In 1991 the CSPG membership had to face profound fundamental changes in world markets and within energy companies. The “downsizing” by industry has been upsetting and painful to our membership. I would like to commend our membership, office staff, committee volunteers and executive for their continuing dedication and support throughout this difficult period.

Canada has a rich resource base yet to be discovered. Thus, there will be a continuing demand for well-trained, imaginative geologists to apply their skills. There will also be a continuing need for more and more training to develop entrepreneurial skills and to gain experience in such rapidly developing fields as “Environmental Geology”.

There is a modest downward drift in our membership to 3,531 at year end. This is a decline of approximately 5 percent. It goes without saying that we are going to need more and more volunteers to share the workload generated by our committees, publications and other various endeavours that the CSPG does so well.

A major executive responsibility is to monitor and husband the Society's financial resources. A positive and dependable cash flow is necessary to plan and carry out successfully our many programs. Our treasurers and business managers depend on the goodwill of our many committees to prepare timely, meaningful budgets. As with any enterprise, every project proposed to the CSPG has to be thoroughly analyzed and judged according to its merits. I feel strongly that the CSPG can accomplish whatever it sets out to do. The Treasurer’s report, which follows, shows a healthy positive balance for 1991.

I very much appreciate the generous support I have received from the executive, the office staff, and the many vibrant committees. Thank you for giving me the opportunity to serve as your president.
TREASURER'S REPORT

(C.E. Chaplin)

This report covers the CSPG financial year ending November 30, 1991, and includes the Society's audited financial statements. This is the second year that the CSPG's accounting system has operated on an accrual basis, and the first year that the Society has been obligated to collect the Goods and Services Tax. All reported figures are net of G.S.T.

The Society's 1991 financial picture is very similar to the previous year's. A net profit of $75,600 was realized, in comparison to $81,070 from 1990. A general operating loss of about $27,000 occurred, which represents a $7,000 reduction in losses over the previous year. Operating expenses increased, largely as a result of costs incurred through the publication of the Special Bulletin issue on the Peace River Arch, and from the under-accrual of audit fees in last year's financial statements. The 1991 professional fees category contains both a payment for half of the 1990 audit and all of the 1991 audit. General operating losses were more than offset by the substantial profit made by

the 1991 Annual Convention. Income generated by the convention is largely responsible for the overall net profit position of the Society.

The apparent loss in publication revenue, of about $6,600, is due to a combination of several unusual expenses. Publication and printing costs were incurred late in the year for Memoirs 12, 15 and 16, which because of timing generated no offsetting income. A one-time repayment of $12,500 was made to the Atlantic Geoscience Society for past sales of joint publications. Lastly, a changeover was made in the handling of AAPG publications. AAPG publications are now inventoried on a consignment basis. In February, our stock of those publications was converted to a $29,000 credit. Our 1991 inventory value no longer contains AAPG publications, although the 1990 inventory value does. We currently have an outstanding receivable from the AAPG of approximately $10,000 which is not reflected in the audit statement.
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, 1991 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 of 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, 1991 and the results of its operations for the year then ended in accordance with generally accepted accounting principles.

Collins Barrow
CHARTERED ACCOUNTANTS

Calgary, Alberta
December 20, 1991
**CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS**

**BALANCE SHEET**

**NOVEMBER 30, 1991**

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>1991</th>
<th>1990</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current assets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash</td>
<td>$183,627</td>
<td>$257,730</td>
</tr>
<tr>
<td>Short-term deposits</td>
<td>592,969</td>
<td>486,522</td>
</tr>
<tr>
<td>Accounts receivable and prepaid expenses</td>
<td>46,564</td>
<td>33,103</td>
</tr>
<tr>
<td>Inventory</td>
<td>113,277</td>
<td>170,032</td>
</tr>
<tr>
<td>Work in progress – Schedule 7</td>
<td>9,479</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,015,916</td>
<td>947,387</td>
</tr>
<tr>
<td>Restricted funds (note 2)</td>
<td>462,781</td>
<td>360,157</td>
</tr>
<tr>
<td></td>
<td>$1,478,697</td>
<td>$1,307,544</td>
</tr>
</tbody>
</table>

| LIABILITIES                   |        |        |
| Current liabilities           |        |        |
| Accounts payable and accrued liabilities | $48,655 | $51,284 |
| Deferred revenue              | 82,255 | 87,050 |
|                               | 130,910 | 138,334 |

| MEMBERS’ EQUITY               |        |        |
| Surplus                       |        |        |
| Operating                     | 875,527 | 809,053 |
| Atlas Finance Fund            | 472,260 | 360,157 |
|                               | 1,347,787 | 1,169,210 |
| Commitments (note 3)          |        |        |
|                               | $1,478,697 | $1,307,544 |

Approved on behalf of the Society.

[signatures]

**Collins Barrow**
**CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS**

**STATEMENT OF OPERATIONS AND SURPLUS**

**YEAR ENDED NOVEMBER 30, 1991**

<table>
<thead>
<tr>
<th></th>
<th>1991</th>
<th>1990</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Membership fees</td>
<td>$185,528</td>
<td>$183,079</td>
</tr>
<tr>
<td>Advertising and subscriptions</td>
<td>107,322</td>
<td>77,174</td>
</tr>
<tr>
<td>Interest and other income - Schedule 1</td>
<td>63,427</td>
<td>66,196</td>
</tr>
<tr>
<td></td>
<td>356,277</td>
<td>326,449</td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating expenses - Schedule 2</td>
<td>383,510</td>
<td>360,379</td>
</tr>
<tr>
<td>Loss from general operations</td>
<td>(27,233)</td>
<td>(33,930)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other income (expenses)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Publications - Schedule 3</td>
<td>(6,596)</td>
<td>11,756</td>
</tr>
<tr>
<td>Technical Programs - Schedule 4</td>
<td>10,673</td>
<td>15,509</td>
</tr>
<tr>
<td>Annual Convention - Schedule 5</td>
<td>133,017</td>
<td>112,430</td>
</tr>
<tr>
<td>Social Events - Schedule 6</td>
<td>829</td>
<td>(1,863)</td>
</tr>
<tr>
<td>50th Anniversary Fund donation</td>
<td>(35,000)</td>
<td>(22,812)</td>
</tr>
<tr>
<td></td>
<td>102,923</td>
<td>115,000</td>
</tr>
<tr>
<td><strong>Net income</strong></td>
<td>75,690</td>
<td>81,070</td>
</tr>
<tr>
<td><strong>Surplus, beginning of year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>As originally reported</td>
<td>1,169,210</td>
<td>438,432</td>
</tr>
<tr>
<td>Adjustment for retroactive change in accounting policy</td>
<td>-</td>
<td>492,585</td>
</tr>
<tr>
<td></td>
<td>1,169,210</td>
<td>931,017</td>
</tr>
<tr>
<td></td>
<td>1,244,900</td>
<td>1,012,087</td>
</tr>
<tr>
<td><strong>Atlas Finance Fund - Schedule 7</strong></td>
<td>102,887</td>
<td>157,123</td>
</tr>
<tr>
<td><strong>Surplus, end of year</strong></td>
<td>$1,347,787</td>
<td>$1,169,210</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) Work in progress

      Work in progress is comprised of publication costs incurred to date in respect of the Geological Atlas [note 3(a)].

   c) Fixed assets

      Expenditures on fixed assets are expensed as incurred by the Society. Expenditures for the current year amounted to $4,649 (1990 - $4,947).

   d) Donation pledges

      Donations pledged in conjunction with the Atlas Finance Fund are recorded when collectibility is assured. At November 30, 1991, pledges in the amount of $46,400 (1990 - $67,200) had not been accrued in the accounts.

   e) Donated services

      These financial statements do not account for the value of donated services.

   f) 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)(l) of the Income Tax Act.

