertising and subscriptions</td>
<td>77,174</td>
<td>87,369</td>
</tr>
<tr>
<td>Interest and other income</td>
<td>66,196</td>
<td>61,546</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td>326,449</td>
<td>345,542</td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating expenses - Schedule 1</td>
<td>360,379</td>
<td>293,688</td>
</tr>
<tr>
<td><strong>Income (loss) from general operations</strong></td>
<td>(33,930)</td>
<td>51,854</td>
</tr>
<tr>
<td><strong>Other income (expenses)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Publications - Schedule 2</td>
<td>11,756</td>
<td>67,132</td>
</tr>
<tr>
<td>Technical programs - Schedule 3</td>
<td>15,509</td>
<td>62,819</td>
</tr>
<tr>
<td>Annual convention - Schedule 4</td>
<td>112,430</td>
<td>101,209</td>
</tr>
<tr>
<td>Social Events - Schedule 5</td>
<td>(1,883)</td>
<td>(1,430)</td>
</tr>
<tr>
<td>50th Anniversary Fund donation</td>
<td>(22,812)</td>
<td>(110,000)</td>
</tr>
<tr>
<td><strong>Net income</strong></td>
<td>115,000</td>
<td>119,730</td>
</tr>
<tr>
<td><strong>Surplus, beginning of year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>As originally reported</td>
<td>418,432</td>
<td>331,655</td>
</tr>
<tr>
<td>Adjustment for retroactive change in accounting policy (note 2)</td>
<td>492,585</td>
<td>324,744</td>
</tr>
<tr>
<td>As restated</td>
<td>931,017</td>
<td>656,399</td>
</tr>
<tr>
<td>1,012,087</td>
<td>827,983</td>
<td></td>
</tr>
<tr>
<td><strong>Atlas Finance Fund - Schedule 5</strong></td>
<td>157,123</td>
<td>103,034</td>
</tr>
<tr>
<td><strong>Surplus, end of year</strong></td>
<td>$1,169,210</td>
<td>$931,017</td>
</tr>
</tbody>
</table>
1. Accounting policies

a) Inventory

Inventory of publications is valued at the lower of cost and net realizable value. Cost is determined on a specific item basis.

b) Fixed assets

Expenditures on fixed assets are expensed as incurred by the Society. Expenditures for the current year amounted to $4,947.

c) Income taxes

The Canadian Society of Petroleum Geologists is a non-profit organization. Accordingly, no provision for income taxes has been made in these financial statements, as the Society is exempt pursuant to Section 149(1)(1) of the Income Tax Act.

d) Donation pledges

Donations pledged in conjunction with Atlas Finance are recorded when receipt is assured. At November 30, 1990, pledges in the amount of $67,200 had not been accrued in the accounts.

2. Change in accounting policy

In 1990, the Society changed its basis of accounting from the cash basis to the accrual basis in order to comply with the recommendations issued by the Canadian Institute of Chartered Accountants for non-profit organizations for fiscal periods beginning after January 1, 1989.

This change has been applied retroactively and the prior year's financial statements restated. As a result, the prior year's net income was increased by $64,807, the prior year's Atlas Finance Fund was increased by $103,334, and the current year's opening surplus was increased by $492,585 (1989 - $324,744).

The financial statements for the year ended November 30, 1989, consisting of a General Fund statement of receipts and disbursements, were reported on by another firm of Chartered Accountants.
3. Restricted funds

The Society has entered into a joint venture with the Alberta Research Council to publish and market a Geological Atlas of the Western Canada Sedimentary Basin. The Society's fund-raising activities in connection with this joint venture have generated $360,157 (1989 - $203,034) which includes $109,000 transferred from the operating surplus (see Schedule 6 - Atlas Finance Fund).

The restricted funds are as follows:

<table>
<thead>
<tr>
<th></th>
<th>1990</th>
<th>1989</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and short-term deposits</td>
<td>$353,541</td>
<td>$199,251</td>
</tr>
<tr>
<td>Accrued interest receivable</td>
<td>6,616</td>
<td>3,783</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$360,157</strong></td>
<td><strong>$203,034</strong></td>
</tr>
</tbody>
</table>

4. Expenses recovered

Expenses recovered include amounts received as reimbursement of stationery and supplies, postage, awards, salaries, public service and equipment lease expenses.

5. Commitments

a) Atlas Finance Fund

The Society is committed to spending an estimated $350,000 in 1991 in printing costs for the Atlas. In addition, Atlases valued at approximately $33,150 will be distributed on a complimentary basis to donors in conjunction with the fund-raising campaign.

b) Memoir 16 Classic Tidal Sedimentology

The Society is committed to spending up to $25,000 in 1991 for publication costs of Memoir 16.

c) Lease commitments

The Society has lease commitments for premises and office equipment as follows:

<table>
<thead>
<tr>
<th></th>
<th>1991</th>
<th>1992</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$36,755</td>
<td>$13,631</td>
</tr>
</tbody>
</table>

6. Statement of cash flow

A statement of cash flow has not been presented as it would not provide additional useful information.
## Schedule 1

**Canadian Society of Petroleum Geologists**

**Schedule of Operating Expenses**

*Year Ended November 30, 1990*

<table>
<thead>
<tr>
<th>Item</th>
<th>1990</th>
<th>1989</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulletin publication</td>
<td>$106,198</td>
<td>$92,948</td>
</tr>
<tr>
<td>Reservoir publication</td>
<td>76,104</td>
<td>68,681</td>
</tr>
<tr>
<td>Advertising sales committee</td>
<td>3,967</td>
<td>2,452</td>
</tr>
<tr>
<td>Annual general meeting</td>
<td>1,646</td>
<td>2,447</td>
</tr>
<tr>
<td>Awards</td>
<td>10,436</td>
<td>10,504</td>
</tr>
<tr>
<td>Executive committee and membership refunds</td>
<td>8,072</td>
<td>4,911</td>
</tr>
<tr>
<td>Liaison committees</td>
<td>11,477</td>
<td>3,973</td>
</tr>
<tr>
<td>Public service</td>
<td>939</td>
<td>3,076</td>
</tr>
<tr>
<td>Bank charges and Visa</td>
<td>2,527</td>
<td>3,510</td>
</tr>
<tr>
<td>Equipment leases and maintenance</td>
<td>17,148</td>
<td>13,987</td>
</tr>
<tr>
<td>Insurance</td>
<td>1,725</td>
<td>3,930</td>
</tr>
<tr>
<td>Office rent</td>
<td>29,534</td>
<td>20,235</td>
</tr>
<tr>
<td>Postage</td>
<td>12,533</td>
<td>14,583</td>
</tr>
<tr>
<td>Professional fees</td>
<td>7,546</td>
<td>8,803</td>
</tr>
<tr>
<td>Salaries and employee benefits</td>
<td>64,082</td>
<td>50,427</td>
</tr>
<tr>
<td>Stationary and supplies</td>
<td>13,129</td>
<td>11,171</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>372,161</strong></td>
<td><strong>306,738</strong></td>
</tr>
<tr>
<td><strong>Less: Expenses recovered (note 4)</strong></td>
<td><strong>13,782</strong></td>
<td><strong>13,050</strong></td>
</tr>
<tr>
<td><strong>Net Operating Expenses</strong></td>
<td><strong>$360,379</strong></td>
<td><strong>$293,688</strong></td>
</tr>
</tbody>
</table>
## Publications

### Schedule of Operations

**Year Ended November 30, 1990**

<table>
<thead>
<tr>
<th></th>
<th>1990</th>
<th>1989</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sales</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSPG Publications</td>
<td>$121,769</td>
<td>$151,451</td>
</tr>
<tr>
<td>Joint Publications</td>
<td>23,308</td>
<td>64,265</td>
</tr>
<tr>
<td>AAPG Publications</td>
<td>78,126</td>
<td>61,182</td>
</tr>
<tr>
<td><strong>Total Sales</strong></td>
<td>$223,223</td>
<td>$276,898</td>
</tr>
<tr>
<td><strong>Cost of Sales</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inventory, beginning of year</td>
<td>178,571</td>
<td>141,559</td>
</tr>
<tr>
<td>Publication costs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSPG Publications</td>
<td>125,170</td>
<td>84,116</td>
</tr>
<tr>
<td>Joint Publications</td>
<td>7,488</td>
<td>98,841</td>
</tr>
<tr>
<td>AAPG Publications</td>
<td>70,270</td>
<td>63,721</td>
</tr>
<tr>
<td><strong>Total Cost of Sales</strong></td>
<td>381,499</td>
<td>388,337</td>
</tr>
<tr>
<td><strong>Less: Inventory, end of year</strong></td>
<td>170,032</td>
<td>178,571</td>
</tr>
<tr>
<td><strong>Net Income</strong></td>
<td>$11,756</td>
<td>$67,132</td>
</tr>
</tbody>
</table>
## Schedule 3

**Canadian Society of Petroleum Geologists**

### Technical Programs

**Schedule of Operations**

**Year Ended November 30, 1990**

<table>
<thead>
<tr>
<th></th>
<th>1990</th>
<th>1989</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical luncheons</td>
<td>200,106</td>
<td>236,492</td>
</tr>
<tr>
<td>Continuing education</td>
<td>28,340</td>
<td>54,323</td>
</tr>
<tr>
<td>Honorary address</td>
<td>3,990</td>
<td>4,329</td>
</tr>
<tr>
<td>Field trips</td>
<td>245</td>
<td>2,407</td>
</tr>
<tr>
<td>1989 Core Conference</td>
<td>-</td>
<td>16,645</td>
</tr>
<tr>
<td>1989 Tidal Symposium</td>
<td>4,728</td>
<td>105,053</td>
</tr>
<tr>
<td></td>
<td>237,409</td>
<td>419,249</td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical luncheons</td>
<td>186,850</td>
<td>222,510</td>
</tr>
<tr>
<td>Continuing education</td>
<td>23,046</td>
<td>24,566</td>
</tr>
<tr>
<td>Honorary address</td>
<td>4,720</td>
<td>4,403</td>
</tr>
<tr>
<td>Visiting lecturers</td>
<td>6,207</td>
<td>-</td>
</tr>
<tr>
<td>1989 Core Conference</td>
<td>-</td>
<td>16,007</td>
</tr>
<tr>
<td>1989 Tidal Symposium</td>
<td>1,375</td>
<td>86,750</td>
</tr>
<tr>
<td>Other (recovered)</td>
<td>(298)</td>
<td>2,194</td>
</tr>
<tr>
<td></td>
<td>221,900</td>
<td>356,430</td>
</tr>
<tr>
<td><strong>Net Income</strong></td>
<td>$15,509</td>
<td>$62,819</td>
</tr>
</tbody>
</table>
## Schedule 4

**CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS**

**ANNUAL CONVENTION**

**SCHEDULE OF OPERATIONS**

**YEAR ENDED NOVEMBER 30, 1990**

<table>
<thead>
<tr>
<th></th>
<th>1990</th>
<th>1989</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fees</td>
<td>$174,550</td>
<td>$147,899</td>
</tr>
<tr>
<td>Exhibit booth rental</td>
<td>31,369</td>
<td>55,502</td>
</tr>
<tr>
<td>Field trips</td>
<td>59,315</td>
<td>21,215</td>
</tr>
<tr>
<td>Short courses</td>
<td>25,100</td>
<td>9,050</td>
</tr>
<tr>
<td>Donations</td>
<td>2,500</td>
<td>12,360</td>
</tr>
<tr>
<td>Other</td>
<td>38,609</td>
<td>20,795</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td><strong>$331,443</strong></td>
<td><strong>$266,831</strong></td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration and convention centre</td>
<td>37,046</td>
<td>17,650</td>
</tr>
<tr>
<td>Exhibits</td>
<td>17,869</td>
<td>20,849</td>
</tr>
<tr>
<td>Printing</td>
<td>35,461</td>
<td>27,926</td>
</tr>
<tr>
<td>Publicity</td>
<td>21,443</td>
<td>22,010</td>
</tr>
<tr>
<td>Field trips</td>
<td>54,687</td>
<td>15,354</td>
</tr>
<tr>
<td>Short courses</td>
<td>8,262</td>
<td>7,305</td>
</tr>
<tr>
<td>Social and chairman’s expenses</td>
<td>42,442</td>
<td>50,924</td>
</tr>
<tr>
<td>Other</td>
<td>1,803</td>
<td>3,694</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$219,013</strong></td>
<td><strong>$165,622</strong></td>
</tr>
<tr>
<td><strong>Net income</strong></td>
<td><strong>$112,430</strong></td>
<td><strong>$101,209</strong></td>
</tr>
</tbody>
</table>
Schedule 5

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

SOCIAL EVENTS

SCHEDULE OF OPERATIONS

YEAR ENDED NOVEMBER 30, 1990

<table>
<thead>
<tr>
<th></th>
<th>1990</th>
<th>1989</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual dinner and dance</td>
<td>$5,167</td>
<td>$5,873</td>
</tr>
<tr>
<td>Golf and squash tournaments</td>
<td>91,708</td>
<td>52,007</td>
</tr>
<tr>
<td>Past President's dinner</td>
<td>650</td>
<td>841</td>
</tr>
<tr>
<td>10K Road Race</td>
<td>4,335</td>
<td>—</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td>101,861</td>
<td>58,801</td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual dinner and dance</td>
<td>7,385</td>
<td>8,954</td>
</tr>
<tr>
<td>Golf and squash tournaments</td>
<td>91,104</td>
<td>49,722</td>
</tr>
<tr>
<td>Past President's dinner</td>
<td>1,576</td>
<td>1,585</td>
</tr>
<tr>
<td>10K Road Race</td>
<td>3,679</td>
<td>—</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>103,744</td>
<td>60,231</td>
</tr>
<tr>
<td><strong>Net loss</strong></td>
<td>$1,883</td>
<td>$1,430</td>
</tr>
</tbody>
</table>
### CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

**ATLAS FINANCE FUND**

**SCHEDULE OF OPERATIONS**

**YEAR ENDED NOVEMBER 30, 1990**

<table>
<thead>
<tr>
<th></th>
<th>1990</th>
<th>1989</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Donations</td>
<td>$127,805</td>
<td>$98,575</td>
</tr>
<tr>
<td>Interest</td>
<td>22,927</td>
<td>4,783</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>157,732</strong></td>
<td><strong>103,358</strong></td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td>500</td>
<td>300</td>
</tr>
<tr>
<td>Bank charges</td>
<td>109</td>
<td>24</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>609</strong></td>
<td><strong>324</strong></td>
</tr>
<tr>
<td><strong>Net income</strong></td>
<td><strong>157,123</strong></td>
<td><strong>103,034</strong></td>
</tr>
<tr>
<td><strong>Balance in fund, beginning of year</strong></td>
<td>203,034</td>
<td>-</td>
</tr>
<tr>
<td><strong>Transfer from operating surplus</strong></td>
<td>-</td>
<td><strong>100,000</strong></td>
</tr>
<tr>
<td><strong>Balance in fund, end of year</strong></td>
<td><strong>$360,157</strong></td>
<td><strong>$203,034</strong></td>
</tr>
</tbody>
</table>

*Collins Barrow*
AWARDS

MEDAL OF MERIT (Mark Oliver, Chairperson; John Cosgrove, Matt Duford, Jeff Reid, Dave Thomas, Wendy Winters, Brian Zaitlin)

The Medal of Merit is awarded annually for the best paper published on a subject related to the petroleum geology of Canada. Following the terms of reference for the committee, Canadian geological publications (including those of Federal and Provincial surveys and all geological societies), AAPG and SEPM publications, the GSA Bulletin and Science were reviewed for eligible papers. In addition, a CSPG member nominated two papers in the Journal of Sedimentary Petrology for consideration. Nine papers were selected for a short list and were reviewed in detail.


In addition, an honorable mention was awarded to R.J. Thompson for his publication Stratigraphy, Tectonic Evolution and Structural Analysis of the Halfway River Map Area (194B), Northern Rocky Mountains, British Columbia. Geological Survey of Canada. Memoir 425.

I wish to thank the committee members for their diligent work in reviewing eligible papers and in selecting the following papers.