2. 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 $472,260 (1990 - $360,157) which includes $109,216 (1990 - $100,000) transferred from the operating surplus (see Schedule 7 - Atlas Finance Fund).
2. Restricted funds (cont'd)

The restricted funds are as follows:

<table>
<thead>
<tr>
<th></th>
<th>1991</th>
<th>1990</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and short-term deposits</td>
<td>$458,791</td>
<td>$353,541</td>
</tr>
<tr>
<td>Accrued interest receivable</td>
<td>3,990</td>
<td>6,616</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$462,781</strong></td>
<td><strong>$360,157</strong></td>
</tr>
</tbody>
</table>

The balance in the Atlas Finance Fund is as follows:

<table>
<thead>
<tr>
<th></th>
<th>1991</th>
<th>1990</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restricted funds</td>
<td>$462,781</td>
<td>$360,157</td>
</tr>
<tr>
<td>Work in progress</td>
<td>9,479</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$472,260</strong></td>
<td><strong>$360,157</strong></td>
</tr>
</tbody>
</table>

3. Commitments

a) Atlas Finance Fund

The Society is committed to spend an estimated $350,000 in 1992 in printing costs for the Atlas. In addition, atlases valued at approximately $48,150 (1990 - $33,150) will be distributed on a complimentary basis to donors in conjunction with the fund-raising campaign.

b) Lease commitments

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1992</td>
<td>$29,939</td>
</tr>
<tr>
<td>1993</td>
<td>26,529</td>
</tr>
<tr>
<td>1994</td>
<td>28,529</td>
</tr>
<tr>
<td>1995</td>
<td>28,529</td>
</tr>
<tr>
<td>1996</td>
<td>24,052</td>
</tr>
</tbody>
</table>

4. Statement of cash flow

A statement of cash flow has not been presented as it would not provide additional useful information.
### CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

**SCHEDULE OF INTEREST AND OTHER INCOME**

**YEAR ENDED NOVEMBER 30, 1991**

<table>
<thead>
<tr>
<th></th>
<th>1991</th>
<th>1990</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and short-term deposits interest income</td>
<td>$55,827</td>
<td>$49,879</td>
</tr>
<tr>
<td>Committee interest income</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual Convention</td>
<td>4,085</td>
<td>11,228</td>
</tr>
<tr>
<td>Continuing education</td>
<td>154</td>
<td>1,293</td>
</tr>
<tr>
<td>Honorary address</td>
<td>155</td>
<td>58</td>
</tr>
<tr>
<td>Men's Golf Tournament</td>
<td>766</td>
<td>-</td>
</tr>
<tr>
<td>Squash Tournament</td>
<td>99</td>
<td>170</td>
</tr>
<tr>
<td>1989 Core Conference</td>
<td>244</td>
<td>394</td>
</tr>
<tr>
<td>1989 Tidal Symposium</td>
<td>1,091</td>
<td>3,174</td>
</tr>
<tr>
<td>Other income</td>
<td>1,004</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td><strong>$61,427</strong></td>
<td><strong>$66,196</strong></td>
</tr>
</tbody>
</table>
### Schedule 2

**Canadian Society of Petroleum Geologists**

**Schedule of Operating Expenses**

**Year Ended November 30, 1991**

<table>
<thead>
<tr>
<th></th>
<th>1991</th>
<th>1990</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulletin publication</td>
<td>$93,081</td>
<td>$106,198</td>
</tr>
<tr>
<td>Special bulletin publication</td>
<td>38,718</td>
<td>-</td>
</tr>
<tr>
<td>Reservoir publication</td>
<td>73,639</td>
<td>76,104</td>
</tr>
<tr>
<td>Advertising sales committee</td>
<td>4,093</td>
<td>3,067</td>
</tr>
<tr>
<td>Annual general meeting</td>
<td>2,075</td>
<td>1,646</td>
</tr>
<tr>
<td>Awards</td>
<td>8,343</td>
<td>18,436</td>
</tr>
<tr>
<td>Executive committee</td>
<td>9,381</td>
<td>8,072</td>
</tr>
<tr>
<td>Liaison committees</td>
<td>8,607</td>
<td>11,477</td>
</tr>
<tr>
<td>Public service</td>
<td>2,952</td>
<td>939</td>
</tr>
<tr>
<td>Bank charges and Visa</td>
<td>624</td>
<td>1,527</td>
</tr>
<tr>
<td>Equipment leases and maintenance</td>
<td>10,026</td>
<td>17,146</td>
</tr>
<tr>
<td>Insurance</td>
<td>2,998</td>
<td>1,725</td>
</tr>
<tr>
<td>Office rent</td>
<td>28,707</td>
<td>29,534</td>
</tr>
<tr>
<td>Postage</td>
<td>7,579</td>
<td>11,533</td>
</tr>
<tr>
<td>Professional fees</td>
<td>21,149</td>
<td>7,546</td>
</tr>
<tr>
<td>Salaries and employee benefits</td>
<td>64,919</td>
<td>64,082</td>
</tr>
<tr>
<td>Stationery, supplies and computer associated costs</td>
<td>14,298</td>
<td>13,129</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>391,189</td>
<td>372,161</td>
</tr>
</tbody>
</table>

Less: Expenses recovered

<table>
<thead>
<tr>
<th></th>
<th>1991</th>
<th>1990</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>$383,510</td>
<td>$360,379</td>
</tr>
</tbody>
</table>
### Schedule 1

**Canadian Society of Petroleum Geologists**

**Publications**

**Schedule of Operations**

**Year Ended November 30, 1991**

<table>
<thead>
<tr>
<th></th>
<th>1991</th>
<th>1990</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sales</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSPG Publications</td>
<td>$77,195</td>
<td>$121,789</td>
</tr>
<tr>
<td>Joint Publications</td>
<td>14,281</td>
<td>23,308</td>
</tr>
<tr>
<td>AAPG Publications</td>
<td>39,575</td>
<td>78,126</td>
</tr>
<tr>
<td><strong>Total Sales</strong></td>
<td>131,051</td>
<td>223,223</td>
</tr>
<tr>
<td><strong>Cost of Sales</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inventory, beginning of year</td>
<td>170,032</td>
<td>178,571</td>
</tr>
<tr>
<td><strong>Publication Costs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSPG Publications</td>
<td>105,150</td>
<td>125,170</td>
</tr>
<tr>
<td>Joint Publications</td>
<td>12,042</td>
<td>7,486</td>
</tr>
<tr>
<td>AAPG Publications</td>
<td>23,790</td>
<td>70,270</td>
</tr>
<tr>
<td><strong>Total Cost of Sales</strong></td>
<td>310,924</td>
<td>381,499</td>
</tr>
<tr>
<td><strong>Less: Inventory, end of year</strong></td>
<td>173,277</td>
<td>170,032</td>
</tr>
<tr>
<td><strong>Net Income (Loss)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$6,596</td>
<td>$11,756</td>
</tr>
</tbody>
</table>
### Schedule 4

**Canadian Society of Petroleum Geologists**

**Technical Programs**

**Schedule of Operations**

**Year Ended November 30, 1991**

<table>
<thead>
<tr>
<th></th>
<th>1991</th>
<th>1990</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical luncheons</td>
<td>$236,282</td>
<td>$200,106</td>
</tr>
<tr>
<td>Continuing education</td>
<td>30,769</td>
<td>28,340</td>
</tr>
<tr>
<td>Honorary address</td>
<td>10,076</td>
<td>3,990</td>
</tr>
<tr>
<td>Field trips</td>
<td>690</td>
<td>245</td>
</tr>
<tr>
<td>1989 Tidal Symposium</td>
<td>—</td>
<td>4,728</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td>$277,817</td>
<td>$237,409</td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical luncheons</td>
<td>221,151</td>
<td>186,850</td>
</tr>
<tr>
<td>Continuing education</td>
<td>25,600</td>
<td>23,046</td>
</tr>
<tr>
<td>Honorary address</td>
<td>7,779</td>
<td>4,720</td>
</tr>
<tr>
<td>Visiting lecturers</td>
<td>3,134</td>
<td>6,207</td>
</tr>
<tr>
<td>1989 Tidal Symposium</td>
<td>2,631</td>
<td>1,375</td>
</tr>
<tr>
<td>Other (recovered)</td>
<td>6,849</td>
<td>(298)</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>$267,144</td>
<td>$221,900</td>
</tr>
<tr>
<td><strong>Net Income</strong></td>
<td>$10,673</td>
<td>$15,509</td>
</tr>
</tbody>
</table>
### Schedule 5

**CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS**

**ANNUAL CONVENTION**

**SCHEDULE OF OPERATIONS**

**YEAR ENDED NOVEMBER 30, 1991**

<table>
<thead>
<tr>
<th></th>
<th>1991</th>
<th>1990</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fees</td>
<td>$181,847</td>
<td>$174,550</td>
</tr>
<tr>
<td>Exhibit booth rental</td>
<td>34,318</td>
<td>31,369</td>
</tr>
<tr>
<td>Field trips</td>
<td>29,549</td>
<td>59,315</td>
</tr>
<tr>
<td>Short courses</td>
<td>39,430</td>
<td>25,100</td>
</tr>
<tr>
<td>Donations</td>
<td>4,912</td>
<td>2,500</td>
</tr>
<tr>
<td>Other</td>
<td>26,370</td>
<td>38,609</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td>316,426</td>
<td>331,443</td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration and convention centre</td>
<td>22,333</td>
<td>37,046</td>
</tr>
<tr>
<td>Exhibits</td>
<td>25,660</td>
<td>17,859</td>
</tr>
<tr>
<td>Printing</td>
<td>15,335</td>
<td>35,461</td>
</tr>
<tr>
<td>Publicity</td>
<td>25,351</td>
<td>21,443</td>
</tr>
<tr>
<td>Field trips</td>
<td>22,776</td>
<td>54,687</td>
</tr>
<tr>
<td>Short courses</td>
<td>27,041</td>
<td>8,262</td>
</tr>
<tr>
<td>Social and chairman's expenses</td>
<td>41,529</td>
<td>42,442</td>
</tr>
<tr>
<td>Other</td>
<td>3,384</td>
<td>1,803</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>183,409</td>
<td>219,013</td>
</tr>
<tr>
<td><strong>Net income</strong></td>
<td>133,017</td>
<td>112,430</td>
</tr>
</tbody>
</table>
## CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

### SOCIAL EVENTS

**SCHEDULE OF OPERATIONS**

**YEAR ENDED NOVEMBER 30, 1991**

<table>
<thead>
<tr>
<th></th>
<th>1991</th>
<th>1990</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual dinner and dance</td>
<td>$4,124</td>
<td>$5,167</td>
</tr>
<tr>
<td>Golf and squash tournaments</td>
<td>94,216</td>
<td>91,708</td>
</tr>
<tr>
<td>Past President's dinner</td>
<td>991</td>
<td>650</td>
</tr>
<tr>
<td>10K Road Race</td>
<td>3,826</td>
<td>4,336</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td><strong>103,157</strong></td>
<td><strong>101,861</strong></td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual dinner and dance</td>
<td>5,815</td>
<td>7,385</td>
</tr>
<tr>
<td>Golf and squash tournaments</td>
<td>91,554</td>
<td>91,104</td>
</tr>
<tr>
<td>Past President’s dinner</td>
<td>1,672</td>
<td>1,576</td>
</tr>
<tr>
<td>10K Road Race</td>
<td>3,287</td>
<td>3,619</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>102,328</strong></td>
<td><strong>103,744</strong></td>
</tr>
<tr>
<td><strong>Net income (loss)</strong></td>
<td>$829</td>
<td>$(1,883)</td>
</tr>
</tbody>
</table>
Schedule 7

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

ATLAS FINANCE FUND

SCHEDULE OF OPERATIONS

YEAR ENDED NOVEMBER 30, 1991

<table>
<thead>
<tr>
<th></th>
<th>1991</th>
<th>1990</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Donations</td>
<td>$ 67,300</td>
<td>$ 127,805</td>
</tr>
<tr>
<td>Interest</td>
<td>41,933</td>
<td>29,927</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td>109,233</td>
<td>157,732</td>
</tr>
<tr>
<td>Cost of sales</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Work in progress, beginning of year</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Publication costs</td>
<td>9,479</td>
<td>-</td>
</tr>
<tr>
<td>Less: Work in progress, end of year</td>
<td>(9,479)</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total Cost of Sales</strong></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Expenses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td>1,200</td>
<td>500</td>
</tr>
<tr>
<td>Advertising and promotion</td>
<td>5,146</td>
<td>-</td>
</tr>
<tr>
<td>Bank charges</td>
<td>-</td>
<td>109</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>6,346</td>
<td>609</td>
</tr>
<tr>
<td><strong>Net Income</strong></td>
<td>102,887</td>
<td>157,123</td>
</tr>
<tr>
<td>Balance in fund, beginning of year</td>
<td>350,157</td>
<td>203,034</td>
</tr>
<tr>
<td>Transfer from operating surplus</td>
<td>9,216</td>
<td>-</td>
</tr>
<tr>
<td><strong>Balance in fund, end of year</strong></td>
<td>$ 472,260</td>
<td>$ 360,157</td>
</tr>
</tbody>
</table>
AWARDS

PRESIDENT'S AWARD (Jim MacDonald, Chairperson)

The President's Award is the highest service award presented to individuals and/or organizations for outstanding contributions to the Society. Wesley J. Waddell has been selected to receive the 1991 Award. Wesley was chairperson for the CSGP convention, Opportunities for the Nineties. This convention attracted the largest number of registered delegates in the history of the Society. It was a great technical conference and a financial winner. Mr. Waddell and his energetic committee are to be congratulated for this outstanding convention.

LINK AWARD COMMITTEE (Gerald Wendland, Chairperson; Bill Arnott, Geoff Burrowes, Drew Cadenhead, Walt Gamp, Adam Grosjean, Greg Jones, Rhea Karvonen, Sandy Laing, Mike Marshall, Richard Poirier, Bart Scott, Alan Slater, 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 1991 six papers qualified for evaluation.


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

A.D. BAILLIE AWARD COMMITTEE (Ed Klovan, Chris Le Gallais, Wes Waddell, Gerald Wendland, Rick Young)

The A.D. Baillie Award, a new award developed in 1991, is for the best oral presentation at a CSGP convention and is similar in intent to the Link Award which is made for the best presentation at a luncheon meeting. It is named in honour of A.D. (Andy) Baillie, an eminent petroleum geologist and a long time supporter of the CSGP. The terms of reference were drawn up by Klovan, Young and Wendland and approved by the Executive. Le Gallais and Waddell organized a judging panel to appraise papers presented at the 1991 CSGP Annual Convention.

The first winner of the Award is J.D. Reimer who presented the paper, co-authored with M.R. Teare, Reservoir Development and Resource Emplacement in Selected Paleozoic Carbonates of Northeastern British Columbia and Northwestern Alberta.

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

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

Four members were selected by the committee and the CSGP Executive to be the newest honorary members. They are:
Donald F. Scott, Past President of the Society.
Arthur A. Meyerhoff, a distinguished internationally renowned geologist.
John M. Andrichuk, and;
Ralph W. Eddie, partners for 40 years in the enterprise of scientifically approaching the task of finding oil and gas.
Their success and activity continues.
The CSGP now has 45 honorary members, two of whom were charter members in 1927.
No changes in the committee are anticipated for 1991-92.

STANLEY SLIPPER GOLD MEDAL (Ashton Embry, Chairperson; John Maher, Ian McIteath, Mike Hriskevich)

The Stanley Slipper Gold Medal is awarded to an explorationist who has made a significant contribution to petroleum exploration in Canada.

The committee has selected Jim Kirker as the 1991 medal winner.

R.J.W. DOUGLAS MEMORIAL MEDAL (Stephen Greer, Chairperson)

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 1991 award is Dr. Paul Hoffman, for pioneer work:
in documenting the scale and zonation of Precambrian carbonate platforms and reef complexes,
in identifying a Precambrian continental margin in northwest Canada and elucidating its tectonic evolution, and
in elaborating the Precambrian structure and tectonic development of the North American continent in terms of plate tectonics.

CSGP GRADUATE STUDENT THESIS AWARDS COMMITTEE (Christian Viala, Chairperson; Hugh Abercrombie, Kathy Aulstead, Peter Aukes, Andrew Chow, Leslie Eliuk, Stephen Greer, Dave Halwas, Antony Harbblin, Shelley Leggitt)

The role of this committee is to evaluate which M.Sc. and Ph.D. theses make the most significant contribution to Canadian sedimentary geology each year. Criteria by which these theses are judged include definition of purpose and success in reaching goals, methodology and logic of investigation, originality of topic, ideas and content, validity of interpretations and conclusions, depth and thoroughness of research and overall effort as well as organization of chapters, quality of writing and effective use of illustrations.

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 CSGP.
An advertising notice, written in both French and English, is sent every spring to all Canadian university geology 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 early December and their authors notified.