R.J.W. DOUGLAS MEMORIAL MEDAL (Schatka R. da Toit, Chairperson; R.L. Thompson, Geological Survey of Canada, Vancouver; H. Williams, Memorial University, St. John's)

The R.J.W. Douglas Memorial Medal is awarded annually for outstanding contributions to regional tectonics, petroleum and structural geology and to the general understanding of sedimentary geology in Canada. The recipient of the 1990 award is Prof. Roger C. Walker, on the strength of the great contribution he has made to Canadian classic sedimentology over the past 24 years. He has published more than 100 papers in a variety of internationally recognized scientific journals, on topics covering the entire spectrum of depositional environments from submarine fans, channels and turbidites to coarse-grained fluvial deposits. Professor Walker has received many professional honours, including election as a fellow of the Royal Society of Canada and receipt of the Special Service Award of the Geological Association of Canada.

Professor Walker’s most recent efforts have been aimed at the Mesoprotozoic Sequence of the Western Canada Basin, analyzing the geology in terms of both absolute and relative sea level changes, particularly in the context of the ecotonism surrounding the formation of the basin and the Rockies.

Professor Walker has given freely of his time to support the efforts of many professional societies, and is a sought-after instructor of short courses to both academics and professionals in the resource industry. He has supervised more than 30 postgraduate students since joining McMaster University in 1966, and is currently supervising five PhD and three MSc candidates. He is a member of the AAPG, SEPM, GAC, CSPG and the Royal Society of Canada as well as at the International Association of Sedimentologists and the Canadian Association of University Teachers.

HONORARY MEMBERSHIP COMMITTEE (N.J. McMillan, Chairperson; Austin F. Embry, E.E. (Ned) Gilbert)

Honorary Membership in the CSPG is awarded by the Executive Committee on the recommendation of the Honorary Membership Committee. Nominations for Honorary Membership are received from the CSPG membership at large throughout the year.

Those selected by the committee and the CSPG Executive to be the newest Honorary Members are P.C. Brechet and R.L. Slavin, both Past Presidents of the Society, and Robert S. Dietz, a distinguished internationally renowned geologist.

The CSPG now has 41 Honorary Members, two of whom were charter members in 1927.

Ned Gilbert joined the committee in December, 1989. No other changes or additions are anticipated for 1990-91.

LINK AWARD COMMITTEE (Gerald Woodland, Chairperson; Bill Arnott, Geoff Burrows, Drew Cadgerhead, Brian Doherty, Adam Grosjean, Greg Jones, Sandy Laing, Mike Marshall, Richard Poirier, Bart Scott, Charles da Toit, Stan Williams)

The objective of the Link Award Committee, established in 1958, is to encourage a high level of oral presentation of technical papers given before the Society at the noon hour meetings. During 1990, eight papers qualified for evaluation.

The 1990 award winner is James M. Wood who presented the paper Traps Associated with Paleowaves and Inflows in Unconformity Bounded Sequences: Giustacchini Member, Southern Alberta at the luncheon meeting of March 28, 1990.

Again this year the committee recognized the high quality of most of the presentations.

CSPG GRADUATE STUDENT THESIS AWARDS COMMITTEE (Benoit Deschamp, Chairperson; Hugh Abercrombie, Kathy Auldhead, Peter Aukes, Andre Chow, Les Elluk, Stephen Greer, Dave Haines, Shelley Legger, Ross Maclean, Christian Viens)

The role of this committee is to evaluate which MSc and PhD theses make the most significant contribution to Canadian sedimentary geology each year. Two awards are given, one in each category. The awards consist of a framed certificate, in addition to $300 worth of Society publications and a one year membership in the CSPG. An advertising notice, written in both English and French, is sent every spring to all university departments as well as to the Geolog and the CSPG Reservoir. Theses are sent to the committee Chairperson by early
September, and then read by the committee members from mid-September to late November. The winning theses are determined by earliest December, and their authors are notified thereafter.

This year, eighteen MSc and seven PhD theses were submitted. The winner of the MSc category is Sahen M. Polechay (Queen's University) for a thesis entitled Stratigraphy, Sedimentology, and Diagenesis of the Middle Proterozoic Parry Bay and Kanuyak Formations, and Intervening Sub-Kanuyak Unconformity, Elu Basin, Northwest Territories. The winner of the PhD category is Dr. Anthony P. Hamblin (University of Ottawa) for a thesis entitled Sedimentology, Tectonic Control and Resource Potential of the Upper Devonian—Lower Carboniferous Horion Group, Cape Breton Island, Nova Scotia. An Honorable Mention was given to Dr. John Bloch (University of Calgary) for his PhD thesis entitled Diagenesis and Rock—Fluid Interaction of Cretaceous Harmon Member (Fort St. John Group) Mudstones, Alberta and British Columbia. A short notice, with photograph, acknowledging the achievements of these three people will appear in the Bulletin.

This CSPG committee is probably one of the most demanding of its members, as each of them has to spend long evening hours reading through all the thesis material. On the other hand, this hard work is rewarded in more than one way. Committee members agree that reading freshly produced theses provides a unique opportunity to learn new facets of geology, to keep up with new literature in their own field, and to get a feel for what is done (and where) in geological research in Canada: overall, a very positive experience.

CSPG UNDERGRADUATE STUDENT AWARDS COMMITTEE (Greg McTavish, Chairperson)

The Undergraduate Student Award is intended to encourage excellence in petroleum geology or related fields. The award is presented annually to one undergraduate student from each Canadian university. The student is chosen by his/her professors for outstanding performance in petroleum geology or the related fields of stratigraphy, sedimentology, paleontology or structural geology. The students receive a framed, engraved certificate and a one-year membership in the Society.

The 1989/90 Undergraduate Awards went to the following students:

Acadia: Nadine Carta McDow
Alberta: Gary F. Pauland
Brandon: Cynthia Dyck
British Columbia: Robert Mahood
Brock: Richard Gordon Roulhe
Calgary: Craig Wiebe
Carleton: Jean Hiech
Concordia: Dino Lombardi
Dalhousie: Roberta J. Hicks
Guelph: Stephen Fraser
Manitoba: Brent Wolfe

McMaster: Joseph I. Boyle
Memorial: Lorena Rebecca Brake
N.B., Fredericton: Edwin N.M. Vanderbrand
N.B., St. John's: Stephen James Bedell
Ottawa: Guillaume Couture
Quebec: Chantal Le Marois
Queen's: Brent D. Wignall
Regina: Dwayne Sparks
Saskatchewan: Gerard S. Zaluski
St. Francis Xavier: David Alexander Palmer
St. Mary's: David J. Pass
Waterloo: Paul J. Laubizer
Western Ontario: David A. Harper
Windsor: James Ceman

J.B. WEBB MEMORIAL TROPHY, J.A. DOWNING MEMORIAL TROPHY AND THE CSPG TROPHY (Keith Botrell, Chairperson)

The Canadian Society of Petroleum Geologists gives an award for the best student presentation (or poster session) at each of the three Inter-University Geological Conferences across Canada. The best student presentation at each conference is awarded a $100 Publication Award consisting of CSPG publications of his/her choice. The Society also grants the hosting university a $500 grant to help with costs associated with these conferences, and a trophy has been donated by the sponsoring firm for each conference. This trophy is engraved with the winner's name and is kept at the winning university for a year, until the next conference.

1. The John B. Webb Memorial Trophy was awarded to the best student paper presented at the Western Inter-University Geological Conference, hosted at the University of Calgary in January, 1990.

2. The best student presentation at this conference was by Regan Palsgrove, a graduate student at the University of British Columbia, who presented a paper entitled Spar development, sedimentology and gas quality of the Lower Skeena Group, Telkwa Coalfield, Central B.C.

3. The best student presentation at the Atlantic Inter-University Geological Conference (A.U.G.C.), hosted by the University of New Brunswick during October, 1990.

The best student presentation at this conference was by David A.S. Palmer from St. Francis Xavier University for his
talk entitled Crystallinochemical Characterization of White Micas from East Kempville Tin Deposit, Nova Scotia.

In October, 1991 this conference will be hosted by St. Mary’s University.

TRACKS AWARDS (Bill May, Chairperson; Ian Moffat, Catherine Chaplin)

Tracks awards are presented to members or friends of the CSGP who have made outstanding contributions to the Society through committee or other work.

The following people were selected for this year’s Tracks Awards:

Mika Rose – editor, Oil and Gas Pools of Canada
Brian Rickeis – editor, Western Canada Sedimentary Basin

SERVICE AWARDS (Bill May, Chairperson; Ian Moffat, Catherine Chaplin)

Service awards are given to members or friends of the CSGP who have contributed to the welfare of the Society through committee or other volunteer work. Service Awards were made to the following people in 1990:

M. Charette – Continuing Education Chairperson, 1988–90
G. Grierson – Technical Luncheon Committee Chairperson, 1990

i. Haliday – Link Award Committee Chairperson
B. Hayes – Book Review Editor, 1988–90
K. Hugo – Hydrogeology Committee, First Chairperson
M. Marchand – Geomathematics Committee, Chairperson
K. McCandlish – Coal Division Chairperson, 1988–90
G. Reisman – Tidal Deposits Core Workshop and Technical Program
S. Williams – Contributions to the Public Affairs Committee

VOLUNTEER AWARDS (Bill May, Chairperson)

Volunteer awards are given to members or friends who have demonstrated significant service to the Society. Volunteer awards were made to the following persons in 1990:

D. Arndt – Women’s Golf Chairperson
S. Bell – Associate Editor of the Bulletin
I. Bujak – Paleontology Division Chairperson
S. Creaney – Program Coordinator Geochemistry Workshop
R. Dalrymple – Associate Editor of the Bulletin
R. Edgar – Mon’s Golf Chairperson
P. Fermer – Structural Geology Division Chairperson
K. Gough – Women’s Golf Chairperson
B. Jones – Associate Editor of the Bulletin
F. Krane – Medal of Merit Chairperson
T. Marchant – Associate Editor of the Bulletin
I. McIlreath – International Liaison Committee Chairperson
M. Morrison – National Conference on Earth Science, 1990 Chairperson
M. Portugal – AAPG House of Delegates, Chairperson, 1988–90
T. Presber – Associate Editor of the Bulletin
C. Vigu – Associate Editor of the Bulletin
E. Wright – Stratigraphic Nomenclature Committee Chairperson
B. Zaitlin – Finance, Tidal Conference

PRESIDENT’S AWARD (Ed Kiwan, Chairperson)

The President’s Award is the highest service award presented to individuals for outstanding contributions to the Society. Three individuals have been selected to receive the award in 1990. Don Glass has served the Society over many years. During this time he has served as editor of dozens of Society publications. Most recently, he edited the Western Canada volume of the Lexicons of Canadian Stratigraphy series. With characteristic energy and organizational skill he edited the volume and had it in print in record time. Bill May, our 1990 Past President, has served the Society as a member of the Executive Committee for five terms. The secure financial condition that the Society now finds itself in is in no small measure due to his hard work and dedication. Finally, Rick Young put together a crack team and organized the truly outstanding 1990 Annual Convention, Basin Perspectives. The innovative approaches used in this convention, its technical and financial success are all a reflection of the work Rick and his committee put into this event.

On behalf of the membership, I thank and congratulate these three gentlemen for their outstanding contributions to Society affairs.

REGIONAL GRADUATE SCHOLARSHIPS (B. Doherty, Chairperson; Lorne Rossenthal, R. Thor)

The CSGP awards three regional scholarships each year. The scholarships are intended to promote graduate studies in the fields of geology and marine geoscience that have application to the petroleum industry.

The 1990 recipients are:

Atlantic Canada: David Johnson – Dalhousie (PhD)
Synthetic Foreland Basin Stratigraphy, Development and Comparison.

Central Canada: Nathalie Ross – Université Laval (PhD)
Architecture of Marine Sand Bars and Formation Processes.

Western Canada: Laverne Sasiuk – University of Regina (PhD)
Organic Petrology and Thermal Maturity of Paleozoic Hydrocarbon Source Rocks Saskatchewan.

Norcan/CSGP Undergraduate Scholarship

This award is given each year to a second to fourth year geological student enrolled in a Western Canadian university.

This year’s award was given to Kate Glazebrook, a fourth year student at the University of Alberta. Congratulations to all the recipients.

STANLEY SLIPPER GOLD MEDAL (Ashlon Embry, Chairperson; John Maher, Dave Organ, Ian McIlreath)
The Stanley Slipper Gold Medal is awarded to an explorationist who has made a significant contribution to petroleum exploration in Canada.

The recipient of the 1990 medal is Michael Hristevich, a well-known Calgary geologist who has been involved in exploration in western Canada for almost forty years. Mike spent most of his career with the Banff/Aquitaine/Canterra companies, and his leadership and vision were key factors in the discovery of Rainbow and Stuechel, which initiated entirely new petroleum fairways. Mike has also made major contributions to both CSPG and AAPG and has published a number of comprehensive geological papers. He is still very active and is undoubtedly a deserving recipient of the Stanley Slipper Gold Medal.

SCIENTIFIC PROGRAMS

VISITING LECTURER COMMITTEE (M.H. Chambers, Chairperson; R. Munday)

This committee is responsible for making arrangements for lecturers representing the CSPG to make their presentations to the Earth Science Departments of Canadian universities. This includes the Link Award tour and the Visiting Lecture tours.

Dr. Hans Michel (the 1988 Link Award recipient) presented his talk entitled When Carbonates Do Not Contain Oil. They Smell Bad—Musings about the Origin of Hydrogen Sulphide and the Relationship to Carbonate Diagenesis, Hydrocarbon Reservoirs, Salt Domes and Metal Sulphide Deposits to the universities of McMaster, Ottawa, McGill, Memorial, and Toronto in February, 1990.

Lynn Hedigerken presented her talk entitled Stratigraphic Evolution and its Control on Reservoir Facies of a Leda Reef Complex, Golden Spike, Alberta to the universities of Concordia, Montreal, Laval, Windsor, and Western Ontario in February, 1990.

George Grant presented his paper entitled Exploration for Oil and Gas in Canada Under the New World Oil Price Rules to the University of Regina in February, 1990 and the University of B.C. in November, 1990.

Dr. Norman Wardlaw presented his paper entitled How Rock and Reservoir Properties Determine Oil Recovery to the universities of Dalhousie, Acadia, St. Francis Xavier, New Brunswick, and Toronto in September, 1990.

Dr. Jim Allan (1989 Link Award recipient) presented his paper entitled Oil Generation and Migration in the Western Canada Basin to the universities of Waterloo, Western Ontario, Windsor, Laval, and Montreal in November, 1990.

Plans are in progress for Dr. Steve Craney to present his talk to the universities of Manitoba, Brandon, Regina, Saskatoon, and Alberta in February, 1991.

Ray Deere and Richard Baras resigned as of November 30, 1989. Many thanks to both for their many years of service.

VISITING PETROLEUM GEOLOGIST (Tako Koning, Chairperson; Brent Snyder)

The goal of the Visiting Petroleum Geologist (VPG) committee is to organize and implement a program whereby a Canadian petroleum geologist annually visits various Canadian universities and makes a presentation on a subject that exemplifies the application of petroleum geology for finding and developing oil and gas reserves. In addition, time is allocated after the presentation for the Visiting Petroleum Geologist to discuss the business side of the oil industry, such as industry expenditure levels, short- and long-term employment trends, and preferred educational backgrounds for geology graduates seeking employment in the oil industry. The purpose of the program is to provide an accurate and timely view of the industry to university students, geology professors and university administrators.

The VPG Program is a new CSPG program and the first tour was carried out in 1985 by Peter Moehan, Husky Oil, who presented Amaugigak—From Discovery to Development to six universities. During November 1990, Ken Drummond, Mobil Oil Canada Ltd., visited five universities and presented The Geology of Varennes, A Geopressured Gas Field, Offshore Nova Scotia. The universities were very appreciative of the williiness of a petroleum professional to visit their campuses and provide them with a petroleum geology presentation and an update on the industry. The committee extends a hand of appreciation to Ken Drummond for carrying out the 1990 VPG tour. Thanks also to Mobil Oil Canada Ltd. for covering all travel and accommodation expenses associated with the tour. Planning is underway for a VPG tour in the fall semester of 1991.

HONORARY ADDRESS (Tony Sacheli, Chairperson; Jeff McLean, Brent Cambell, Andy Hogg, Randy Makusmowich, Bob Kuchinski, Curtis Evert, Sandra Larson)

The mandate of the Honorary Address Committee is to annually feature a prominent member of the scientific community in an address to the general public. The talk, held each November at the Jubilee Auditorium, references a topical scientific issue or development of interest to the general public. This year’s talk Exploring Space: An Illustrated Tour of the Universe was given by Terence Dickinson, Canada’s foremost astronomy author.

The event, held on November 21st, was attended by over 1400 people and proved to be extremely entertaining and educational. Mr. Dickinson lead the audience through an exciting tour of the Universe using a vivid 60 minute slide presentation. His tour began in his own backyard and the audience was treated to amazing views of the Aurora Borealis, the Milky Way and our own Moon. The tour then began to escalate away from our home using eleven steps or jumps which eventually took the audience to the edge of the Universe — the beginning of time as we know it! Slides and discussion included Magellan’s visit to Venus and its remarkable photograph; Mars, a planet humans will visit in the next
CONTINUING EDUCATION COMMITTEE (Glen Squires, Chairperson; Virginia Trapnell, Treasurer; Graeme Bloy, David Work, Akheo Lincoln, Cheryl Wiggins, Maggie Kassende, Anne Savannah, Diane Leonard, Bob Millsplugh (AAPO), Marc Charest, Bob McAuley, Laurie Slezak)

The committee ran two courses, which were attended primarily by employed CSGP members. The courses listed are accompanied by the unused gross and net revenue figures.

The Development of Porosity in Carbonate Reservoirs, by James, Mabel, Walls, Jones, Davies & McDonald. (Attendance 77) Date 06/9-1/90 $38,850 / $7,705.25

Evaluation and Risk Analysis of Canadian Oil & Gas Properties, by Spruce Associates Limited. (Attendance 13) Date 10/1-4/90 $2,750 / $655

Total $27,650 / $10,460.25

Graeme Bloy and Mark Hadley did a superb job of organizing the carbonate course. Although the evaluation and risk analysis course was poorly attended it was given high marks by the participants. Because the committee feels that the course has high technical merit it will be offered again in May, and will include an extra day at no additional cost to members.

Other courses scheduled include two log analysis courses and a structural geology course. An Oil and Gas Business Forum is planned for March. A course by Andy Baillie, entitled Global Patterns of Petroleum Occurrence and Exploration Strategies, is expected in April. This will be co-sponsored by Mount Royal College.

More detailed information regarding the Committee’s course agenda can be found in the January Reservoir.

Marc Charest and Bob McAuley stepped down, as Chairperson and Treasurer respectively, in August. Laurie Slezak also retired in November. We intend to continue their tradition of running top quality courses at a discount to the membership and a profit to the Society.

TECHNICAL PROGRAM COMMITTEE (Guy Grierson/ Don Stachiw, Chairperson; Don Stachiw/Louis Girard, Ticket Sales Coordinator; Ianice MacDonald, Treasurer; Sandy Denton, Greg McTavish, Projectionist; Laurie Slezak, Speaker Thansers)

The Technical Program Committee for 1990 held a total of eighteen noon luncheon talks. A wide variety of topics were emphasized, ranging from presentations on Western Canadian stratigraphy, sedimentology, geochimistry and petroleum geology, to frontier and worldwide examples, and also some timely topics such as horizontal drilling, development geology and formation damage. One difference in the 1990 program was the inclusion of two talks discussing the business side of the oil and gas industry, now more than ever a concern of the society members. hearty congratulations to all of the speakers for a job well done, and many thanks for their main work effort, without which the noon luncheons could not exist.

Attendance at this year’s luncheons remained very strong, averaging 809. The Committee is grateful for the outstanding support of society members, and their companies.

Several changes have taken place in the Committee. Don Stachiw has taken over for Guy Grierson as Chairperson, while Louis Girard has replaced Don at Ticket Sales Coordinator. Greg McTavish has joined the Committee as Projectionist, replacing Bob McAuley.

The Technical Program Committee would like to acknowledge the assistance of the CSGP office in ticket sales and organization. Many thanks to the ticket sales volunteers and their companies, for it is through their efforts that the 1990 program has been successful. We would also like to acknowledge Chevron Canada Resources, who provides a great deal of logistical support for the committee.

The 1990 CSGP Noon Luncheons are listed below, followed by the attendance in parentheses:

Jan. 17 Digby J. McLaren, Royal Society of Canada: Geological and Biological Effects of Large Terrestrial Impacts. (881)


Feb. 13 Annual Business Meeting, Guest Speaker: Frank W. Dobb, Editor, Oilweek: An Outlook for the Canadian Oil and Gas Industry in the 1990’s. (825)

Williston Basin: Indications of Significant Undiscovered Potential. (874)

Mar 13
J. Sebastian Bell, Geological Survey of Canada: Present Day Stresses on the Scotian Shelf and Their Implications for Tertiary Deflation and Hydrocarbon Migration. (679)

Mar 28
James M. Wood, University of Calgary: Traps Associated with Paleovalleys and Interfluves in Unconformity Bounded Sequences: Glaucolithic Member, Southern Alberta. (966)

Apr 11

May 8

May 22
Bruce S. Hart, University of Western Ontario: More Surprises From the Cardium Formation: An Internal hiatus and Stacked Shoreface Sandstones. (813)

Jun 14
Frank Stoakes and Clarence Campbell, SCG Ltd., and Richard Cass, Arvec Consulting Ltd.: Stratigraphic Analysis of the Pinta Del Este Basin, Offshore Uruguay. (602)

Jun 28
Glenn S. Visser, OGC: Determining the Internal and External Geometry of Reservoirs. (743)

Sep 6
Rhea L. Kavonen, Chevron Canada Resources: Stratigraphy and Sedimentology of the Lower Cretaceous Mannville Group, Jenner-Suffield Area, Southeastern Alberta. (639)

Oct 4
Michael Enachescu, Husky Oil: Jeanne D'Arc and Southeastern Beaufort (Kugmallit Trough) Basins: A Tectonic and Structural Comparison. (605)

Oct 24

Nov 26

Dec 10
Lawrence Sloss, Northwestern University, Evanston, Illinois: Tectonics – The Primary Control on Sequence Stratigraphy: A Counterpointing View. (1000)

FIELD TRIP (ONE DAY) (Don Rogowski, Kevin Milner, co-Chairperson)

There were three trips planned for the 1990 season. The Calgary and Area, and Dinosaur Provincial Park trips went ahead as planned, but the proposed North Carolina trip was cancelled for the second year in a row due to lack of enrollment. A field trip was added late in the year for a group of Calgary school teachers, aiming to increase interest in the earth sciences in the school system.

The Calgary and area field trip (June 23) was led by Dr. Emlyn Koster, Director of the Royal Tyrrell Museum of Palaeontology, and Dr. Dennis Branum, Curator of Palynology. Twenty-four participants were provided with excellent examples and descriptions of the relationship between dinosaur palaeoecology and sedimentology of the Judith River and Bearpaw formations.

Twenty-six school teachers participated in a field trip (September 29) led by Dr. Len Hills of the University of Calgary. The trip provided the teachers with a look at erosional processes (glacial, fluvial, aerial, etc.) and their affect on the landscape, from Calgary to Peyto Lake. The trip was funded by the 50th Anniversary fund.

Possible field trips for the 1991 season include an examination of Judith River sediments in southeastern Alberta, the Burgess Shale deposits near Field, and the geology of the area around Moose Mountain. Please call Don Rogowski at Aquaterra Consultants if you have any suggestions or ideas for future field trips.

SEDIMENTOLOGY DISPLAY COMMITTEE (Michael Breiteneder, Chairperson; George Paszek, Logistics; Geoff Burrowes, Carbonate Core Display; John Corkery, Leslie Elinek, John Harper, Bruce Palmer, Ken Potma, Brian Pratt, Malcolm Simpson, Kevin Strongquist)

This committee has a mandate of continuing a technical liaison between post-secondary educational institutions and the CSPG, by means of creating technical displays for touring across the country.

The primary display being created is a stand-up display entitled Carbonate Buildups of Canada Through Time. This exhibit will compile existing data in an attempt to simplify and present the fauna and floral associations of carbonate buildups for each geological period. Mechanisms of reef growth will also be presented. Ideally, each region of Canada will be represented by means of case histories. At present, this project is undergoing editing and aesthetic review. Anticipated date of completion is late 1991.

The second display is the refurbishing of the CSPG-Gulf Canada Carbonate Core Display. All samples have been assembled and described, and are at present, hardware (i.e., presentation cases) for the display is being built. This exhibit should be ready for the 1991 Fall semester.

There is also an ongoing project to assemble various technical poster displays from symposia and conventions, and tour them on a rotating basis to post-secondary institutions and other interested parties.

These displays, as well as the existing Oil Sands of Alberta exhibit, are also available for CSPG functions.

STRATIGRAPHIC NOMENCLATURE (Ashcan Embry, Chairperson; Jim Barclay, Wayne Brideaux, Bob Gregg, Tim Marchant, Ed Niewinski, Tony Tankard, Ed Wright)
Two papers were reviewed by the committee in the past year and recommendations for improvement were given to the Bulletin Editor.

CONFERENCE, CONVENTIONS, SEMINARS, AND SYMPOSIA

1990 ANNUAL CONVENTION — BASIN PERSPECTIVES (Rick Young, General Chairperson; Grant Mossep, Peter Hay, Technical Program; Don Keith, Steve Harding, Poster Sessions; Alice Payne, Finance; Morley Brown, Logistics; Sue Rose, Registration; Berna Cheadle, Publicity; Allan Baxter, Printing; Bob Park, Hugh Hill, Commercial Exhibits; Alison Hepburn, Bill Cox, Entertainment; John Hogg, Field Trips; Al Jasik, Short Courses; Kathy Smith, Secretary)

The CSPG 1990 Annual Convention was held May 27-30, 1990 at the Calgary Convention Centre. It was one of the most successful stand-alone CSPG conventions ever held, as judged by attendance, financial returns, sponsorship levels, technical merit, icebreaker Party interest, number of innovations, value of draw prizes, and support of field trips and short courses. Total registration was 1964; icebreaker Party attendance was approximately 920.

Net profit for the Society was $123,000; draw prizes worth over $35,000 were given away. The total gross value of donated cash, services in kind, and draw prizes was just over $100,000. Most of the sponsorships and prizes were rounded up by Morley Brown, who, along with Bob Park, developed new standards for attracting and retaining sponsors.

The convention opened with an outstanding Icebreaker Party in the Skyline Hotel. The Monte Carlo Night encouraged everyone to gamble their free “funny money” at numerous gaming tables in order to bid for numerous prizes. One of the highlights was a door prize trip for two to Paris, France, via Canadian Airlines.

The convention theme, Basin Perspectives, was chosen to reflect the main feature of the technical program — the new Geological Atlas of the Western Canada Sedimentary Basin, planned for publication in 1991. A series of oral and poster sessions in the technical program showcased the findings of this vast compilation and generated considerable interest in it. In addition, the technical program featured sessions on the Peace River Arch Project, a joint Alberta–Federal government project on the geology and geophysics of this important feature. For the first time, abstracts of the over 125 papers presented were published in the Bulletin of Canadian Petroleum Geology prior to the convention.

Also of technical interest were seven new field trips, six short courses, a video theatre, a convention luncheon, and commercial exhibits.

The field trips ranged from northeastern British Columbia to southwestern Saskatchewan, and were designed to complement the Geological Atlas Project. The short courses attracted 185 individuals, who heard instructors seldom available in Calgary. The innovative video theatre showed AAPG videotapes on various subjects, and attracted 674 viewers.

The convention luncheon featured Prof. Bill Fyfe of the University of Western Ontario, who provided a highly entertaining and thought-provoking talk on The Global Environment and Sustainable Energy Resources.

The Exhibits Hall boasted 58 exhibitors and about half the poster papers, which were displayed during the three days of the convention.

A passport draw was set up to attract convention-goers to the booths of sponsors. Over 600 people participated in this innovative event by collecting the minimum 15 sponsor’s stamps. An Open House for the public to view the Exhibits Hall proved very successful. Despite a very rainy evening, an estimated 600-700 people, including children, enjoyed the chance to inspect a helicopter, a logging truck, and many computer displays.

The main reasons for the success of the convention were the imagination, talents, and dedication of the individuals on the Organizing Committee and various subcommittees. As chairperson, I am sincerely grateful to each one of them for their ideas and many hours of volunteer work.

1991 ANNUAL CONVENTION — OPPORTUNITIES FOR THE NINETIES (Wesley J. Waddell, Chairperson; Chris Le Gallais, Technical Program; Percy Strong and Markos Armanious, Poster Sessions; Jim Dixon, Short Courses; Brett Norris, Field Trips; Art Irwin, Finance; Marshall Kis, Printing; Greg Cave, Registration; Derek Gillespie and Curtis Evert, Commercial Exhibits; and Percy Strong, Entertainment)

The 1991 CSPG Convention will be held June 16–19 at the Calgary Convention Centre, focusing upon opportunities for success in the current decade. Insights into exploration in a mature basin, use of new technology, opportunities in the international arena, and the importance of finding costs versus reserve additions will be presented during three days of oral and poster sessions. An opening Plenary Session featuring several notable speakers is in the planning stages.

Jim Dixon has lined up six short courses, on topics new to the CSPG Convention, and Brett Norris has assembled an equal number of notable field trips.

Percy Strong is working diligently on the icebreaker, REUNION ’91, and the Convention Luncheon. The Convention Luncheon is scheduled for Monday, June 17, at the Convention Centre, with a prominent guest speaker. The icebreaker will set a precedent by occurring Monday, June 17, after the final technical presentation of the day. Set in the Commercial Exhibits area, this social gathering will feature alumni associations from various Canadian universities and colleges, in conjunction with a fine selection of food and beverages from Canada’s regions.

Derek Gillespie and Curtis Evert are working hard at putting together a showcase of technology, information and displays in
the Commercial Exhibits area of the Convention Centre. Arranged around the Poster Sessions, the Commercial Exhibits will feature sponsors and prizes in a format similar to last year’s. Based on the response to date, Opportunities for the Nineties could set a new standard of excellence.

The first circular and poster have alerted all prospective registrants to the exciting convention awaiting them June 16–19. The final circular will be distributed in May 1991, containing the schedule of oral presentations and social events.

The dedication and enthusiasm of the Organizing Committee is greatly appreciated and I thank them on behalf of the membership of the CSGP. Through their efforts, Opportunities for the Nineties is shaping up to be a resounding success.

1992 AAPG-CSGP ANNUAL CONVENTION – ENVIRONMENTS OF EXPLORATION (George Eynon, General Chairperson; Gerry Macey, Vice-Chairperson; Ashton Embry, Technical Program Coordinator; Brian Huccheon, SEPM Vice-Chairperson; Ned Gilbert, EMD Vice-Chairperson; Bill May, CSGP Finance; Vacant, DPA Vice-Chairperson)

The 1992 AAPG Annual Convention will be hosted by the CSGP and held June 21–24, 1992 in the various facilities at the Calgary Stampede Grounds and the Calgary Convention Centre.

AAPG Conventions bring a much larger North American and international oil and gas exploration audience to Calgary than is sometimes the case with our own CSGP conventions. The AAPG membership indicated in a recent poll that Calgary is second only to San Francisco as a desirable venue outside the core U.S. cities in which it normally operates. Even so, it is likely that we could expect to have an AAPG Convention here only once every 10 years. We need to make the best of it in 1992 for the CSGP, both from a technical and a financial point of view.

Ashton Embry has made significant strides in assembling a first class team to produce the technical program for the convention. The theme agreed upon, Environments of Exploration, will enable us to cover a wide variety of topic areas ranging from the geologically highly technical to the environmental, economic, political and commercial aspects of our business. The work of the technical program committee is already well underway, and we will have a list of session themes available for the Dallas AAPG meeting in April, 1991.

The Technical Program Committee is aiming at having a properly integrated program devoid of the fractious aspects of AAPG, SEPM, DPA, EMD and host society inter-group competition over session sponsorship. It is hoped that we will also have participation from the CWLS. Five concurrent sessions are planned, providing for 300 oral papers. Equal billing will be given to 250 poster papers. Short courses and field trips will be mounted both preceding and immediately following the three and a half days of the convention.

The major challenges facing the organizing committee will undoubtedly be financial. The AAPG office in Tulsa has, in recent years, done much of the administrative work on behalf of the host societies, but has charged them exorbitantly for their efforts. The CSGP uses its conventions to add to the financial well-being of the Society and cannot afford to mount such a large meeting without making a healthy profit. This aspect of the 1992 convention has yet to be resolved.

Meanwhile we are looking for additional volunteers for all aspects of the meeting, large and small. Please contact any of the organizing committees if you wish to participate in this “once-in-a-decade” venture.