This year twelve M.Sc. and nine Ph.D. theses were submitted. The winner of the M.Sc. award was Pierre Theriault (University of Ottawa) for a thesis entitled *Synrift Sedimentation in the Upper Carboniferous Canyon Fiord Formation, SW Ellesmere Island, Canadian Arctic*. An Honorable Mention was given to Richard D. Sereda (University of Saskatchewan) for a thesis entitled *Aspects of the Sedimentology, Stratigraphy, and Diagenesis of Lower Mississippian Shelf Margin Carbonates: Souris Valley-Lodgepole Interval of the Williston Basin*. The winner of the Ph.D. award was Dr. Christopher J. Harrison (Rice University) for a thesis entitled *Melville Island’s Salt-based Fold Belt, Arctic Canada*. A short notice, with a photograph, acknowledging the achievements of the 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 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 general feel for what is done (and where) in geological research in Canada — overall, a very positive experience.

**MEDAL OF MERIT COMMITTEE** (Andy Baille, Ted Best, John Cosgrove, Ed Klovan, Dave Thomas)

The Medal of Merit is awarded annually for the best paper published during the previous year on a subject related to the petroleum geology of Canada. Most Canadian geological publications, including those of the federal and provincial surveys, and many international publications likely to contain relevant material were searched for eligible papers. From this search, an initial nine papers were selected for further examination and reviewed in detail by each member of the committee.


The committee wishes to commend the editors, S.C. O'Connell and J.S. Bell and all authors of *Geology of the Peace River Arch, Special Volume 38A, CSPG Bulletin of Canadian Petroleum Geology*. This publication is and will continue to be an important contribution to the petroleum geology of Canada.

**VOLUNTEER AWARDS** (Ed Klovan, Chairperson)

Volunteer awards are given to members or friends of the CSPG who have demonstrated significant service to the Society. Volunteer awards were made to the following persons in 1991:

- Ben Robertson — Annual Awards Dinner and Dance Committee
- Marc Oliver — Medal of Merit Chairperson
- Benoit Beauchamp — Graduate Thesis Awards Chairperson
- Kevin Mibler — One Day Field Trip Committee
- Don Stachiw — Ticket Sales Committee
- Jon Dudley — Associate Editor of the *Bulletin*
- Paul Lundegard — Associate Editor of the *Bulletin*
- Jim Lonsong — Associate Editor of the *Bulletin*
- Steve MacKo — Associate Editor of the *Bulletin*
- Clint Tippett — Associate Editor of the *Bulletin*
- Bill Gunter — Associate Editor of the *Bulletin*
- Glen Stockmal — Associate Editor of the *Bulletin*
- Doug Leroux — Squash Committee Chairperson
- Bill Mooney — Men’s Golf Committee Chairperson
- Kevin Root — Structural Division Chairperson
- Jack McManis — 50th Anniversary Fund Trustee
- Don Cook — 50th Anniversary Fund Trustee
- Clay Riddell — 50th Anniversary Fund Trustee

**SERVICE AWARDS** (Ed Klovan, Chairperson)

Service Awards are given to members or friends of the CSPG who have contributed to the welfare of the Society through committee or other volunteer work. In 1991 Service Awards were made to the following people:

- Mark Hadley — Continuing Education Committee
- John Wonfor — estabishing the Environmental Geology Division
- Pat Larlham — contributions to National Conference on Earth Sciences Committee
- Chris Buck — Chairman, Western Canada Stratigraphic Lexicon Committee
- David Work — Continuing Education Committee and organization of the Oil and Gas Forum
- Geoff Burrowes — Sedimentology Display Committee
- Chris Le Gallais — Technical Program Chairperson, Annual Convention and contributions to the Annual Awards Dinner and Dance
- Brian Doherty — Chairperson, Graduate Scholarship Awards Committee
- Brent Snyder — visiting Petroleum Geologist program
- Bill Haskett — First Chairperson, Open Golf Tournament
Greg Cave – Registration Chairperson, Annual Convention
Graeme Bloy – Continuing Education Committee
Schalk du Toit – R.J.W. Douglas Medal Committee Chairperson
Clint Tippett – Calendar Committee Chairperson, 2 years
Brian Ireland – Graduate Student Thesis Awards Committee Chairperson, 2 years
Gordon Williams – Computer Facilities Committee Chairperson, 3 years
Tony Sacheli – Honorary Address Committee Chairperson, 5 years
Kathy Lapointe – Public Affairs Committee Chairperson, 5 years
James Dolph – Reservoir/Development Geology Division First Chairperson

TRACKS AWARDS COMMITTEE (Ed Klovian, Chairperson)
Tracks awards are presented to members or friends of the CSPG who have made outstanding contributions to the Society through committee or other work.

The following people were selected for this year’s Tracks Awards:
Tako Koning – Visiting Petroleum Geologist program initiator
Ashton Embry – Stanley Slipper Award initiator
Peter Harrington – Advertising Committee Chairperson
Dieter Pfaff – 50th Anniversary Fund Chairperson
Morley Brown – innovative contributions to 1990 Annual Convention
Ian Moffat – Editor of Reservoir for 3 years
Dennis Smith – Co-editor, Memoir 16
Ray Rahmani – Co-editor, Memoir 16

UNDERGRADUATE STUDENT AWARDS COMMITTEE
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 1990/91 Undergraduate Awards were presented to the following students:
Acadia: Angus G. Robertson
Alberta: David J. Bechtel
Brandon: Ryan Hicks
British Columbia: Gary G. Johnson
Brock: Leanne Knox
Calgary: Scott R. McLellan
Carleton: Mathias Reintke
Concordia: Shirley McCuaig
Dalhousie: Steven L. Grant
Guelph: Tracy Lawrence
Manitoba: Patrick Stinson
McGill: Eva Drivet
McMaster: Jeffrey Martin Heikoop
Memorial: Janice Ledrew
Montreal: Steven Murray
Mount Allison: Susan L. Stannix
N.B., Fredericton: Chris Stanley
N.B., Saint John: Gavin Adcock
Ottawa: Andre Gonciar
Québec à Chicoutimi: Martin Perron
Queen’s: Trevor J. Ryan
Regina: Dawn Kosloski
Saskatchewan: Wayne S. Laturnas
St. Francis Xavier: Travis Pink
Saint Mary’s: Darryl A. Perrin
Toronto: Elizabeth Turner
Waterloo: Jeff Lukasik
Western Ontario: Philip A. Vicker
Windsor: Scott Durocher

REGIONAL GRADUATE SCHOLARSHIPS (Richard Thom, Chairperson; Lorne Rosenthal, Steven Peter)
The CSPG awards annually, on a regional basis, three scholarships to promote graduate studies and research in the fields of geology and marine geoscience related to the petroleum industry. The award is for $1,500 and is given to a graduate in each of three regions of Canada.

The 1991 recipients are:
Ontario/Quebec – Vladimir Benes (University of Toronto), Initial Rifting of Continental Crust, Woodlark Basin, Papua New Guinea.
Atlantic Canada – William Nickerson (Memorial University), Tectonic Evolution of the Moncton Subbasin, New Brunswick.
Western Canada – Dana Kasper (University of Saskatchewan), Bakken Formation of West-Central Saskatchewan.

In addition, the Norcen Undergraduate Award in the amount of $1,250 was awarded to Kathleen Hanan at the University of Manitoba.
BP Canada Inc. has also initiated an award for $1,250 which will be available to undergraduate or graduate geology students registered in a western Canadian university.

In April of this year, Richard Thom succeeded Brian Doherty as chairperson of the Regional Graduate Scholarship Committee.

J.B. WEBB MEMORIAL TROPHY, J.A. DOWNING MEMORIAL TROPHY AND THE CSPG TROPHY (Keith Bottrell, Chairperson)
The Canadian Society of Petroleum Geologists awards 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 with 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. A Trophy has been donated for each conference, and it is presented to the best speaker (or poster session). This trophy is engraved with the winner’s name and is kept at the winner’s university for a year, until the conference is held the following year.

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 Saskatchewan in January, 1991. This year’s winner was Kevin Andals, a graduate student at the University of Saskatchewan, who presented a paper titled Theory and Application of the Single Zircon Lead Evaporation Technique.

The J.A. Downing Memorial Trophy was presented to the best student paper presented at the Central Canada Geological Conference. The conference this year was hosted by McMaster University in Hamilton, February 27-28, 1991. The best student paper presentation at this conference was Carlos Henrique Lima Brunn of McMaster University for his talk titled, Upper Cretaceous Turbidites in the Almada Basin, Brazil: A Field Laboratory for the Study of Ancient Channel-Levee Complexes.