PUBLISHER

50TH ANNIVERSARY TRUST FUND, BOARD OF TRUSTEES (Dieter Piir, Chairperson; Mike Cecile, Jim Kirker, Clay Riddell, Ken Havard, Bill May)

The 50th Anniversary Fund was established in 1977 in commemoration of half a century of service to the geological community in Alberta and Canada by the CSGP and its predecessor, the Alberta Society of Petroleum Geologists. The purpose of the fund was and is to support educational activities of the CSGP, particularly the Student Industry Field Trip. This year the fund also sponsored a field trip for school teachers at a cost of $959. It is anticipated that more funding of this nature will take place in the future.

From 1978 until 1987, the 50th Anniversary Fund was permitted by Revenue Canada to accumulate funds without income tax having to be paid or annual disbursements having to be made. This permission expired on November 30, 1987. Legislative amendments to the income tax act subsequent to our establishing the fund now indicate that charitable organizations no longer require permission to accumulate funds for purposes of establishing a permanent fund, as long as 80% of its received donations received in the previous year are spent. Exceptions include: capital received under a donor’s will, and gifts subject to the written direction of the donor that they be retained by the charity for at least 10 years. For this reason, donors are requested when making a donation to the trust fund that they stipulate in writing that the donations be left for at least a 10 year period. Contributions to the fund will be acknowledged periodically in the Reservoir.

The 50th Anniversary Fund was under the control of a senior investment manager from RBC Dominion Securities in Toronto. In March 1990, the board of Trustees elected to sell all its holdings in stocks and bonds and to invest the entire portfolio in T-bills. The administration of the fund was also transferred from Toronto to the Calgary office of RBC Dominion Securities. These moves have reduced the risk of investment as well as saving a one per cent administration fee. The Board of Trustees continues to meet with the RBC Dominion Securities Calgary manager to review performance and discuss investment strategy.
The performance and holdings of the fund from December 1, 1989 to November 30, 1990 are summarized below. A savings account is maintained by the 50th Anniversary Fund Sub-committee to handle transactions into or out of the fund. These funds are incorporated in the following statement. This account normally contains less than $100, except at the end of the fiscal year, when contributions are being received from members.

This year the CSPG contributed $22,811 so the fund just prior to the year end, accounting for the large amount of cash in hand.

<table>
<thead>
<tr>
<th>Performance</th>
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<tbody>
<tr>
<td>Balance on December 1, 1989</td>
<td>$374,362</td>
</tr>
<tr>
<td>Funds disbursed (SIPT and Field Trip)</td>
<td>$23,771</td>
</tr>
<tr>
<td>Funds contributed</td>
<td>$21,903</td>
</tr>
<tr>
<td>Fund Earnings and Capital Gain or Loss</td>
<td>$26,149</td>
</tr>
<tr>
<td>Balance on November 30, 1990</td>
<td>$513,384</td>
</tr>
<tr>
<td>Growth of Fund</td>
<td>6.3%</td>
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<table>
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<th>Holdings (November 30, 1990 Market Value:)</th>
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<tbody>
<tr>
<td>Cash</td>
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<tr>
<td>T-bills</td>
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<td>Total</td>
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The performance of the fund for the year ending November 30, 1990 reflects the down turn of the equity and bond markets. Fortunately, the major fall in equities that occurred subsequent to the sale of our portfolio was avoided. The fund will continue to be invested in one year T-bills, which should give returns of around 11%

Trustees, normally three past presidents and three other members of the Society, each serve for three years. Dieter Pfaff and Clay Kiddell will be retiring from the Board following the Annual meeting of the Society. Replacements will be Mike Hrasko and Ed Kloven by appointment of the Executive of the Society.

STUDENT INDUSTRY FIELD TRIP (Lorraine Velick, Chairperson; Andrew Langille, Treasurer; Cari Chamberlain, Tim Hart, Nama Jessee, Cathy Young, Brett Norris, Ghun Larson, Larry Strong, Greg Soile, Derek Byrne)

The committee would like to thank all field trip leaders, especially Bob McMechan, Peter Formor, and Brian Fischer from Shell Canada. We would also like to thank the University of Calgary, Department of Geology and Geophysics, for the use of facilities in the Earth Sciences Building.

The trip is designed to help familiarize students from across the nation with Petroleum Geology, as well as the geology of Western Canada. Thirty-two of the top students in the country are selected from universities offering degree programs in either geology or geological engineering. The 1990 trip was held from April 29 to May 12, 1990. Activities included a) five days of field trips throughout Alberta and British Columbia Foothills and Rocky Mountains, b) an exploration seminar involving a fictitious hydrocarbon play, which helped students to apply their knowledge in a semi-realistic atmosphere, c) presentations and short courses by industry experts, d) a rig tour, e) a Rocky Mountain flyover. All aspects of the trip were successful; unfortunately, for the first time ever the flyover was cancelled due to poor weather. The 1990 group of students were enthusiastic, highly intelligent, and very well behaved.

The committee is currently planning the 1991 trip, which will be held from April 26 to May 11. The schedule will be about the same. However, we are looking into a few new activities.

ARCHIVES AND HISTORY (J.W. Foster, Chairperson)

During the past year, the Archives and History Committee has continued to search through the Glenbow Archives for photographs relating to the history of exploration in Western Canada, and in particular those relevant to chronicling the Society's growth. An attempt is being made to obtain photographs of the twelve founding members, as well as other early members who have demonstrated their professionalism.

A suggestion was made to the Executive in August that the 1991 Society calendar be devoted to nostalgic photographs of personalities and scenes of the early phases of exploration in Western Canada. However, since the format and content of the 1991 calendar had already been resolved by the Calendar Committee, the suggestion was shelved.

Written material relating to the Society, as accumulated by past executive members, is being garnered on a continuing basis and is being forwarded to the Glenbow to supplement records already on file.

MANPOWER COMMITTEE (Chris Seudler, Chairperson; Ken Biggs, Paul Collins, Vincent Fera, Phil Hayba, Lloyd Kuzmyn, Mark Leman, Brian McBroom, Ed Navickas, Brad Wallace)

Since 1980, the Society has conducted an annual survey of companies employing petroleum geologists in Canada. The results reflect industry demand, and the statistical information is disseminated to the Society, industry, governments and universities.

The annual survey is distributed in February with results gathered through the spring. During the summer, data is compiled and graphed, and subsequently submitted in September for publication in the November Reservoir. In 1990, the committee sent additional questionnaires to selected oilfield service companies as a result of increased hiring of geologists to fill sales/technical roles.

Brian McBroom, having served on the committee for seven years, has decided to resign. The committee thanks Brian for the many hours he has contributed, and will be seeking another CSPG member to fill his position. Ed Mathison resigned earlier this year and Lloyd Kuzmyn assumed the vacant position.
TECHNICAL DIVISIONS

STRUCTURAL GEOLOGY DIVISION (Kevin G. Root, Chairperson)

The Structural Geology Division holds monthly meetings on Monday evenings during the spring and fall. We are indebted to the Institute of Sedimentary and Petroleum Geology for allowing us the continued use of their boardroom. The eight technical talks presented in 1990 were received by audiences of 20-30 enthusiastic individuals, and many stimulating discussions followed the presentations. Margot McMachen led a group of 13 to the Elbow Duplex in the Lethbridge River area on September 23. Mountain bikes were used to gain access to the back-country, and the combination of perfect weather, fine company, and spectacular geology resulted in a most enjoyable field trip.

The talks presented in 1990 are listed below:

Jan. 8 Thomas Kabuli (University of Calgary): The Dogtooth Duplex: A model for the structural evolution of the northern Purcell Mountains.


Mar. 5 Henk Halbensenma: Extension faulting and the collapse of the Peace River Arch.

Apr. 9 Kevin Coffin (ISPG): The crustal structure of the Beaufort Sea margin along the Tuktoyaktuk Peninsula.

May 7 Fred Cook, John Varek (University of Calgary): Lithoprobe seismic transect across southern British Columbia (Rocky Mountains to Pacific Ocean).

Oct. 1 Larry Lane (ISPG): Correlations of Lower Palaeozoic stratigraphy between the eastern Brooks Range and the Selwyn Basin, northern Canada.

Nov. 5 Andrew Zolale (Consultant): 3-D computer modeling of geological processes: Structural applications.

Dec. 3 Chris Harrison (ISPG): Salt-based foldbelt, Melville Island.

Larry Lane of the Institute of Sedimentary and Petroleum Geology assumes the position of Chairperson for the 1991 term. Volunteers interested in presenting talks or leading field trips should contact Larry.

GEOMATHEMATICS AND COMPUTER APPLICATIONS DIVISION (Richard Leighton, Chairperson: Roy Benten, Vice-Chairperson/COGS Liaison; Bill Carr, Program Co-Director; Alan Rayes, Program Co-Director; Bill Waters, Secretary/Treasurer)

Over the course of 1990 the Division participated in several events other than our usual monthly "brown bag" technical talks. At the annual ISPG convention, we organized the Operation Database session which provided an overview of the state of the art in geological database technology. Also, the Division together with Calgary COGS (Computer Oriented Geological Society) set up a booth featuring public domain geological software demonstrations and information. Just prior to the CSGP convention, the Division acted on the CSGP's behalf co-sponsoring a geostatistical symposium on Reservoir Characterization and Management, organized and very successfully run by Calgary COGS. The CSGP's seed money for this event was returned with a small profit. Our collaboration with COGS has proven mutually beneficial during 1990 and will surely do so in 1991.

The luncheon talks the Division organized and/or jointly held with COGS during the past year were:


Mar. 28 D. Swan (Gulf Canada Resources): Computer Aided Exploration in a Networked Environment.


May 30 B. Rostron (University of Alberta): Computing the Use of Micro, Mainframe and Supercomputers for the Simulation of Oil Migration and Entrapment.


INTERNATIONAL DIVISION (Al Jenik, Chairperson; Don Holmes, Vice-Chairperson; Tak Koning, Secretary)

The International Division holds monthly luncheon meetings on the petroleum geology of areas outside North America. Attendance at the talks in 1990 varied from 35 to 75 people. Talks were held in the Mobil Oil building, second floor auditorium. The International Division would like to thank Mobil for hosting these meetings, and for graciously providing refreshments. Also thanks to the Daily Oil Bulletin and Oilweek for their support in announcing our meetings.

Talks presented during 1990 are listed below:


Mar. 21 Peter Brown (Consultant): Tectono-Stratigraphy of the Middle Indus Basin, Pakistan.


Jun. 20 Mike Smith (Consultant): Geology of the Paris Basin.

Nov. 7  John Coegrove (Esso): Petroleum Exploration, Queensland, Australia.


COAL AND COALBED METHANE DIVISION (Margaret Bures, Chairperson; Keith McCandlish, Past Chairperson; Thomas Demchuk, Treasurer)

The energy industry seems to be in a process of transition. Major oil companies continue to close down their coal departments, while several others are starting up coalbed methane departments. In 1990, the scope of the Coal Geology Division expanded to include the field of coalbed methane, and as a result, our name now reflects that change. Over the past year, most of our efforts were concentrated on preparing a coalbed methane sampling seminar, which was held October 10-12 in Edmonton. An Introduction to Coal Sampling Techniques For the Petroleum Industry was held in conjunction with the Alberta Research Council and consisted of two days of talks and a workshop, followed by a field trip to the Highvale coal mine on the third day. The seminar was a success, attended by 11 speakers and 33 registrants, whose areas of expertise ranged from petroleum reservoir engineering, through oil, gas and coal exploration geology, to coal mining. As a result, it was an excellent opportunity to learn from an exchange of ideas across a variety of experience bases.

The Environmental Geology Division was invited to be a co-sponsor of our noontime talk held November 28. Richard Thibault (Fording Coal Ltd.) presented Environmental Accomplishments in Land Reclamation.

Coordinating our meetings with other organizations and CSPG divisions seemed to work well this year, and may become a continuing trend. Coal and Coalbed Methane Division activities next year will, it is hoped, include a field trip in the late spring, and technical talks covering coalsed methane as well as conventional coal industry topics. Coal mine reclamation work, the use of coal for remediation of petroleum spills on land, and technology advancements making coal a cleaner fuel, are a few suggested topics.

Because of greater environmental awareness, the use of fossil fuels, and in particular, coal, is coming under increased scrutiny. The challenge facing us is to promote a better understanding of fossil fuel issues as they relate to the environment. Earth science professionals and the general public must fully understand the economic benefits and appreciate the vast potential of all fossil fuels, in order to objectively examine the pros and cons of their use, as well as the alternatives. The Coal and Coalbed Methane Division will endeavour to continue providing information that will help promote that understanding.

Last but not least, I would like to extend sincere thanks to Manalta Coal Ltd. for covering our mailing costs, and to the following people for their hard work and support: Keith McCandlish (AMCL), Mike Dawson (ISPG), Greg Cave (ERCL), Lawrence Smith (Manalta), and Thomas Demchuk (University of Calgary).

RESERVOIR-DEVELOPMENT GEOLOGY DIVISION (Jim Dolph, Chairperson; Bob Gunn, Secretary; Paul Frydl, Program Coordinator)

The Reservoir-Development Geology Division was formed in August, 1987 with the intention of providing a forum for discussions on all facets of this subject. Five talks were presented from December 1, 1989 to November 30, 1990 as follows:

Nov. 7  Dave Eby (Union Pacific Resources): The Effect of a Twenty-eight Year Water Flood on the Upper Permian San Andreas Dolomite from Wesson Field, Permian Basin, Texas.


May 10  Ron Kreisa (Mobil Oil Canada): Contributions of Geologic Models to Waterflood Design and Management.

Nov. 22  Rick Davis and Graham Bloy (Husky Oil): Horizontal Well Applications in a Miscible Flooded Rainbow Reef.

Additional talks are planned for 1991. Our Division chaired a half day session on Reservoir Geology at the CSPG Convention Basin Perspectives May 27-30, 1990.

We will appoint a new Chairperson and a new Program Coordinator in 1991.

PALEONTOLOGY DIVISION (Thomas Demchuk, Chairperson; Bert G.T. van Holsten, Committee Member)

In 1990, the CSPG Paleo-Division continued with the tradition of noon-hour technical talks. We had a full slate of informative and entertaining presentations. In September, a field trip was taken to the world famous Walcott Quarry (Burgess Shale). Fifteen CSPG members enjoyed this trip, courtesy of Yoho National Park officials. This successful year was capped in December by the famous Paleo-Division Christmas Party held again at the fine facilities of the Rose and Crown Pub.

Speakers for the 1990 noon-hour technical talks included:


S. MacLeod (University of Calgary): Paleontology and Sedimentology of Upper Jurassic to Lower Cretaceous Strata, Mount Klappan Area, Northern Bowser Basin, B.C.

E. Burden (Memorial University of Newfoundland): Dinoflagellates and Debris Flows at the K-T Boundary: Are
Eclipse Trough (Bylot Island) Rocks Distinguishable from Other Canadian Arctic Localities?

C. Henderson (University of Calgary): Dynamic Conodont Biofacies in Upper Carboniferous and Permian Strata in the Sverdrup Basin, Canadian Arctic Archipelago.


For 1991, a number of noon-hour talks have already been scheduled. A field trip will likely be arranged for September to another spectacular locality, and the year just wouldn’t be the same if there wasn’t a Christmas Party. There will be no changes to the Committee Executive.

GEOCHEMISTRY DIVISION (Ian Allan, Chairperson; Steve Creaney, Program Director)

The Division held a number of noon-hour talks through the year. The objectives of the talks are to provide a forum for the informal exchange of ideas amongst the geochemical community, and to promote an enhanced awareness of geochemical contributions to both the petroleum business and the earth sciences. The program was as follows:

Dec. 4 Steve Creaney (Essco): A Technique for Source Rock Evaluation from Well Logs.

Jan. 16 Lloyd Snowdon (ISPG): The Ocean Drilling Program Leg 122 — a Geochemical Travelogue.


Apr. 10 Peter Nederlof (Shell): Application of Gasoline Range Hydrocarbons to Oil Typing in the Western Canada Sedimentary Basin.

May 9 Lloyd Snowdon (ISPG) and Martin Fowler (ISPG): Oil From Coal: A Discussion of Papers and Ideas Called from a Recent A.C.S. Symposium.

The Division intends to continue its noon-hour talk series next year, commencing with the first talk of the season scheduled for early December.

ENVIRONMENTAL GEOLOGY DIVISION (J.R. Century, John Womser, Gordon H. Jones, Paul Forcemi, Clint Tippet and Rory Hankel)

The Environmental Geology Division was organized in January, 1990 with the approval and encouragement of the 1989 President, Bill May. On November 15, 1990 the new Division Terms of Reference and Procedures were approved by the Executive Committee and President Ed Klovans, following months of debate and discussion among the members.

The most effective means of communicating the terms to the membership is to publish the approved Terms of Reference, with the complete text including the approved Procedures, in the CSPG Manual of Operations, available for inspection at the CSPG business office. A synopsis is given below.

Terms of Reference

The objectives of the Environmental Geology Division are to advance the knowledge of environmental geology and to facilitate the communication of this knowledge amongst the members of the CSPG. More specifically these will be:

1. To promote the study, evaluation and protection of the environment as it relates to geology and related earth sciences through technical presentations, convention sessions and educational activities.

2. To advise and make recommendations to the Executive Committee on matters concerning environmental geology as they pertain to:
   a. The educational initiatives of the Society.
   b. The contributions of the CSPG to the AAPG, Canadian Geoscience Council and other geological bodies.
   c. The input that the CSPG may have to provincial and federal regulatory bodies concerning professional certification regulations, such as educational requirements and standards of practice.

The following are the monthly technical meetings held during 1990:


Feb. 22 Crisis in the Atmosphere, U.S. National Academy of Science one hour video, moderator: Dr. Jim Aiken.

Mar. 29 Environmental Geology: Crisis and/or Opportunity, Panel discussion, moderator: Peter Fitzgerald Moore.

Apr. 26 The Earth Science Environmental Agenda, J.R. Century.

May 31 Canadian Oil Industry Initiatives in Environmental Protection: Roles for Geologists, Dr. Gordon H. Jones.

Jun. 21 Terms of Reference, Recommendations and Vote, John Womser, Chairperson ad hoc Committee.

Sep. 21 The K-T Boundary in Western Canada and Associated Paleoenvironments, Dr. Art Sweet.


Nov. 29 Environmental Accomplishments in Land Reclamation, Richard Thomas. Joint meeting with the Coal and Coalbed Methane Division.

The First Annual Christmas Luncheon was held on December 20 at the Calgary Municipal Building Civic Banquet Room, with speaker Dr. Walter Nussichuk, Director of the ISPG.
The following is a list of conferences, conventions and consultations attended and participated in by the Division:

Jan. 17/ Sigma Xi sponsored Lecture and Panel
Feb. 15/ Discussion on Global Change.
Apr. 22/ Earth Day Booth at Prince Island Park.
May 28-30/ AAPG Session, CSGP Convention, Calgary.
Jun. 4-7/ AAPG Environmental Geology and Hydrology Committee meetings, San Francisco.
Jun. 12-13/ Greef Plan Consultations, University of Calgary.
Jun. 19/ Alberta Geological Survey Update of Environmental Geology Division Activities, Edmonton.
Sep. 27/ SEPA Environmental Committee and Clean Air Strategy for Alberta, Calgary.
Nov. 5/ Swan Hills Waste Treatment Plant Expansion EIA Discussions, Edmonton.
Nov. 9/ International Union of Geological Sciences, Commission on Geoclesics and the Environment, discussions with Dr. Anthony Berger, Calgary.

SEDIMENTOLOGY DIVISION (Gary P. Smith, Chairperson; Peter G. Aukes, Albert A. Weggelin)

The Division continued its monthly lecture program as usual, courtesy of Norcen Energy, who provided the meeting room and projection facilities.

Only four meetings were held in 1990, due to an apparent lack of appropriate lectures. Average attendance was 41, down slightly from the previous year. The speakers and talks were as follows:

Nov. 8/ A.P. Hambin (SPG): Tectono-sedimentary Analysis of the Early Carboniferous Horton Group, Cape Breton Island.

Plans for 1991 include a full slate of luncheon speakers, including at least one debate, an informal field trip, and a core conference.

Rhea Karvonen (Chevron) will replace Alben Weggelin on the Executive in 1991.

PETROLOGY DIVISION (Jon S. Dudley, Chairperson)

The Petrology Division promotes informal exchange of ideas and information on diverse topics related to petrology.

Evening talks are held during the winter at the Shell Research Centre and have addressed such topics as artificial and natural diagenesis and their effect on reservoir quality and reservoir engineering. Interdivisional talks are encouraged in order to accommodate the overlap in interests between divisions.

The following are the talks presented during the winter of 1990:

May 24/ C. Connolly (U of A): Isotopic and Geochemical Composition of Paleozoic and Mesozoic Formation Fluid in the Alberta Basin (joint with the Hydrogeology Division).

Thank you to the ISPG and the "Dudes of Diagenesis" for their ongoing support.

HYDROGEOLOGY DIVISION (Kauash Rakhit, Chairperson; Ken J. Hude, Vice-Chairperson)

The Hydrogeology Division holds regular noontime meetings as a forum for the discussion of the current applications of hydrogeological, hydrochemical and related processes for the petroleum and environmental industries. In 1990 the venue for the meetings was moved from the ERB West Hall to the Mobil Oil auditorium. The hydrogeology division would like to extend its thanks to Mobil for hosting these meetings and providing refreshments.

Several excellent and well attended talks were given in 1990, and more are planned for the coming year.

We encourage and solicit all persons interested in hydrogeology to attend or present their work at our seminars.

Talks presented during 1990 are listed below:

Nov. 21/ Ken J. Hude (Esso): Using Hydrogeology to Predict Oil Migration Pathways and Accumulations — an Example From the Keg River Trall Field.

LIAISON COMMITTEES

NATIONAL CONFERENCE ON EARTH SCIENCE (Mike Morrison, Chairperson; Ron Kinney and Pat Lathrop, University of Alberta, Faculty of Extension; Ed Kilvait, CSSP Liaison; Benno Beuchamp, Jan Boon, Leslie Eniak, Jill Kirker, Fred Krause, Fred Trellope, Dave Smith, Peter Aukes, Rand Harrison, Bill May)

This annual conference is jointly sponsored by the CSSP and the Faculty of Extension of the University of Alberta. The
University of Alberta handles all advertising, registration, correspondence and logistics; in addition, they are fiscally responsible. The Advisory Committee, consisting of CSPG members, selects the conference topic and speakers to present the lectures.

As usual, the 1990 conference was held at the Banff Centre. The residential atmosphere at this locale facilitates discussions between the lecturers and participants at meals, and in the evenings.

The symposium was held during the week of September 16 to 21 and covered the topic Structural Control on Sedimentation in the Western Canada Basin. Fourteen speakers were involved including Bert Bailly, Larry Meckol, Gerard Bond, Glen Stockmal, Doug Cant, Dale Leckie, Daryl Wightman, Christian Vian, Gerald Ross, Shaun O’Connel, James Barclay, James Christopher, Art Slinnaby and Zeer Berger.

Seventy-five registrants (a "full house") participated and benefited from the excellent technical content and stimulating lectures. The success of the conference was reflected in the evaluation survey conducted at the conclusion of the conference.

The 1991 conference, to be chaired by Rand Harrison, is entitled Clastic Diagenesis in Hydrocarbon Reservoirs. There are 10 speakers scheduled.

AAPG HOUSE OF DELEGATES (John Hogg, Chairperson; Barry Boyce, Harold Freund, Guy Grierson, Peter Harrington, Syed Hasan, Bill Hackett, Martin Hewitt, Don Kiehl, Craig Lamb, Chris Le Gallais, Bruce Melnyke, John Ostrowski, Ben Robertson, Hassan Sabry)

The House of Delegates is the governing body of the American Association of Petroleum Geologists that acts on all legislative affairs within the scope of the Constitution and Bylaws of the Association.

As an affiliated society of the AAPG, the CSPG is entitled to one delegate on the House for every seventy joint CSPG-AAPG members. Delegates are elected annually by current members of the House, and serve for a three-year term. In 1990 the CSPG was entitled to 16 delegates.

During 1990, the group met on approximately a bi-monthly basis. The group submitted two nominations, which were accepted, for the one year position of Vice-President of AAPG for the 1991–1992 term. The candidates, Donald Axford and Paul Pommier, will be considered for election by all AAPG Active Members in early 1991, with the winner being Vice-President during the 1992 AAPG annual convention to be held in Calgary. Both John Hogg and Chris Le Gallais have volunteered their time to work on the Nominations and Elections, and Resolutions Standing Committees, respectively, of the House of Delegates for the 1990–1991 term.

The group is presently working on establishing closer links with other international delegates of the association in the hope that the AAPG will be made aware that the ever growing international membership, which is currently at 18% and growing, needs better representation at the house level. Also, nominations are being processed for 1992 AAPG Honours and Awards for CSPG members, for submission to the spring 1991 meeting of the Honours and Awards Committee.

INTERNATIONAL LIAISON COMMITTEE (Javed Iqbal, Chairperson)

Under its new Chairperson, the committee has been trying to rejuvenate itself during 1990. The last available annual report is for 1988. So far, the enthusiasm of the Chairperson is exceeded only by the apathy of our membership. A note soliciting suggestions etc., in the March issue of the Reservoir, failed to evoke even a single response.

Efforts continued to introduce and raise the global profile of the CSPG outside Canada. Letters were written to over 20 sister organizations worldwide, enclosing our Publications List and a Circular of the 1991 Annual Convention. As a result, one paper abstract for the convention has been received from the World Bank. The Malaysian society has shown interest in an exchange of publications and a circular of the regional South Asian conference in Pakistan has been received.

In Calgary, we worked closely with the International Division's monthly luncheon speaker program.

Plans for 1991 include continued efforts in the above areas, plus introduction of the Society to major international donor agencies, e.g., CIDA, World Bank, Regional Development Banks, etc. This would assist our individual and corporate members in securing timely information on international ventures and contracts funded by these organizations.

APEGGA STUDENT AFFAIRS LIAISON (Ron Buckley, Chairperson)

The main objective of the Student Liaison Committee is to enhance the professional development of university students enrolled in Engineering, Geology, or Geophysics with respect to their education and careers, through the interaction with APEGGA and technical societies, such as CSPE, CSEG, CSCHE, CWLS, CIM and EIC.

Three Liaison Committee meetings under the sponsorship of APEGGA were held at the University of Calgary, consisting of the participating technical societies, APEGGA staff, faculty representatives and student representatives from the Engineering Student Society, Engineering Club, Rundle Geology Group and Geophysics Student Society.

The purpose of these meetings is to update the student body, through their Society representatives, on the downtown activities of the technical societies. In return the technical societies are apprised of student conferences and activities.

Through these meetings the technical societies are able to announce activities such as conventions, conferences, scholarships, and technical luncheons. Some of the student societies are using these industry contacts to obtain speakers for their functions.

A program, begun in 1988, of providing closer access for geology and geophysics students to the CSPG monthly
noonime luncheon has continued during the past year. These
lunches were sponsored by industry by donating lunchon
tickets through the Student Affairs Liaison Committee. The
committee wishes to acknowledge the generous support of the
following companies for this sponsorship: Amoco Canada
Petroleum Company Ltd., Canadian Hunter Exploration Ltd.,
Canadian Occidental Petroleum Ltd., Can Tex Producing
Company Ltd., Geophysical Resources Ltd., Mobil Oil
Canada, Petro-Canada Inc., Shell Canada Ltd., Texaco Canada
Inc., Total Petroleum Canada Ltd., Unocal Canada Ltd. and
Westmin Resources Ltd.

All Canadian universities that offer a program in geology
have been made aware of sponsored lunches and technical
talks. Students of the University of Calgary are the main
beneficiaries. Tickets may be obtained from the Liaison
Committee Chairperson.

NORTH AMERICAN COMMISSION ON STRATIGRAPHIC NOMENCLATURE (D.G. Cook, and R.W. Yale, Commissioners)

The 45th Annual Meeting of the NACSN was held on
October 31, 1990 in Dallas, Texas. Newly appointed
commissioners Cook and Yale were in attendance. Topics of
discussion included: use of the term "supergroup"; proposed
amendment to the code regarding exclusive informal use of
morphological terms such as batholith, pluton, stock, dike, etc.;
alostratigraphic units; and the IUGS Stratigraphic Chart. Of
particular interest to CSPC members were alostratigraphic units
and the IUGS chart; these will be further elaborated here.

The NACSN continues to examine whether unconformily
bounded sequences can be adequately dealt with under the
present code. They are presently covered under the heading
"Alostratigraphic Units", but there is a perception that this
category was conceived primarily for Quaternary glaciologic
units, and is inadequate for other sequences. The
Alostratigraphic Committee, (Chairperson Don Baars, GSA;
Don Owen, AAPG; Don Hartin, GSA; and Leon Follmer,
Illinois Geological Survey) reported unanimous agreement that
sequence stratigraphic units should be addressed in a separate
article of the code. The committee will proceed with
recommending solutions to the terminology problems for
amending the code. Don Hartin is retiring from the
commission; Peter Vail (GSA) has been appointed as his
replacement on this committee.

The IUGS 1989 Global Stratigraphic Chart by J.W. Cowie
and M.G. Bassett had drawn a large number of comments from
North American stratigraphers regarding the treatment of
Proterozoic, Cenozoic, Ordovician, Silurian, Carboniferous,
and Permain units. These had been forwarded by NACSN to
Cowie and Bassett who had responded, in part to defend the
chart, and in part to indicate those parts of the chart that would
be improved as a consequence of NACSN submissions. At the
1990 meeting, commissioners were, in general, apprehensive
that the submissions from Canada and the USA would have an
impact on a future version of the chart, but were concerned
that North American views had not been adequately
represented in a supposed sampling of "world-wide" opinion.
A letter will be sent from NACSN to Cowie and Bassett
expressing both the appreciation and the concern.

Robert Jordan, Delaware Geological Survey (representing
AAPG), was elected chairperson of the commission for
1990-91. Lucy Edwards, (USGS) was elected secretary.

CANADIAN GEOSCIENCE COUNCIL (M.P. (Mike) Cecile
and Bill May)

The Canadian Geoscience Council is an organization of
geoscientists that is collectively trying to oversee geoscience
interests and affairs at a national level. From a draft mission
statement some of the objectives of the council have been
given as follows: to be a focal point for coordination and
communication of earth sciences in Canada and for Canadian
participation in international geoscientific programs; to
advise the general public on significant geoscience matters;
to disseminate geoscience information; to provide expert advice
to governments; to promote scientific awareness; to provide
a mechanism for accountability and reporting on geoscience
projects; to provide a forum for discussion, debate and liaison;
and to monitor the status and well-being of earth sciences in
Canada.

The President of the CCG is Don Mustard, the Vice-
President is Brian Norford, and Past President is Grant
Mossop. The CCG has thirteen member societies, including the
CSEG, CWL, CIGM, and GAC, which collectively span the
whole spectrum of the geosciences. The council meets three
times a year, and receives its funding from (in order of
importance) Energy, Mines and Resources, Provincial Mines
Departments, and member societies. The format of EMR
funding in the past consisted of sets of designated funds. This
year that was changed to a lump sum of about $100,000, with
the provision that the CCG would continue its participation in
certain programs, particularly international liaisons. Currently
the total provincial mines departments' contributions are only
10% of EMR's and the current executive is attempting to have
the provinces match the EMR contribution. If this is
accomplished it will allow the CCG to be more proactive in
areas such as public education and professional registration.

In the past year, the CCG Standing Committee on
Professional Registration made a great deal of progress in
finding representation and support across Canada. The main
purpose of the committee is to provide advocacy for some
uniformity of specification for registration and transferrability
from one province to the next, and from there possibly even
with the United States. An aggressive expansion program for
providing workshops for school teachers of Earth Sciences
(EDGEO Program) has been developed, and the CCG is
currently seeking a semi-retired geoscientist who is prepared
to travel the country and establish new programs. The CCG
also completed several major reports on critical reviews of
earth science research in the Geological Survey of Canada and
the British Columbia Geological Survey branch. The CCG
continues its strong international role with membership in the International Union of Geological Sciences, International Geological Correlation Program, and the Global Sedimentary Geological Program. The CGC is also a major advisor for three major geoscience programs, Lithoprobe, the Ocean Drilling Program and the Canadian Continental Drilling Program. And lastly the CGC continues to represent effectively the views and concerns of geoscientists to governments, and to attempt to ensure that geoscience gets a fair share of government research funds, and proper recognition for the contributions of geoscientists to society.

ATLANTIC GEO SCIENCE SOCIETY LIAISON (Ed Klovain, Chairperson)

Due to time conflicts, it was not possible for an interchange of executive to take place. The CSPG has donated $1500 toward the production of an AGS video project entitled \textit{The Oil and Gas Story}. This is in keeping with similar donations made in the past in support of other video projects. AGS has agreed to make a complimentary set of videos available to the CSPG office.