The 1991 Central Canada Geological Conference will be hosted by the University of Waterloo, February 19-21, 1992.

The CSPG Trophy is awarded to the best student presentation at the Atlantic University Geological Conference (A.U.G.C.), which was hosted by Saint Mary’s University, October, 1991. The best student presentation at this conference was Janice Ledrew of Memorial University for her talk titled, Vertical Stratigraphic Sequence of the Bluesky Formation in West Central Alberta and its Implications for a Depositional Model.

I am the only member for this committee and am willing to continue as committee chairperson for 1992. I have been running this committee for the last 10 years and if any one else would like to take it over please call me.

PUBLIC SERVICE

50TH ANNIVERSARY TRUST FUND, BOARD OF TRUSTEES (Ken Havard, Chairperson; Mike Cecile, Mike Hriskeyvich, Jim Kiker, Ed Klovan, Bill May) Financial Subcommittee (David Burton)

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 CSPG and its predecessor, the Alberta Society of Petroleum Geologists. The purpose of the fund was and is to support educational activities of the CSPG, particularly the Student Industry Field Trip. This year the fund decided to broaden its educational support by agreeing to fund the EdGEO program of the Canadian Geoscience Council. The EdGEO program will increase geoscience awareness across Canada by providing workshops for secondary school teachers and by public displays. The CSPG will be a major contributor to EdGEO and has instructed the fund to provide $35,000 per year for the first two years of the EdGEO program.

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 50 percent of its receipted 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 to 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.

During the past two years the Board of Trustees and our investment manager have decided to take advantage of relatively high interest rates and no risk by leaving all funds invested in T-bills and Alberta Capital Bonds.

The performance and holdings of the fund from December 1, 1990 to November 30, 1991 are summarized below. A savings account is maintained by the 50th Anniversary Fund Subcommittee 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 CSPG contributed $35,000 to the fund just prior to the year-end, accounting for the large amount of cash on hand.

**Performance**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance on Dec. 1, 1990</td>
<td>$513,384</td>
</tr>
<tr>
<td>Funds disbursed (STP and EdGEO)</td>
<td>$ 46,826</td>
</tr>
<tr>
<td>Funds contributed</td>
<td>$ 36,044</td>
</tr>
<tr>
<td>GST Rebates</td>
<td>$   1,018</td>
</tr>
<tr>
<td>Fund Earnings</td>
<td>$ 50,636</td>
</tr>
<tr>
<td>Balance on Nov. 30, 1991</td>
<td>$554,256</td>
</tr>
<tr>
<td>Growth of fund</td>
<td>9.9%</td>
</tr>
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**Holdings (November 30, 1991 Market Value)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>$ 36,957</td>
</tr>
<tr>
<td>T-bills</td>
<td>$467,299</td>
</tr>
<tr>
<td>Alberta Capital Bonds</td>
<td>$ 50,000</td>
</tr>
</tbody>
</table>

Trustees, normally three past presidents and three other members of the Society, each serve for three years. Mike Cecile and Jim Kiker will be retiring from the Board following the annual meeting of the Society. Replacements will be Jim MacDonald and Sheila Hinton by appointment of the Executive of the Society.
ARCHIVES AND HISTORY COMMITTEE (J.W. Porter, Chairperson)

The Archives and History Committee has engaged itself during the past year in research at the Glenbow Archives for photographs relating to the growth of the oil and gas industry in western Canada. A selection of the material extracted is planned to be exhibited at the forthcoming AAPG convention to be held in Calgary in June, 1992.

The proposed exhibition will list a series of pictorial episodes or "chapters" each including a preface. Captions, incorporating pertinent information will accompany each photograph. The format of the exhibition will place the chapters in chronological order commencing with late nineteenth century exploration; early twentieth century discoveries (Oil City, Bow Island, Turner Valley, Viking, Norman Wells, etc.); surface exploration (geological and geophysical); and legendary personalities including founding members of the ASPG (CSPG). A chapter will be devoted to the development of the McMurray bituminous sands. Giant oil discoveries made in Alberta following Leduc (Redwater, Pembina, Swan Hills and Rainbow) will be highlighted. The Williston Basin discovery history commencing with Daly in southwestern Manitoba and followed by Midale, Steelman and Weyburn in southeastern Saskatchewan and Dallard in southwestern Saskatchewan will be dealt with in a separate chapter.

Hopefully, the proposed exhibition will prove to be interesting as well as informative to all those in attendance and especially to the AAPG visitors from the United States. It could serve as a tribute to all past and present members of the CSPG (ASPG) for their contribution in mastering the Western Canada Sedimentary Basin, one of the major hydrocarbon producing basins in North America.

STUDENT INDUSTRY FIELD TRIP ANNUAL REPORT
(Lorraine Velic, Nirza Jesse, Co-Chairpersons; Cathy Young, Treasurer; Glenn Laros, Larry Strong, Greg Soule, Brian Ames, Greg Perris, Terry Hubensky, Mike Perkins, Jocelyn Keith and Shane Pelchaty)

This trip was established in 1977 to help students from across the country become familiar with petroleum geology and the geology of western Canada. Each year, thirty-two of the top students in the country are selected from universities offering degree programs in geology or geological engineering.

The 1991 trip was held from April 28 to May 11 and was very successful. Five days of field trips through the Alberta and British Columbia foothills and Rocky Mountains were organized. An exploration seminar involving a fictitious hydrocarbon play helped students to apply their knowledge in a semirealistic atmosphere. Many presentations and short courses were given by industry experts. There was a tour of a drilling rig near Calgary and, finally, a Rocky Mountain flyover.

The committee would like to thank field trip leaders, especially Bob Mechmech, Peter Fermor and Brian Fischer from Shell Canada. We would also like to thank The University of Calgary, Department of Geology and Geophysics, and the Housing Department. All committee members should be commended for their work in a very well organized trip.

MANPOWER COMMITTEE (Chris Steudler, Chairperson; Ken Biggs, Paul Collins, Keith Deutsch, Vincent Fera, Phil Hayes, Lloyd Kuzmyn, Mark Lenson, 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 1991 report, published in the November Reservoir, reflected the general downsizing, merger-oriented trend within the Canadian petroleum industry.

Chris Steudler has decided to step down and will be approaching other committee members to consider chairing the group. The paper and computer files have been reorganized and prepared for a new incoming chairperson. Chris has served eight years on the committee, the last four as chairperson. Phil Hayes has also resigned, having served six years.

CONVENTIONS AND SEMINARS

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

The 1991 Annual Convention of the Canadian Society of Petroleum Geologists was held June 16-19, 1991 at the Calgary Convention Centre. It was probably the most successful stand-alone CSPG convention ever held, from the standpoint of attendance, financial returns, sponsorship levels and Icebreaker Party. Most of our "problems" as an Organizing Committee were caused by our successes, or underestimated levels of interest. Total registration was 1901 paid registration was 1878. Icebreaker Party attendance was approximately 1500: and net profit for the Society was $149,000. These numbers are all-time records for a stand-alone CSPG convention.

The theme of the convention, Opportunities For The Nineties, was chosen to reflect that, despite the downturn, our industry is still viable and able to employ thousands of our members. As often happens, circumstances changed dramatically and 1991 saw the oil and gas industry in western Canada head into a severe down cycle, marked by layoffs, falling natural gas prices, a slump in drilling and war in the Middle East. Thus, the Organizing Committee was pleasantly surprised (astonished may be a better word) at the attendance.

The technical program included technical papers, poster sessions, field trips, short courses and a convention luncheon.
There were 17 oral sessions, including an opening Plenary Session, involving 100 technical papers. Topics were varied and covered a wide technical spectrum. The environment played a large role in this year's technical program, with two full sessions.

The opening Plenary Session featured Don Stacy, Amoco Canada; Chuck Shultz, Gulf Canada; Daryl Birnie, Mark Resources; and Fred Coles, Coles Gilbert Associates Ltd. Topics covered included rationalization and divestiture, international exploration, western Canada's future as a petroleum province and a look at future gas markets.

Despite a downpour the morning of the Plenary Session, it was well-attended. Provocative in content, it generated a good deal of attention from the media.

A convention luncheon was scheduled for Monday, June 17. Ian Maycock, Vice-President, International Exploration for Hunt Oil Company in Dallas, addressed the luncheon on his experiences over the years in international exploration. A total of 359 tickets were sold, and Ian was so entertaining it was a shame more could not have heard his presentation.

The Exhibits Hall hosted 54 exhibitors and all the poster papers which were displayed during the three days of the convention.

The main reasons for the success of the convention were the imagination, talents and dedication of the individuals on the Organizing Committee. I am deeply grateful to each one of them for their ideas and many hours of hard work.

Particularly helpful were Shaun Ragan of Husky Oil Operations and Sandy Chambers, a homemaker and ex-Pacific Petroleums staffer, who spent countless hours registering delegates to the convention.

Many others were involved, whose willing assistance helped make the show a successful venture.

Thanks go to Ed Klowan, President and Past President of the Society during the planning cycle, who acted as liaison with the Executive Committee. Rick Young, Chairman of the 1990 Convention, Basin Perspectives, was a source of much sound advice and encouragement, particularly during the early stages of the planning cycle.

Corporate support for the convention is gratefully acknowledged. This took several forms, including work time of volunteers, free technical and stereographic services, and cash donations.

1992 ANNUAL CONVENTION: ENVIRONMENTS OF EXPLORATION, AAPG/CSPG JUNE 21-24, 1992 (George Eynon, General Chairperson; Gerry Macey, General Vice-Chairperson)

Gerry Macey and I have the privilege of being able to say "Welcome back to Calgary!" in our opening comments in the forthcoming Convention Announcement. It's not often that we in the CSPG have the opportunity to greet the AAPG convention delegates in that fashion. In fact, we have hosted the AAPG only three times — in 1972, 1982 and, now again, 1992!

We are particularly proud this year, as Calgarians and especially as Canadians, since 1992 is the 150th anniversary of the Geological Survey of Canada. Incidentally, that makes it considerably older than even the USGS. All the members of our Convention Societies — CSPG, AAPG and the SEPM — join with us in saluting the GSC in this auspicious commemorative year.

The unifying theme — Environments of Exploration — of this year's convention has been carefully chosen to allow for and highlight a wide variety of technical and social aspects. The emergence of "the environment" as a high-profile concern is of great importance to our societies' members, many of whom were 1960's campus radicals and are now in positions of influence, or are younger, socially aware professionals. This is reflected in the formation of the CSPG's Environmental Geology Group and in the upcoming inauguration of the AAPG's own Environmental Geology Division planned for their business meeting in Calgary on June 21, 1992, the opening day of the convention.

The involvement with environmental issues, of Calgary and its citizens, both within "the oilpatch" and beyond, is strong. Our former mayor is, of course, the current Minister of the Environment for the province. I know that you expose an environmentalist of some sort every time you scratch the surface of any of Calgary's skiing-hiking-fishing-golfing or just plain mountain loving geological fraternity.

Calgary has undergone much change since the AAPG delegates were last here and we have much to show them. Probably the most important change, as far as the out-of-town delegates are concerned, is the planned convention use of the LRT. AAPG delegates are used to being pampered somewhat at other venues with shuttle buses for their every need. Well, this is Calgary, with a public transportation system the like of which does not exist in most U.S. cities. The CSPG is hosting the convention and we are going to do something about the environment: delegates will be using the LRT to get to and from many of their hotels, the ERCB and the Stampede Grounds.

Your Organizing Committee, together with the dozens of local volunteers and the very able AAPG Tulsa office staff, has planned some of the tried and true elements of the past conventions, incorporated some of the successful new ideas from Dallas '91, added some innovative ideas of their own and blended it all with aspects unique to Calgary to put on a great convention.

There will, of course, be the usual high quality of oral and poster technical presentations, the myriad of business meetings and a plethora of alumni parties. The quality and variety of Technical Sessions, and the depth into which our conferences are able to go on a particular topic, as always depend on you, the members' response to the call for papers. Despite the uncertainties of the continental marketplace for natural gas and its effects on the economic health of the industry, we have had an overwhelming response, over 1000 abstracts for 600 slots. You will not be disappointed with the Technical Sessions!
Following Dallas' lead we have continued the flared-booth format for the posters, the international flavour of the meeting, the "Deal Room" and the Golf Tournament. (We have already told the Texans that this one, at Kananskis, will be bigger and better than theirs). We have added some unique ideas of our own, too. One of the technical sessions will be an exciting classic-style debate on the Nature of the Cretaceous-Tertiary Boundary. Several of the Field Trips, Short Courses and Poster Sessions will take advantage of the industry-pioneering ERCB Core Research Facility.

With the oversized lab we call "The Mountains" on our doorstep, convention registrants will have a rare opportunity to see, in situ, the rocks that drive our business. This is something we locals often take too much for granted, but which all AAPG friends look forward to when coming to Calgary. The Field Trips program will take full advantage of "The Rockies", and there will be much more besides: tarsands outcrops and an open pit mine; the Royal Tyrrell Museum; a hazardous waste disposal site; Arctic geology; massive Bay of Fundy tidal bores; and the classic Burgess Shale mention a but a few.

Calgary has changed since 1982. It is now much more cosmopolitan and sophisticated, but not the city, with its western flavour and "cowtown" touch, still retains its roots. The Entertainment Committee is providing the traditional-style Calgary with an evening at Heritage Park and stampede breakfasts each day. The cosmopolitan side of Calgary will be seen with live theatrical entertainment (including The Phantom of the Opera - register early for tickets), access to ethnic restaurants, the symphony orchestra, Winter Olympic sites, etc.

We will have lots to show off and we still need your help. There are many jobs, both small and large, that need to be done in preparation and on the days of the convention itself. Companies are making their summer students available for all three days; let's see what the rest of us as individuals can get involved in. Please call Richard Chisholm, our Convention Volunteer Coordinator, at Sugar Creek Oil & Gas (262-5250). Thank you.

1993 ANNUAL CONVENTION - CARBONIFEROUS TO JURASSIC PANGEA: A GLOBAL VIEW OF ENVIRONMENTS AND RESOURCES (Benoit Beauchamp, Ashton Embry, Chairpersons; Graham Davies, Peter Aukes, Christian Viau, Ian Moffat, Clarence Campbell, Jim Barclay, Charles Henderson, Technical Program; Peter Putnam, Field Trips; Hans Speelman, Publicity; John Utting, Grants; Sylvie Pinard, Treasurer; Elspeth Snow, Registration; Mike Dawson, Entertainment)

The 1993 CSGP Convention will be held August 10-15, 1993 at the Calgary Convention Centre. It will be cosponsored by the Global Sedimentary Geology Program (GSGP) and will focus on Carboniferous (Mississippian-Pennsylvanian) to Jurassic environments and resources. In recent years, CSGP conventions and other gatherings have, understandably, focused mostly on Devonian and Cretaceous deposits. The time has come for a CSGP Convention that will cover the intervening Carboniferous to Jurassic interval, for which there is a genuine interest in the oil patch, as shown by a wide range of exploration efforts in recent years. The various committees are currently being put together; volunteers are welcome to join.

For this convention, the CSGP will join with the Global Sedimentary Geology Program (GSGP; Robert Ginsburg, Chairperson). GSGP is a Commission of the International Union of Geological Sciences (IUGS). Its mandate is to extend our understanding of the history of the earth through global scale research on sediments and sedimentary rocks and their contained organisms and remains. One of GSGP's major goals is to improve our ability to find, produce and husband natural resources in sedimentary deposits. The newest GSGP project, the Pangaea Project, will look at the Carboniferous to Jurassic global sedimentary record, that is the time when the super-continent Pangaea was assembled, existed and finally started to break up. Significant hydrocarbons accumulated during that period, forming some of the largest oil and gas producing structures of the world. Important reserves of Carboniferous to Jurassic phasphorite, coal and potash are also known to occur in various sedimentary basins. Carboniferous to Jurassic environments were, in many ways, unique and existed at a time of important perturbations in the biosphere and atmosphere. This is indicated by at least two major mass extinctions, by unprecedented minima and maxima in the ocean geochemistry, and by an overall icehouse climatic setting that led to one of the most extensive glaciations of the earth's history.

At a time when the world is becoming one big village, and at a time when many companies are seeking new exploration frontiers abroad and overseas, the 1993 CSGP Convention will provide a forum for a wide variety of presentations dealing with both environmental and economic aspects. Using the Mississippian to Jurassic pre-, syn- and post-assemblage history of Pangaea as a thematic background, the convention will bring together keynote speakers dealing with the big global picture or presenting classic case histories from the Jurassic Smackover Formation to the Permian reef plays of the Ural Mountains, to western Canada researchers and explorationists presenting their equally fascinating ideas and plays, from the Mississippian Pekisko Formation to the Jurassic Nordegg Formation. This mixture of global and local geology will provide attendees with new ways to address specific problems and enable them to place their research and exploitation into a new exciting perspective: the global perspective.