CSPG/GAC LIAISON COMMITTEE (Daryl M. Wightman, Chairperson)

The Liaison Committee is a committee of one that tries to ensure that the Canadian Society of Petroleum Geologists and the Geological Association of Canada take full advantage of their associated society status. Publications of sales booths were set up at each society’s annual meetings in 1990, and advertising inserts for the annual meetings were included in mailings of the \textit{Reservoir and Geoscience Canada}. Bill May, President of the CSPG, attended a GAC Council meeting in February, 1990, and Jim Franklin, President of the GAC, plans to attend a CSPG executive meeting in December, 1990.

WORLD PETROLEUM CONGRESS LIAISON (Mike Hriskevich, Chairperson)

The Annual Meeting of the Canadian Association of World Petroleum Congresses took place on June 8, 1990. A quorum was present.

Plans are well under way for the 13th Congress to be held in Buenos Aires during October 20-25, 1991. Jarvis Woodside is the official travel agency, and Canadian Airlines International the official airline. Details regarding travel arrangements and technical programs are available from either George Warne (297-8277) or Mike Hriskevich (233-8821).

The Executive Board has approved changing the interval between congresses to three years from four.

The Canadian participation in the technical program includes three session chairpersons, authorship of a review-forecast paper on upgrading and transportation of heavy oil and natural biumen, as well as presentation by 11 Canadians either at regular sessions or at poster sessions.

The CSPG will again be contributing to a Canadian book display. The Canadian Association will handle all transportation costs and the books will be donated to an Argentian University at the end of the congress.

There will be no change in the annual dues structure for 1991. The dues for CSPG’s associate membership is $50.00.

The subcommittee looking into the possibility of hosting a future congress in Canada presented their report recommending that the Canadian Association formally present Canada’s name for the congress scheduled for 1997 at the forthcoming meeting in Buenos Aires, and that Calgary be the host city. The motion was presented and approved unanimously.

PUBLIC AFFAIRS COMMITTEE (Kathy (Scales) Lapointe, Chairperson; Bill Baskett, Scott Gardner, Andrew Langille, Randy Maksmowski, Mark McMurray, Bob Moffat, John Peirce, Paul Price, Tony Sacheli, Stan Williams)

The role of the Public Affairs Committee is to provide technical assistance to the public. In 1990 this role was fulfilled by supporting the Canada-wide Science Fair and the Petroleum Resources Communication Foundation (PRCF), and by providing speakers and materials to functions in the Calgary area.

The Canada-wide Science Fair was held in Windsor, Ontario in May. Dr. Frank Simpson of the University of Windsor volunteered to both judge and present the CSPG awards. The CSPG sponsors two awards in the Physical Sciences division (those that best represent a petroleum or energy-related theme). The projects of this year’s winners were “You see cow paddies, I see energy” by P. Chaudhari, and “Tect Pump Clothes Dryer” by J. Costby.

The PRCF is in the process of re-writing the third edition of \textit{Our Petroleum Challenge}. As well, quarterly gasoline pump price surveys were published, along with a background to gasoline pricing released in October (which attempts to explain Canadian pricing policies in light of the recent price increases).

Requests for speakers from Calgary-area school teachers were minimal during 1990, despite an article in the Alberta Teachers Association Newsletter outlining the availability of speakers. The names of the committee members have been put on a list of speakers being distributed to all Calgary public school science teachers by the Board’s Science Advisor; this should result in more requests. Similar arrangements with the Separate School Board are being sought.

During National Science and Technology Week in October the Committee manned a booth at the Planetarium, as part of Calgary’s effort to promote this event. As well, a 10 ft. x 4 ft. banner (with the CSPG name and logo) was purchased for our display booth, and for use by other CSPG committees.

Stan Williams undertook the initiative of writing articles for the Alberta Science Centre’s Network magazine, in which he described and explained such geological phenomena as mudpots, and the extinction of dinosaurs.

The committee is indebted to the volunteers who continue to give of their time and experience and to their corporations for continued support.
ALBERTA GEOLOGICAL SURVEY LIAISON COMMITTEE (Ed Klovain, Chairperson)

The mandate of this committee is to make recommendations to AGS with respect to its business plans and financial budget for the forthcoming year. Previous recommendations had urged that the government provide some measure of core funding to AGS, rather than AGS relying on financial support from services rendered to other departments and industry. As a result, the Alberta Department of Energy has agreed to contribute to the funding of AGS and co-manage the program. Subscriptions to a coalbed methane project successfully raised sufficient funds to allow this study to proceed. Specific sections within AGS include petroleum geology and basin analysis; Oil Sands Geology; Coal Geology; Industrial and Metallic Minerals; related activities in Outreach, Geoscience Information Systems, and Special Projects. Dr. Rand Harrison was appointed head of the survey, effective September 1, 1990.

NATIONAL LIAISON COMMITTEE (Mario Coiglio, Waterloo, Chairperson; Derek K. Armstrong, Toronto; Paul A. Batsom, Halifax; Pier L. Binda, Regina; Nancy Chow, Winnipeg; John D. Harper, St. John's; Hugh Hendry, Saskatoon; Michel Malo, Sainte-Foy; Eric Mountjoy, Moose Jaw; W. (Ted) R. Donner, Vancouver; S. George Pemberton, Edmonton; Jim Noble, Fredericton; Ray Tule, Ottawa)

The committee met in Vancouver at the joint annual meeting of GAC/MAC on May 16. A summary of the December 1989 meeting in Calgary was reported in the 1990 CSGP Report of Activities, and the results of the half-day forum, The Future of Geoscience in Canada, attended by representatives from industry, government and academia, were published in the October 1990 Reservoir.

The NLC has continued to maintain an active liaison role, not only with universities across the country, but also with institutions such as the Ontario Petroleum Institute, the Royal Ontario Museum, and the Basin Analysis Section of the Atlantic Geoscience Centre and Bedford Institute of Oceanography. NLC regional activity reports from Nova Scotia, Southwestern Ontario (Ontario Petroleum Institute), and Eastern Ontario (Central Canada Geological Conference) were published during 1990 in the Reservoir. The committee has fallen short of its target of one report every second issue of the Reservoir, but hopes to rectify this situation with a new round of commitments from NLC representatives for the upcoming year. The CSPG's Student Industry Field Trip, Link Speakers and Visiting Petroleum Geologist program continue to be well received by the academic community. The committee was unanimous in noting the importance of these programs in enhancing CSPG's national character. As in the previous year, much of our effort this past year has focused on discussion of low undergraduate earth science enrolment and the necessity of attracting more top quality applicants into graduate studies.

The NLC extends its appreciation to all members of the geoscience community who have assisted in our liaison role this past year. We would also like to thank the CSPG executive for their support and participation in NLC activities.

PUBLICATIONS

PUBLICATION SALES (John Ostrom, Chairperson; Peter Guyan, Treasurer; Eric Albrechtsen, Andrew Arthur, Paul English, Peter Harrington, Bill Hackett, John Hogg, Stephen Johnston, Rhea Karvanen, Jack McMullan)

The Publication Sales Committee is responsible for the promotion and sales of Society publications.

CSPG publication sales totalled $129,000 in 1990. This excellent result, although lower than last year's exceptional figure, is still 20% higher than in 1988. An increase of 15% in sales of AAPG publications resulted in sales figures reaching $32,000.

The CSPG published several new books in 1990: Basin Analysis - The Western Canada Sedimentary Basin; Oil and Gas Pools of Canada, volume 1; Lexicon of Western Canada: The Development of Porosity in Carbonate Reservoirs; Landforms of Alberta; and the Geological Calendar. Sales of these publications combined with other recent publications have sustained the current high level of CSPG book revenue.

The committee attended five convention meetings in 1990, three in Canada and two in the United States. Sales at the GSA, GAC and both AAPG meetings met expectations. Sales at the CSPG annual meeting were up by 60% with a total of $26,000.

Other duties of the committee, such as advertising, distribution of review copies, copyright permissions and liaison with the National Library have continued efficiently. A compilation of all book sale patterns and a new market survey will be completed in 1991.

Two new publications are expected in 1991: CSPG Memoir 16, Classic Tidal Sedimentology, and the Geological Atlas of the Western Canada Sedimentary Basin. These publications have a huge impact on sales in 1991. The possibility of exceeding 1989's record combined sales of $240,000 cannot be dismissed. With regard to AAPG publications, we are aiming to increase sales to $60,000.

The committee has a number of ongoing projects, which we anticipate coming to fruition in 1991: establishment of a mutual book selling agreement with the Geological Society of London; final discussions with the SEPM about establishing a CSPG outlet for their publications; and streamlining of our current AAPG book selling agreement.

The Publication Sales Committee would like to thank all the volunteers who gave their time and skills, and individual corporations, particularly Shell Canada, Petro-Canada, Amoco Canada, Unocal Canada and BP, for supporting the efforts of their respective volunteers.
PALEONTOGRAPHICA CANADIANA (Robert J. Elias, Chairperson; Alfred C. Lenz, Vice-Chairperson; David H. McNéil, Secretary; Tim R. Marchand and Ross A. McLean, Business Managers; Peter H. von Biber, Palaeontographica Canadaiana Editor; W.R.A. Baragar, GAC Editor; J.D. (Hans) Speelman, CSPG Editor)

The CSPG and the Geological Association of Canada are the sponsoring societies of a palaeontological monograph series that is dominantly systematic in content and pertinent to Canada. Most of the responsibility for publication of these monographs has been delegated to a Joint Committee on Palaeontological Monographs, responsible to the two societies. The name of the monograph series is Palaeontographica Canadiana. The following volume was published during 1990:


The following publications are planned for 1991:


OIL AND GAS POOLS OF CANADA (M.L. Rose, Chairperson; B. Hayes, M. Weber, P. Bolton)

The initial version of the new Oil and Gas Pools of Canada publication was released on schedule in May, 1990, at the *Basis Perspectives 1990 CSPG Annual Convention.* Volume one consists of over 25 pool reviews and is published in an updatable binder format, so that new pool reviewers can be easily inserted. Once again I thank all of the authors, companies and committee members involved. The current plan is to have the first update of approximately 10 to 15 pool studies completed by the second quarter of 1991. This update package will complete the first volume (or binder) and will be released along with a final index and dividers to “finish” the product. Future pool reviews will concentrate on more recent, larger volume discoveries, where information is available. The Oil and Gas Pools Committee consists of an ad hoc committee of geologists who are responsible for reviewing and editing the studies in the Oil and Gas Pools Committee consists of essentially individual companies who facilitate the release of data and completion of studies ordered by their companies. Any individual wishing to author a pool study or join the committee is encouraged to contact the chairperson.

RESERVOIR (Lisa-Hanx Kirkland, Chairperson/Editor; Mark Oliver, Liaison; Peter Harrington, Advertising/Sales Committee Chairperson)

Volume 17 of the Reservoir had 11 issues, one a month (except for a combined July/August issue). Increased submissions to the Reservoir were reflected in an average length of 28 pages (compared with an average of 24 pages in 1989).

The Reservoir Committee is cognizant that one of the most important aspects of the Reservoir is its timeliness. While it appears that a submission deadline six weeks prior to the relevant month is necessary given the current facilities, the Committee will continue to explore possible means of shortening this period.

Most issues of the Reservoir were received by CSPG members prior to the beginning of the relevant month. However, production problems, some of which have been recurrent over a number of years, did result in the late receipt of some issues. Most notably, a problem at the distributor resulted in the October Reservoir being mailed out in the second week of October (and many phone calls of complaint being received by the editor). As a result, the steps in production are being reviewed to identify where time can be saved. Progress of the issues while at the printer and distributor will be more closely monitored.

MEMBERSHIP DIRECTORY (Peter W. Hay, Chairperson; Peter Harrington)

An updated Membership Directory, listing CSPG members alphabetically, by company affiliation and by geographic location, is planned for Spring 1991. Advertising will again be used to defray printing costs, and a limited number of copies of this directory will be printed and then sold to CSPG members. Members are reminded to update their company affiliation if they have changed employers since the last directory was released in September, 1988. A new feature of this Membership Directory will be a geological “Yellow Pages”, listing consultants, logging companies, geophysical companies, mapping and drafting services, hydrodynamics and fluid analyses, and other service companies.

INDEX OF PUBLICATIONS (Bruce G. McIntyre, Chairperson; P.W. Hay, G.T. Stahl)

The committee continues to index all papers in current CSPG bulletins, memoirs, field trip guidebooks and special publications, by selecting keywords and reference terms under which these papers might be found. All 1990 Bulletin papers, sorted by subject, author and NTS area were printed in the December 1990 Bulletin.

The CSPG indexed data continues to be input to GEOSCAN, the Canada-wide index of geological data and to GEDONDAl, Alberta’s index of geological data. Access to either GEOSCAN or GEDONDAl may be obtained through the libraries of most major oil companies or through the Gallagher Library at the University of Calgary.

MSC AND PHD THESIS INDEX (L.V. Hills, Chairperson; Dr. S.M. Barr, Acadia; J. Powell, U. of A; Farisal Pirzai, U. of B.C; Dr. J. Tersmae, Brock; M. More, Carleton; D. Crouse, Dalhousie; Dr. G. Valiquette, ECOLE Polytechnique; Dr. F.A. Bourque, Lisez Brissot, Laval; E.B. Ross, Manitoba; S.M. Jackson, McGill; J. Allen, McMaster; D. Tabor, Memorial; L.
Boisvenueault, Montreal; J.E. Ley, New Brunswick; Dr. D.M. Kent, Regina; D. Jones, Saskatchewan; I. Dombia, Toronto; Dr. J. Legault, Waterloo; Dr. A. Lenz, W. Ontario; V. Sitar, Windsor)

An index of postgraduate theses from Canadian Universities in 1989 has been completed and will be submitted.

Theses for 1990 are currently being indexed.

CSPG BLUE BOOK (Bill May, Chairperson)

The Blue Book is a comprehensive list of Society volunteers and their contributions to, and activities for, the Society to the end of 1984. This year a comprehensive list has been generated for the years 1985–1989. It still needs to be checked and verified before being merged with the existing list. A new updated comprehensive list should be available next year.

MANUAL OF OPERATIONS (Bill May, Chairperson)

The Executive Committee, at the beginning of each year, sends each committee, division or liaison its Terms of Reference, with a request to review the terms and to submit revisions to the Executive for approval. Four committees submitted changes, and one new division was created. The awards section was totally rewritten and the Terms of Reference for the Volunteer Award was added. These changes, including last year’s changes, were distributed as updates to the Manual of Operations by the office staff on August 27, 1990. Updates to the award recipient lists were also distributed.

GEOLOGICAL ATLAS OF THE WESTERN CANADA SEDIMENTARY BASIN (Grant Mossop, Chairperson: Andy Baillie, Perry Glaister, Al Blackie, Don Kent, Dave Smith)

As indicated in last year’s report, the 1990 CSPG Basin Perspectives Convention was anticipated as a premier milestone in the Atlas project. The high expectations were fully realized at the convention. One third of the technical program was devoted to the Atlas: 34 oral presentations, spanning three days; and 35 poster displays, manned for the full duration of the convention. Atlas authors and contributors acknowledged that: a) the reality of a presentation deadline did indeed spur the timely finalization of Atlas cross-sections, figures and maps; and b) access to a broad spectrum of constructive criticism from peers, especially during discussions at the poster displays, will indeed lead to significant improvements in the final product.

At the conclusion of the convention, the majority of the displayed material was transferred to Edmonton for cataloguing, photo-reduction and initial drafting. Through the remainder of the year, significant effort was devoted to laying the groundwork for production of the printed Atlas volume — scientific review, copy editing, design, layout and proofing.

All of the Atlas structure/paleogeography, isopach and paleoecography maps were prepared for presentation at the CSPG convention. During the remainder of the year, software systems were developed to drive the last of the map suites — namely, the lithology maps, based on Canstrat Lithodata files.

With the development component of Atlas computing concluded in the fall of 1990, most of 1991 will be devoted to preparation for the release of the Atlas data base and related software systems.

The Atlas project is deeply indebted to hosts of individuals and institutions — authors and contributors, employers, project sponsors, data donors, publication patrons. It is with great anticipation that all parties look forward to production of the printed Atlas volume in 1991.

PUBLICATIONS COMMITTEE AND PUBLICATIONS REVIEW BOARD (H. Speelman, Chairperson; J. Hutcheon, J. Macdonald, W. May, J. Osborn)

The Publications Committee coordinates all matters relating to publications of the Society. It consists of the Senior Managing Editor (Chairperson), the Publications Review Board and the Bulletin Editor. The Senior Managing Editor is responsible for day-to-day co-ordination of publication matters. He reports directly to the Executive and is an ex-officio member of the Executive. The Publications Review Board has the task of assessing the merits of new publication proposals.