SCIENTIFIC PROGRAMS

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

This committee is responsible for making arrangements for presentations by representatives of the CSGP to the Earth Science Departments of Canadian universities. This includes the Link Award tour and the Visiting Lecturer tours.
This past year, Dr. Steve Creaney (Esso Resources Canada Ltd.), as part of his Link Award (1989), toured the universities of Manitoba, Brandon, Regina, Saskatchewan and Alberta in February, 1991. Dr. Creaney presented his Link Award winning talk (coauthored by Dr. Jim Allan, also from Esso Resources Canada Ltd.) entitled Oil Generation and Migration in the Western Canada Basin.

Dr. Jim Wood (1990 Link Award winner) toured the universities of Memorial, St. Mary's, Acadia, St. Francis Xavier and New Brunswick. Dr. Wood's Link Award winning talk was entitled Traps Associated with Paleovalleys and Interfluves in Unconformity Bounded Sequences: Glaucophitic Member, Southern Alberta.

We want to thank Petro-Canada for sponsoring this tour.

Dr. Wood had planned to present his talk to the universities of Concordia, Queens, Toronto, Laurentian and Lakehead in November but had to cancel after accepting a position with Core Laboratories International Ltd. in Abu Dhabi. We wish Dr. Wood all the best in his new endeavours. We also apologize to those universities for any inconvenience this cancellation may have created.

Mr. Hugh Munroe (International Geoscience Consulting Ltd.) presented his talk entitled Reservoir Quality and Architecture of Tidal Inlet Sandstone, Halfway Formation, Northeastern British Columbia to the universities of Windsor, McMaster, Western Ontario, Waterloo and Brock in October, 1991.

The committee wishes to thank the speakers for their time and effort which makes these tours such a success.

Plans are in progress for Mr. Munroe to tour the universities of Manitoba, Brandon, Regina, Saskatchewan and British Columbia in February, 1992.

Since the committee's inception, our speakers have made 330 presentations to Canadian universities. In an effort to maintain this level of activity the committee needs new volunteers to search out and work with future speakers. Please contact M. Chambers at Dekalb Energy Canada Ltd. for additional information.

ONE DAY FIELD TRIP (Don Rogowski, Chairperson; Chuck Buckley, Brad Maynes)

The committee organized four field trips in the 1991 season. Due to the incredible response, there were two trips to the Burgess Shale deposits on Mount Wapta near Field, B.C. Other trips were the Dinosaur Provincial Park and Comrey Sandstone field trips.

The field trips to the world famous Burgess Shale deposits were held on August 19th and September 22nd. The trips were led by Rosemary Powers and Eric Langshaw who have conducted numerous trips to the Mount Wapta Walcott Quarry in the past and have provided insights about the man who discovered the quarry, Dr. Walcott, and the numerous multicellular organisms housed in these shales. In addition, during the August trip, scientists from the Royal Ontario Museum were working the quarry and provided additional information. Several specimen of the intricate organisms contained in this deposit were observed.

The Dinosaur Provincial Park field trip on July 20th was led by Dr. Dave Eberth of the Royal Tyrell Museum. This trip which has been run several times in the past was again well-received. In addition to providing insight into his research regarding dinosaurs and paleoecology, Dave contributed his views on the sedimentology of the Judith River Formation.

The Comrey Sandstone field trip was a two-day trip held on September 14th and 15th. Dr. Len Hills of The University of Calgary led this trip which looked at outliers of the Foremost and Oldman formations along the Milk River in southeastern Alberta. Special attention was paid to the Comrei Sandstone member of the Oldman formation. Excellent exposures of a late Cretaceous deltaic complex were observed and insight into the sedimentology of the Foremost and Oldman formations was provided.

Field trips planned for the 1992 season include another trip to the Burgess Shale deposits on Mount Wapta and a trip to the Turner Valley area to observe the structure of the triangle zone.

Kevin Milner who was co-chairperson of the committee in 1990 resigned at the beginning of this year due to other commitments and was replaced by Chuck Buckley and Brad Maynes.

TECHNICAL PROGRAM COMMITTEE (Don Stachiw/George Benns, Chairperson; Louis Girard, Ticket Sales Coordinator; Shane Pelechaty, Treasurer; Sandy Denton/Greg McTavish, Projectionists; Laurie Slezak/Fernando Gagino, Speaker Thanskers Arranger)

The Technical Program Committee for 1991 held a total of 18 noon luncheon talks between January and November with an additional one scheduled for December. A wide variety of topics were emphasized, ranging from presentations on the ever popular Western Canada Sedimentary Basin stratigraphy to other Canadian and worldwide geological subjects. Timely topics included such items as coalbed methane, sequence stratigraphy and multidisciplinary approaches to field development. AAPG distinguished lecturers continue to be a mainstay and a joint talk was presented with the Canadian Well Log Society (CWLS) to open the Fall 1991 session. Hearty congratulations to all of the speakers for a job well done, and many thanks for the volunteer efforts of several individuals, without which the Technical Program Committee could not exist.

Attendance at this year's luncheons remained strong, averaging 856. The committee is grateful for the outstanding support of society members and their companies.

The Technical Program Committee would like to acknowledge the assistance of the CSPG office in ticket sales and organization. Many thanks to the ticket sales volunteers and their companies, for it is through their efforts that the 1991 program has been successful. We would also like to acknowledge Chevron Canada Resources, who provides a great deal of logistical and financial support for the committee.
The 1991 CSGP Noon Luncheons are listed below, followed by attendance in parentheses:


Mar. 27  Peter E. Putnam, Susan Moore and Shawna L. Christensen, Petrel Robertson Ltd.: The Bow Island and Viking Formations of Southwestern Alberta: A Comparative Assessment of Two Deep Basin Gas Reservoirs. (1000)

Apr. 11  John L. Chipperfield, Sproule Associates Ltd.: An Overview of the Stratigraphy and Hydrocarbon Distribution Within Middle and Lower Mannville Sands - Provost Area, Alberta. (1000)

Apr. 22  Christopher C. Barton, USGS, Denver, Colorado, AAPG Distinguished Lecturer: Fractal Geometry and Chaos Theory: Their Application in the Earth Sciences. (823)

May. 8  Lynden A. Penner, J.D. Mollard & Associates Limited: Exploiting Tectonic Hierarchy Through Correlating Remotely Sensed Imagery Data With Multiple Geoscience Datasets. (780)

May. 14  N.A. Cleland, J.D. Carlson, Sproule Associates Ltd. and I.F. Taylor, ECL Petroleum Technologies Limited: A Forecast of Western Canadian Gas Supply and Demand. (780)

Jun. 11  David P. James, Henry W. Posamentier, Esso Resources Canada Limited: Variations of the Sequence Stratigraphic Model: Past Concepts, Present Understandings and Future Directions. ()


Sep. 26  John Malpas, Memorial University of Newfoundland: Ocean Drilling Programme. (531)


Nov. 18  G.E. Reinson et al., ISPG: Devonian Gas Reserves of Western Canada Sedimentary Basin – Play Definition and Resource Assessment. (934)

Nov. 28  Iain D. Muir, Esso Resources Canada Limited and Jeffrey J. Dravis, Dravis Interests Inc., Houston, Texas: Burial Porosity Development in Middle Devonian Keg River Reservoirs. ()

Dec. 11  Kerry A. Hegarty et al., Geotrack International: Apatite Fission Track Analysis and Its Application in Oil Exploration. ()

Changes in the committee include the following: George Bena has taken over for Don Stachiw as chairperson and Fernando Gaggio has taken over for Laurie Slezak as speaker thankarager.

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

The goal of the Visiting Petroleum Geologist (VPG) Committee is to organize and carry out 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 administrators.