It consists of the Senior Managing Editor (Chairperson), the CSPG Past President, the CSPG Vice-President, the Chairperson of the Publications Sales Committee and one member-at-large.

In early 1990 the CSPG published the textbook Western Canada Sedimentary Basin — A Case History. This was followed by the release of volume 4, Western Canada, of the Lexicons of Canadian Stratigraphy series. The first volume of the Oil and Gas Pools of Canada series also was published this year. In addition, the CSPG Short Course Notes The Development of Porosity in Carbonate Reservoirs were published and made available for sale. Field guidebooks from the conference Sequences, Stratigraphy and Sedimentology: Surface and Subsurface were reprinted due to continuing demand.

In late 1990, the CSPG published a pictorial book on geomorphology entitled Land Forms of Alberta. Scheduled for release later in 1991 is the Geological Atlas of the Western Canada Sedimentary Basin, co-sponsored by the CSPG, the Alberta Geological Survey, Alberta Energy, and the Geological Survey of Canada. The CSPG also plans to publish in the coming year Memoir 15, Clastic Tidal Sedimentology, the proceedings from the Second International Symposium on Clastic Tidal Sediments, which was held in August 1989 in Calgary and was co-sponsored by the CSPG and SEPM. In addition, we hope to release volume 2 of the Oil and Gas Pools of Canada series during 1991. Work on further volumes of the Lexicons of Canadian Stratigraphy series is ongoing. The Society publishes two periodicals, the quarterly journal Bulletin of Canadian Petroleum Geology and the monthly newsletter Reservoir. It also co-sponsors with GAC the Palaeontographica Canadana series.

The Publications Review Board reviewed four new publication proposals during 1990. Three of these were
recommended for publication and an amended proposal was requested for the remaining one. In addition four proposals for reprinting publications were reviewed. A recommendation to proceed on three of these was presented for executive approval. All recommendations by the Publications Review Board were accepted by the Executive, except for one proposal to reprint a publication.

**WESTERN CANADA SEDIMENTARY BASIN (Brian Ricketts, Editor; Jim Aitken, Jim Barclay, Doug Cant, Dave Gibson, Fran Haidl, Frances Reis, Charles Henderson, Dale Leckie, Margo McMechan, Jim Monger, Peter Moore, Terry Poulton, Kirk Osadetz, Barry Richards, Gerry Ross, Grant Smith, Randell Stephenson, Bob Thompson, contributing authors)**

Western Canada Sedimentary Basin: A Case History appeared on the CSPG's bookshelves in January this year. The book is the culmination of about three years of dedicated work by several authors in 13 chapters. It is a 320 page account of the miogeocline and foreland basin, between the Canada/U.S.A. border and latitude 60°N, in terms of its stratigraphy, structure, and geophysical constraints. Presented here are the fundamentals of dynamic stratigraphy in basin analysis, reflected in recurring themes such as sequences and cycles of transgression/regression, and the relationship among tectonics, subsidence, sedimentation, and palaeogeography. This general account of the basin will be a useful companion to the future Geological Atlas and DNAG volumes.

The book is intended both for students and professionals. It is printed in soft-cover with a sewn binding.

**HISTORY OF THE CSPG (Colin Yea, Editor)**

In January, 1990, the Executive rejected a recommendation to hire historian David Finch to research, write and publish a history of the Society. The Executive, however, directed the editor to consider publishing the history as a paper to be included in the Bulletin. The basis of this paper would be the draft manuscript prepared eight years ago, updated to 1990. The Executive has also encouraged the editor to contact CSPG members who have retired from industry as resource persons. Recruitment is proceeding. Publication of the paper is hoped to be within two years.


The number of manuscripts submitted in 1990 will probably be about 40, slightly higher than in 1988 (31) and in 1989 (36). In 1990 the Bulletin will have published about 390 pages of papers, Notes, Book Reviews and Discussion/Reply articles, in regular Bulletin format. For the first time the program and abstracts for the annual meeting appeared in the March issue of the Bulletin, accounting for about 30 pages, and the annual report of activities accounted for another 37 pages. The special volume (38A) on the Peace River Arch, which will appear in early 1991, contains approximately 280 pages. This brings the total of regular and special issue pages for 1990 to 784 pages, as opposed to 478 pages for 1989.

The first special issue of the Bulletin on the geology of the Peace River Arch is a joint effort by the Geological Survey of Canada (GSC) and the Alberta Geological Survey. The editors for this special issue, Sebastian Bell and Shaun O'Connell, have handled the entire review and selection process. Although not all the papers are in the hands of the printer as of October, I estimate that the final issue will be approximately 225 to 250 pages. This issue will appear as a special volume for 1990, and will be received by all members and subscribers as part of their membership dues. The cost of the additional pages has been partly absorbed by the GSC, but the unexpected size of the special issue will mean that the number of pages published in 1991 will be reduced somewhat. There is also the prospect that the few papers on the Peace River Arch that did not make the deadline for the special issue will be published in June as a supplement. The Bulletin hopes to encourage more special issues if the response to the Peace River issue is favourable.

The Bulletin runs primarily on the enthusiasm of volunteers, which means that manuscripts may take longer to be reviewed than is acceptable, but authors may take heart. In the fall of 1990, the Executive hired a part time (6 hours/week) assistant for the Editor, Linda St. Pierre, who has taken over the job of tracking the time for reviews and a myriad of other tasks that were not possible before, such as the collection of page charges. In 1990 Linda was responsible for the collection of over $3000 in page charges. In addition she is helping to prepare an application to the Natural Sciences and Engineering Research Council (formerly NRC) for a grant to assist with Bulletin publication.

The scientific and technical quality of the Bulletin, our flagship as a Society, could not be sustained without the voluntary assistance of the Associate Editors and reviewers. The job of Editor would not be possible without their help. The cost per page of the Bulletin has risen slightly due to increased costs for copy editing and printing, and is approximately $155 per page, compared to $145-150 last year. This still is low compared with other geological publications in Canada with similar circulation, which have costs closer to $200-250 per page. The group of copy editors available for the Bulletin and other publications of the Society has been expanded in order to keep this cost as low as possible. If there is a deterioration in quality, it may be necessary to face higher costs for copy editing. In order to make the Bulletin more
efficient, the Editor now has a budget for copy editing, rather
than the previous practice of the Society being billed directly.
If this system works efficiently, it will be expanded in 1991 to
include other costs associated with the operation of the
Bulletin. The low cost of running the Bulletin is realized
because most of the people who make the Bulletin function are
unpaid volunteers. The few paid employees make contributions
that outweigh the remuneration they receive, and their efforts
to produce a Bulletin is of very high quality of
presentation are much appreciated.

GEOLOGICAL CALENDAR (Clint Tippett, Chairperson; Bob
McMechan, Kevin Polan, Mark Hadley, John Ostrom, Sales;
and Peter Harrington, Advertising)
Sales of the 1990 Calendar were sufficient to offset
production costs once advertising revenue was taken into
account. During 1990 it was decided that it would be
appropriate to continue with past practices for the 1991
Calendar. These are a $3 per copy charge, a $25 publication
gift certificate for each accepted photograph (with some
exceptions), and a complimentary calendar for each person
who submits material for consideration. Two thousand 1991
calendars were printed with associated costs offset by
advertising charges from the eight companies involved. This
represented a decrease from ten advertisements in the 1990
Calendar but should still serve to make the Calendar more
than self-sufficient. Sales are being coordinated by the
Publication Sales Committee. Copies are available from the
CSPG office, at luncheons, and through various individuals in
industry and government.

LEXICON: WESTERN CANADA (Christian Bueck, Chair-
person; Don Glass, Editor; Andrew Chow, Paul Frydell, Carl
Hughson and Jeff McLean)
The Western Canada Lexicon of Canadian Stratigraphy,
Volume 4 was completed in May, 1990. A total of 1178
entries were submitted by 121 contributors, resulting in a 772
page volume. As of December, 1990, approximately 700 copies
of the 1200 printed were sold.
Many thanks to all committee members who diligently
proofread an enormous amount of text, and to all authors who
contributed to this valuable geological reference.

LEXICON: CENTRAL CANADA-HUDSON BAY
LOWLANDS (T.E. Bolton and M. Johnson, Editors)
Descriptions of Devonian-Mesozoic stratigraphic terms
applied in Ontario are completed. Compilation of remaining
lower Paleozoic terms continues, with anticipated completion
in late 1991.

LEXICON: ST. LAWRENCE LOWLANDS-
APPALACHIANS (Y. Globensky and T.E. Bolton, Editors)
The manuscript is complete; the publication outlet is still to
be determined.

LEXICON: CENTRAL CANADIAN SHIELD (M.J. Fraley,
Chairperson; R.M. Easton, B. Dressler, G. Bearet, Resident
Geologist, Saulie Suse, Maine District, OGS; C.E. Blackburn,
Resident Geologist, Kenora District, OGS; R.D. Card, M.
Hocq, Coordinator for Quebec; T. Clark, D. Lamorte, R.
Morin, K. Sharma, W.A. Padgham, Resident Geologist, Yellowknife,
NWT; J. Wilson, Research Officer, AGS; R.
MacDonald, Assistant Director, SGS; A.N. LeChevallier,
Head, Northern Churchill Section, Continental Geoscience
Division, GSC)
Compilation and revision of draft entries continued in 1990.
Because of the usual constraints and the scope of the project,
progress was slow.
No changes in membership of the committee are contemplated at this time.

LEXICON: B.C. AND S.W. YUKON (W.R. Danner and T.
Hey, Editors)
Work on this lexicon is continuing slowly, with only a few
new entries submitted this year. However, publication of the
new information on the Geology of British Columbia which
has resulted from the intensive studies made in the past few
years by the Geological Survey of Canada, the British
Columbia. Geological Survey and DNAG is beginning to
appear, and it is hoped that by the end of 1991 most of the
new information necessary for the completion of an up-to-date
lexicon will be in hand. A brief statement about named places
will be included (location, composition and age) as well as
information on stratigraphic units.

MEMOIR 16 — CLASTIC TIDAL SEDIMENTOLOGY
(Donald Smith, Gerry Reinson, Brian Zuidin and Ray Rahmani,
Editorial Committee; Jo MacGilvray, Copy Editor)
Negotiations with the CSPG Editorial Board resulted in the
agreement to publish the book Clastic Tidal Sedimentology as
CSPG Memoir 16. Forty papers submitted by symposium
delegates and non-delegates have been received; 24 have been
accepted for publication, with three others still in question.
The editorial committee recommends Friesen Printers of
Altona, Manitoba, because of the excellent printing they did
for the three volume Devonian memoir; they have
representatives in Calgary, and have the lowest prices. The
committee recommends a 1750 print run, with major
distribution to the IAS in Europe and the SEPM and AAGP
in the USA. We also recommend a free volume for all authors
and editors (about 40 copies). Our schedule is to have all
manuscripts processed by the end of December 1990, galley
proofs to authors by late January 1991 and final printing by
late March 1991, in order to qualify for a five per cent
discount offered by Friesen.
Demand for the book will be based on the current
realization by the oil industry that many of the Mesozoic rocks
and reservoirs in the Alberta Basin are of tidal origin and, in
general, geologists know little about tidal sedimentology. This
tidal book "bandwagon" will get sales off to a fast start. The
book will contain several key articles on how to recognize tidal
rocks, as well as many figures showing modern and ancient
examples of tidal facies. It will be the state-of-the-art volume
on tidal sedimentology for the foreseeable future. An attractive
dust cover should help sales at conferences.

ATLAS FINANCE (Morley Brown, Chairperson; Art
Slingebey)
The compilation of the new Geological Atlas of the Western
Canada Sedimentary Basin is a complex and costly endeavour.
Grant Mossop has co-ordinated a systematic network of
committees and reporting structures involving dozens of
individual contributors, geologists working in industry,
government and academia, a large number of institutions and
corporations, and project sponsors, data donors, financial
patrons and contributors' employees. The CSPG's role will be
financing and coordinating the printing of the final production,
estimated at $350,000.

This committee's role is to act on behalf of the CSPG in
soliciting the necessary funds. Initial contacts with fifteen
major companies in 1987 resulted in over $90,000 committed.
The committee's follow-up during 1989 resulted in
in collection of over $128,825 from 60 companies, and an
additional $98,855 committed. A total of 175 companies were
approached: 66 responded with donations, three were unable to
donate and the remaining 107 have yet to respond.
The second phase of the Atlas fund raising drive
commenced in January, 1990. To date additional $162,505
from 104 companies has been collected, with an additional
$71,870 committed and yet to be received. A number of
donations have been received as a response to the 1990 CSPG
convention. The total fund as of December 1, 1990 (not
including interest) is $392,330.

In order to encourage sizeable contributions, the CSPG has
agreed to award a complimentary Atlas for each $1,000
contribution. This committee expects to hand out approximately 350 complimentary atlases. The cost will be
paid from the fund.

Funds to date have been placed in various investment
vehicles to maximize the interest return, split amongst three
different chartered institutions. Administration costs of the
campaign have been covered by Noreco Energy and thus
represent less than 0.1% of the total collected to date. Some
additional expenses for advertising and signage are expected
later next year, but should amount to less than $2,500.00.

BUSINESS COMMITTEES

TECHNICAL PROGRAM TICKET SALES (Louis Girard,
Chairperson)
Technical Luncheon ticket sales in 1990 totaled 14,561,
which is an average of 809 tickets sold per talk. Four of the
talks in 1990 were completely sold out. A total of 37
companies are currently provided with tickets on a monthly
basis. It is anticipated that up to five more companies will be
added to this list in the New Year.
The Ticket Sales Committee sincerely appreciates the efforts
put forth by the following company sales representatives and
thanks them for their valuable assistance in 1990:
Rosalee Norden, Alberta Energy Corporation
Wayne Mertel, Amerada Minerals Corp.
Annabelle Winter, Amoco Canada
Susan Jones, AECOR Ltd.
Bob Kuchinsky, BPB Instruments
John Korec, Bow Valley Resources
Murray Jackson, Cabre Exploration
Debbie Tiel, Canadian Hunter Exploration Ltd.
Diane McLauchlan, Canadian Occidental
Sheila Dylke, CSPG
Victor Noguera, Chevron Canada Resources
Sara Moore, Coles Gilbert & Assoc.
Veonique Mutschlechner, Encor Energy Ltd.
Peter Cupido, Energy Resources Conser, Board
Brenda Shoemaker, Esso Resources Canada Ltd.
Jill Derbshire, Gulf Canada Resources
Michelle Naden, Home Oil Company Ltd.
Kathie Gallucci, Husky Oil Operations Ltd.
Jim Barclay, ISPG
Joan Matthews, Kerr McGee Canada Ltd.
LaRa Nelson, Mark Resources
Elaine Seeger, Mobil Oil Canada Ltd.
My Lan Khau, Murphy Oil Company Ltd.
Barbara Thomas, Noreco Energy Resources
Colin Murray, Occident Ltd.
Steve Dryer, PanCanadian Petroleum Ltd.
Marlin McFarlane, Petro-Canada
Karen Brazzoni, Phillips Petroleum Res. Ltd.
Kevin Heywood, Sceptre Resources
Sandy Riley, Shell Canada Resources Ltd.
Macy Alice Rooney, Sunoco Inc.
Steffa Nagy, Tull Petroleum Canada Ltd.
Greg Mayer, Unocal Canada Exploration Ltd.
Leo-Ann Reber, Voyageur Petroleum Ltd.
Linda Hales, Weycoast Petroleum
Wendy Fox, Western Gas Marketing

GOVERNMENT GRANTS COMMITTEE (John R. Hogg,
Chairperson)
The main goal of the Government Grants Committee is to
provide a mechanism for other operating committees to apply
for provincial and federal grants.
The Grants Committee is currently accumulating data for a
grant application for the Sedimentology Display Committee to
the Federal Government's Supply and Services Department
under the Science Culture Canada Grant Program.
All committee members wishing to use the Government
Grants Committee to apply for grants should approach the
committee 12 to 18 months before completion of their project in order to allow sufficient lead time for government processing, which is only done once or twice a year.

ADVERTISING COMMITTEE (Peter Harrington, Chairperson; Bill Hackett)

The advertising committee generated $59,211 in revenue in 1990 ($63,641 after adjustments), which is a decrease of 13.9% from 1989 (a decrease of 7.4% after adjustments).

<table>
<thead>
<tr>
<th>REVENUE</th>
<th>1990</th>
<th>1989</th>
<th>1988</th>
<th>1987</th>
<th>%change (90 vs 89)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reservoir</td>
<td>8,525</td>
<td>22,578</td>
<td>22,315</td>
<td>26,227</td>
<td>(62.2%)</td>
</tr>
<tr>
<td>Inserts</td>
<td>38,645</td>
<td>31,542</td>
<td>34,120</td>
<td>30,528</td>
<td>(22.5%)</td>
</tr>
<tr>
<td>Total</td>
<td>47,170</td>
<td>54,120</td>
<td>56,455</td>
<td>56,755</td>
<td>(12.8%)</td>
</tr>
<tr>
<td>Calendars</td>
<td>3,491</td>
<td>5,014</td>
<td>6,799</td>
<td>6,662</td>
<td>(30.4%)</td>
</tr>
<tr>
<td>Luncheons</td>
<td>4,536</td>
<td>4,625</td>
<td>3,750</td>
<td>2,600</td>
<td>(1.6%)</td>
</tr>
<tr>
<td>Mem. Dir.</td>
<td>4,000</td>
<td>5,000</td>
<td>3,000</td>
<td>2,625</td>
<td>(20.9%)</td>
</tr>
<tr>
<td>Total</td>
<td>59,211</td>
<td>68,739</td>
<td>74,184</td>
<td>66,642</td>
<td>(13.9%)</td>
</tr>
<tr>
<td>(before adjustments)</td>
<td>4,430</td>
<td>4,180</td>
<td>4,180</td>
<td>4,180</td>
<td>4,180</td>
</tr>
</tbody>
</table>

ADJUSTMENT 4,430 — (4,180) —

The decrease was due primarily to a reduction in four advertising areas (core analysis, studies sales, computing, and insurance), reflecting the continued slowdown in operational activity in Western Canada. This more than offset the healthy increase from course advertisements, wireline logging, fluid analysis, data management, travel, and financial management.

The committee’s concentration on diversification of advertising revenue has been largely successful. The top ten advertisers contributed 55.2% of total revenue in 1990 compared to 66.0% in 1987. This figure documents the fact that our revenue is less dependent on a few large advertisers than it was in the past. Also, the proportion of overall revenue contributed by the top 12 advertisers in 1987 dropped to 41.2% in 1990 from 69.9% in 1987, indicating that the advertising committee’s drive to bring on new advertisers has been successful in diversifying our sources of revenue.

The committee’s main goal in 1991 will be to increase revenue from traditional geological sources (i.e., core analysis, mud logging, wellsite supervision, etc.) as well as concentrating on convincing more publishing houses to distribute their literature through the Reservoir rather than independently. The growth in advertising by traditional geological customers will be helped immeasurably by the predicted upswing in operational activity in 1991. We should have no problem in achieving this goal, which would be a record for advertising sales by the CSPG.

In order to achieve these ambitious goals, it will be necessary for the advertising committee to expand from its current complement of two to between six and eight members. Anyone interested in volunteering to work on a dynamic and energetic committee that makes significant contributions to the Society as a whole would be more than welcome.

MEMBERSHIP COMMITTEE (Sandy Lanning, Chairperson; Clay H. Riddell)

The membership figures for the last five years are as follows:

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Active</td>
<td>3445</td>
<td>3229</td>
<td>3198</td>
<td>3225</td>
<td>3147</td>
</tr>
<tr>
<td>Associate</td>
<td>218</td>
<td>171</td>
<td>167</td>
<td>192</td>
<td>176</td>
</tr>
<tr>
<td>Student</td>
<td>226</td>
<td>162</td>
<td>258</td>
<td>231</td>
<td>203</td>
</tr>
<tr>
<td>Emeritus</td>
<td>63</td>
<td>55</td>
<td>68</td>
<td>84</td>
<td>102</td>
</tr>
<tr>
<td>Corporate</td>
<td>51</td>
<td>76</td>
<td>70</td>
<td>65</td>
<td>66</td>
</tr>
<tr>
<td>Honorary</td>
<td>35</td>
<td>36</td>
<td>39</td>
<td>40</td>
<td>39</td>
</tr>
<tr>
<td>Total</td>
<td>4051</td>
<td>3729</td>
<td>3800</td>
<td>3857</td>
<td>3733</td>
</tr>
<tr>
<td>Subscribers</td>
<td>440</td>
<td>476</td>
<td>470</td>
<td>416</td>
<td>421</td>
</tr>
</tbody>
</table>

Total membership decreased in 1990 by 4 per cent from 1989. An 18 per cent gain in Emeritus Members was offset by a 3 per cent loss in Active Members, an 8 per cent loss in Associate Members and a 12 per cent loss in Student Members. This is the second year in a row for such large losses in Student Members.

NOMINATING COMMITTEE (Bill May, Chairperson; Gord Williams, Tim Marchant)

The 1990 Nominating Committee produced the following slate of candidates for election to the 1991 Executive Committee:

- President – J. (Jim) S. MacDonald
- Vice-President – Alice Payne, Glynne Wright
- Secretary – Marty Hewitt, Daryl Wightman
- Treasurer – Catherine Chaplin
- Director/Assistant Treasurer – Michael Marchand, Lawrence West
- Business Manager – Ian Moffat
- Director/Assistant Business Manager – Bill Carr, Bill Hackett

No candidates were nominated by the membership at large. The mail ballot totalled 1000 ballots. Ballots were counted on December 6 by Bill May, Ed Klovan, Don Keith, Ian Moffat, Sheila Hinch and Catherine Chaplin.

The newly elected 1991 Executive Committee consists of:
- President – Jim MacDonald
- Vice-President – Alice Payne
- Secretary – Daryl Wightman
- Treasurer – Catherine Chaplin
- Director/Assistant Treasurer – Michael Marchand
- Business Manager – Ian Moffat
- Director/Assistant Business Manager – Bill Hackett
The new executive will take office at the annual meeting in February, 1991.

**DISCIPLINE COMMITTEE (Bill May, Chairperson)**

The purpose of this committee is to consider matters relating to the ethical behaviour 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 1990.

**GEOLOGICAL PLACEMENT (B.J. Pfifer, Chairperson)**

The CSPG maintains an updated file of resume of geologists seeking employment, for access at its office by interested employers. There is no charge for this service. This file continues to be accessed regularly by interested parties. Geologists seeking employment are urged to make use of this service so it can be of maximum benefit to prospective employers.

**GROUP LIFE/AUTO/HOME INSURANCE (B.J. Pfifer, Chairperson)**

CSPG insurance plans covering life, health, dental, auto and home insurance offer very competitive rates and continue to be well received by the membership. In addition, a very competitive long-term disability policy is being put together by our broker Brian Ogden to be offered to the membership in the near future.

**COMPUTER FACILITIES COMMITTEE (Gordon D. Williams, Chairperson; David W. Pini, Alyson W. Robertson)**

The most apparent change effected during the past year was the development of financial extensions to the membership database and records system, which first became operational in 1984. Members will be aware of the new extensions through the computer-generated receipts and “membership cards” which they received in November and December when they paid their dues for 1991.

The new software records dues payments, produces receipts and membership cards, prepares bank deposit reports, generates lists of paid-up members and tabulates dues income by category for the treasurer. The system also produces mailing labels and word processing files to be used in contacting members whose dues are not received before the approved payment deadlines. Unfortunately, the accounting package used by the Society does not permit direct transfer of data from the membership records system, so a relatively small amount of tabulated data must be manually entered by the treasurer. The membership database system also produces the special page layout required for publishing the Membership Directory.

All the old word processing files for the Committee Structure Book, Manual of Operations, and the Blue Book (a comprehensive list of members and their contributions to the Society over the years), originally in at least four computer formats and on three types of floppy disks, have been converted into WordPerfect, and an up-to-date, edited copy of the Blue Book will be available for consultation by interested committee chairperson and others by early 1991. If interest warrants, the Blue Book information will be made into a computer-searchable data base.

A new printer was purchased during the year to replace the existing one, which required repairs because of heavy use in printing mailing labels. The old printer is now used as a backup machine. Because office operations are now very dependent on the computer, and as a result of a lesson learned from a minor incident during the year, all files are now backed up daily.

**MERCHANDISING COMMITTEE (Leo Piedimonte, Chairperson; Art Slinger, Kevin Heywood, Reid Brodylo)**

The purpose of the committee is to develop, and make available for sale, products of interest to members, to make the Society more visible to its members and to the general public.

In 1990, the committee’s major objective was to reduce inventory by promoting sales through the CSPG office, to encourage sales of CSPG products, and to work with other committees in promoting our Society. Our objective remains to undertake a dynamic approach in satisfying members’ needs, while making the Society more visible to all.

**ANNUAL GENERAL MEETING (Bill May, Chairperson)**

The Annual General Meeting was held at the Westin Hotel on February 13, 1990 in association with a short technical presentation.

The Annual Report was tabled and President Bill May gave a brief summary of the very successful year that the Society had in 1989. Kathryn Heuss presented a thorough summary of the Society’s financial strength. Incoming President Ed Kloxan briefly addressed the audience, thanking the outgoing executive for their efforts and outlining the goals for the upcoming year.

**SOCIAL EVENTS**

**PAST PRESIDENTs’ DINNER (Bill May, Chairperson)**

The 16th Annual Past Presidents’ Dinner was held on October 11, 1990, in the Penthouse of the Palliser Hotel. The dinner was attended by 24 past presidents of the Society and current 1990 executive members. A special guest (George Eynon) was also invited to attend. After cocktails, lots of conversation and an enjoyable dinner, Past President Bill May introduced the current CSPG Executive Committee, and President Ed Kloxan reviewed the highlights of the past year, including our current financial status, level of membership, future publications and conference plans. Concern was expressed about the lack of publications for future years. George Eynon made a presentation on the current status of the 1992 AAPG Annual Convention. A lengthy discussion
followed, focusing on problems with the Saint Lawrence Lowlands region, and the potential lack of profits from the 1992 convention.

AWARDS DINNER AND SOCIAL (Chris. J. Le Gallais, Chairperson; Elyseath Snow, Ben Robertson)

The Awards Dinner and Social was held at the Palliser Hotel on Friday, February 9, 1990. The Society’s awards were presented after a gourmet dinner. Entertainment was provided by the Sounds United.

Response was encouraging — 205 people attended, and enjoyed themselves thoroughly. The net subsidy by the CSPG was kept to a minimum because of the gracious support of the following companies:

- CN Exploration
- Canadian Harman Exploration Ltd.
- Geoscience Resources Ltd.
- Alberta Energy Company Ltd.
- Alcan Exploration Ltd.
- Mark Resources Ltd.
- Scopec Resources Ltd.

The printed tickets and program were provided courtesy of Chevron Resources Canada Ltd.

SQUASH TOURNAMENT (D. Lefort, Chairperson; G. Lothian, A. Cecchini, B. Sullivan, L. Young, L. Poole)

The 1990 Seventh Annual Squash Tournament was held at the Richmond Squash Club, March 30–31, 1990.

Once again there was a record draw — this time 109 participants — with a much larger ladies’ draw than in previous years. The men’s A event was also the strongest ever, culminating in a classic struggle between two of Alberta’s best players, Dave Safons and John Cox.

All the players had a great time meeting new people and renewing contacts, both on court and afterwards. More than 120 showed up for the awards banquet on Saturday night, illustrating the strong social nature of the tournament. A new addition this year was a pre-tournament party at Bufflehead Bites, which proved a roaring success.

The committee is indebted to the high degree of industry sponsorship, enabling the wealth of door prizes, a high quality tournament, and an entry fee of just $25.

The 1991 Eighth Annual CSPG Squash Tournament will be held on March 22–23, 1991 at the Richmond Squash Club. Entry forms will be available in the Reservoir, beginning with the January, 1991 issue.

After three years overseeing the tournament and watching it grow tremendously in size and reputation, D. Lefort and G. Loughlin are stepping down from the committee and will be sorely missed. The 1991 committee is as follows: L. Young, Chairperson; A. Cecchini, L. Sayler, M. Wooster, B. Sullivan.

LADIES’ GOLF TOURNAMENT (Julie Amos and Laurie Smith, Co-Chairpersons)

The 5th Annual CSPG Ladies’ Golf Tournament was held August 23rd, 1990 at Valley Ridge Golf Club.

We would like to thank all the sponsors and participants for their generous support.

The 1991 tournament date will be announced in the June issue of the Reservoir.

OPEN GOLF TOURNAMENT (W.J. Hackett, Chairperson; Catherine Chaplin, Jan Cruzdel, Peter Harrington, Martin Hewitt, John Hogg, Kathy Lapointe, Dick Willott)

One hundred and twelve participants braved sunny, warm weather at the inaugural CSPG Open Golf Tournament held at the Cottonwood Golf and Country Club on September 10th, 1990. This year, the event was open to all members and registration was accepted on a first come, first served basis.

The Open Golf Tournament was not only financially self-sufficient, but it made a considerable profit for the Society as a whole. The joint efforts of this committee and the Advertising Committee resulted in heavy subsidization of course fees and amenities, as well as increased advertising revenue. In fact, an increase of roughly $3000 in advertising revenue will be attributed to this event. Benefits included free carts, breakfast, lunch, dinner, numerous prizes, and outstanding individual and team trophies.

A highlight of the day occurred on the eleventh hole as Good Yoo (ABC) put it in the cup off the tee, thus relieving Canadian Airlines International of two round trip tickets to London, England.

The committee wishes to thank the participants and sponsors for making this a memorable event. We especially appreciate the support of our lead sponsor, Financial Management; and of our four major sponsors, OCCI, QC Data Collectors, Core Laboratories, and Schlamberger.

We look forward to the 1991 CSPG Open, which will be held once again at the Cottonwood Golf and Country Club on Thursday, August 29, 1991. In keeping with the “open” philosophy of this event, no priority will be given for 1991 registration to participants of the 1990 event. Registration will be accepted from any CSPG member on a first come, first served basis until the tournament is full.

MENS’ GOLF TOURNAMENT (Bill Mooney, Chairperson; Richard Edgar, Poot Der, George Norgard, Bob Jonston, Bill Galloway, Duncan McGowan, Al Blackie, Bob Sullivan, Mosby Radich, Fred Turner, Greg Loughlin, Paul Waslik, Ian Holmes, Dave Clements, Ed Pearson, Gary Freeman, Jim Milligan and Console Freeman)

The 1990 version of the Mens’ Golf Tournament was the 30th anniversary of the event, and was held on June 20, 21 and 22 at the Pheasentry Golf and Country Club. Once again, largely due to generous industry sponsorship and a great effort by the organizing committee, the event was very successful in enabling participants to make and renew many friendships. The 1991 Chairperson will be Greg Loughlin. Next year’s tournament will be held once again at Pheasentry in June.
10K ROAD RACE (Greg Robb and Rob Pryde)

The second annual CSPG 10K road race took place July 22, 1990 at Fish Creek Provincial Park. The event was once again extremely well supported by industry and very well received by participants. The race committee would like to thank all sponsors, volunteers and participants, and invite you all to come out again in 1991.

A total of 115 people entered the race, and 94 participated.

Winners

**Women**
- 27 and under
  1. Cari Chamberlain
  2. Sandra Barker
- 28-34
  1. Merrill Schmitt
  2. Karen Cameron
  3. Terri Fetherstonhaugh
- 35 and over
  1. Annie Elliot
  2. Nolene Kinloch
  3. Patti Kingsep

**Men**
- 27 and under
  1. Chris Poirer
  2. Bruce Ainsworth
  3. John Jennings
- 28-34
  1. Dave Theriault
  2. Drew Gram
  3. Murray Gilhooley
- 35 and over
  1. Nigel Watts

2. Neil Watson
3. Glen McWilliams

Fastest geologists

**Women**: Merrill Schmitt 42:33
**Men**: Nigel Watts 34:08

Fastest geophysicists

**Women**: Karen Cameron 44:27
**Men**: Robert Tacon 39:32

Sponsors

- Adidas Canada
- AEC Oil and Gas Company
- Amoco Canada Petroleum
- AGAT Laboratories
- AGT Mobile Communications
- Alberta Traffic Supply
- BP Resources
- Bellco Petroleum Consultants
- Butler Survey Supplies
- Canadian Helicopters
- Canadian Hunter
- CSEG
- CSPG
- Fountain Park Club
- Gord's Running Room
- Graymor Coffee Services
- Gulf Canada Resources
- Integrated Metallurgical Services
- MacDonalds Restaurants
- MMMarvelous MM-Muffins
- Seispro and Consultants
- Western Atlas

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