The VPG Program is a relatively new CSGP program and the first tour was carried out in 1989 by Peter Meehan, Husky, Oil, who presented Anauigak – From Discovery to Deleination to six universities. In 1990, Ken Drummond, Mobil Oil Canada, visited five universities and presented The Geology of Venture, A Geopressed Gas Field, Offshore Nova Scotia. In October and November, 1991, the VPG tour was carried out by Tim Marchao, who presented Chasing Upper Devonian Reefs in the Western Canada Basin to Memorial University, the University of British Columbia and the University of Saskatchewan, and by Patricia Cucman who presented Integrated Mapping of the Thrusted Cardium in the Alberta Foothills to the University of Alberta, The University of Calgary and Queen’s University. Both of the 1991 VPG tour presenters are with Amoco Canada Petroleum Company Ltd.

The universities were very appreciative of the willingness of a petroleum professional to visit their campuses and provide them
with a petroleum geology presentation and an update on the industry. The VPG Committee extends a hand of appreciation to Patricia Cucman and Tim Marchant for carrying out the 1991 VPG tour. Thanks also to Amoco Canada Petroleum Company Ltd. for covering all travel and accommodation expenses associated with the tour. Planning is underway for a VPG tour in the fall semester of 1992.

SEDIMENTOLOGY DISPLAY COMMITTEE (Michael Breiteneder, Chairperson; George Pastirik, Logistics; Geoff Burrowes, Carbonate Core Display; John Corkery, Leslie Etuk, Ken Potma, Brian Pratt, Malcolm Simpson, Kevin Stromquist, Nigel Watts, Technical Display)

The mandate for this committee is to continue a technical liaison between the CSPG and post-secondary educational institutions by creating technical displays for touring across the country.

The existing Oil Sands of Alberta exhibit is once again on a swing through northern Canada and this year will visit McMaster, Montreal, McGill, Windsor, Laurentian, Waterloo, Carleton, and Ottawa.

Joining this exhibit is the recently completed CSPG-Gulf Canada Carbonate Core Display. This display consists of eight trays of hand and core samples representing the various facies, textures, fossils and diagenetic features represented in carbonate rocks, as well as a schematic cross-section of the ideal reef profile. This display is on the same tour schedule as the Oil Sands display and will be available as a teaching tool as availability permits.

Construction of the final project, the stand-up exhibit entitled Carbonate Buildups of Canada Through Time, is still underway and awaits further technical compilation and editorial review.

HONORARY ADDRESS (Randy Maksymovich, Chairperson; Karen Hall, Bob Kuchinski, Curtis Everet, Brent Campbell, Sandra Dey (nee Larson), Howard MacKay, Jim Sparling, Steve Kirtos)

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 which is of public interest. This event is offered as a community service and is run on a nonprofit basis. This year’s talk, A Modern Dinosaur Gold Rush, was given by Dr. Robert Bakker, considered one of the world's foremost dinosaur experts. Dr. Bakker, author of the book, Dinosaur Heresies, is one of the most colourful and controversial researchers on the subject of dinosaurs. His style and manner were perfectly suited for the diverse audience present.

The event, held on November 27, was attended by over 1300 persons and proved to reinforce the tradition of excellence in entertainment and education for which the Address has become associated. Dr. Bakker, who is also an accomplished dinosaur artist, started the evening with an informal discussion and sketch session for children only. During this time Dr. Bakker asked children to identify various dinosaurs and answer questions about each dinosaur. The child answering the question correctly was rewarded with one of Dr. Bakker’s original sketches. The sketch session was followed by a visually entertaining slide show which illustrated Dr. Bakker’s contention that dinosaurian ancestors are still amongst us today in the form of birds. Dr. Bakker made the point that dinosaurs may have been brightly coloured, fast moving, family-oriented creatures which communicated with song-like vocalizations. As well, they may have evolved quite quickly and with far more diversity than their oft compared relatives, the reptile family. These are all thoughts which were first proposed in the 1800's but which have only come back into vogue since the late 60's. Acceptance of these ideas have been slow and Dr. Bakker has been a leader in their advancement.

This year’s event was cosponsored by the Calgary Zoo and The Royal Tyrrell Museum of Paleontology. Without the cosponsorship of these organizations it would be difficult for the society to attract a speaker of Dr. Bakker’s calibre.

This year’s event was again highlighted by corporate cosponsorship of student tickets. This allowed almost 500 enthusiastic students to attend free of charge. The success of this sponsorship program over the past two years will hopefully lead to its becoming an annual feature.

While Dr. Bakker was in southern Alberta, he took the opportunity to travel to Drumheller to discuss and review new findings with his counterparts at the world famous Royal Tyrrell Museum of Paleontology. He also gave an evening presentation on November 26 at the Calgary Zoo’s new Discovery Centre.

Congratulations to all committee members for their dedication and hard work over the past twelve months. It has been a tough year for our membership, but they should all take pride in their accomplishment. The CSPG in particular, and the petroleum industry in general, gain a tremendous benefit through community exposure, a direct result of this committee’s activities. Planning for next year’s (1992) Honorary Address will soon begin. Any new volunteers wishing to join the committee are welcome to do so. As well, suggestions for next year’s talk are welcome and can be communicated to any of the committee members.

STRATIGRAPHIC NOMENCLATURE (Ashton Embry, Chairperson; Jim Barclay, Wayne Breda, Bob Greggs, Tim Marchant, Ed Niewinski, Tony Tankard, Ed Wright)

One paper was reviewed by the committee in the past year and recommendations for improvement were given to the Bulletin editor.

CONTINUING EDUCATION COMMITTEE (Glen Squires, Chairperson; Virginia Trapnell, Treasurer; Graeme Bloy, David Work, Ailtea Lincoln, Maggie Kasckende, George Pastirik, Dianne Leonardt, Bob Millsapagh (AAPG), Cheryl Wright, Anne Savannah)
The Continuing Education Committee ran five courses, which were attended primarily by employed CSPG members. The courses listed are accompanied by the unaudited gross and net revenue figures.

**Oil & Gas Forum**, by Rick Hilliard, William Marriot, Sheldon Steeves, Roger Brundrit, Paul Benson, Randy Pawliw and Jim Swiss. (Attendance 60); 03/21/91; $1682.24/$1172.85.

**Analysis of Structure, Stratigraphy and Fractures From Well Logs**, by Ross Cain. (Attendance 8); 04/8-11/91; $4450/$1076.25.

**Global Patterns of Petroleum Occurrence and Exploration Strategies**, by A.D. Baliffie. (Attendance 10); 04/15-19/91; $3600/$415.22.

**Evaluation and Risk Analysis of Canadian Oil & Gas Properties**, by Sproule Associates Limited. (Attendance 22); 05/6-10/91; $15,445.10/$407.03.

**Petroleum Exploration in Fold and Thrust Belts**, by Peter Jones. (Attendance 16); 05/13-14/91; $5754.30/$2017.40.

Totals: $30,931.64/$5,088.75.

An advanced log analysis course was scheduled but subsequently cancelled due to lack of participants. Most of the courses had marginal attendance, which resulted in a relatively low net to gross revenue ratio.

Courses planned for the coming year include the evaluation course by Sproule and the structural geology course by Peter Jones. In accord with responses to our questionnaire, a course on computer applications for geologists is scheduled for March. An Oil & Gas Forum is scheduled for the fall. Its subject matter has not been finalized. We will attempt to make it relevant to a majority of the membership. Special thanks are due to Mobil Oil Canada and Al Jenik for their support of this past Forum. Thanks also to the speakers, who donated their services.

More detailed information regarding the committee’s course agenda can be found in the January Reservoir, and is also available for pickup at the CSPG office.

Cheryl Wright and Anne Savannah retired from the committee in the spring. George Pastirik joined our team at that time.

**TECHNICAL DIVISIONS**

**HYDROGEOLOGY DIVISION** (Kaush Rakshit, Chairperson; Ken J. Hugo, Vice-Chairperson)

The Hydrogeology Division is a forum for the discussion and presentation of hydrogeological and hydrochemical methods as applied to the petroleum and environmental industries. We extend our thanks to Mobil Oil Canada for providing the meeting room and refreshments.

Due to a lack of appropriate lecturers there was only one noon-time lecture held by the hydrogeology division during 1991.


For 1992 we plan a number of seminars to revitalize the division. We welcome all interested parties to attend or present their work at our noon-time seminars.

**GEOMATHEMATICS AND COMPUTER APPLICATIONS DIVISION** (Roy Beneteau, Chairperson; John Robinson, Vice-Chairperson/COGS Liaison; Paul Price, Program Director; Jim Waters, Secretary-Treasurer; Michael Marchand, Post Chairperson/Liaison with URISA)

During 1991, the primary focus of the division was the presentation of noon-hour technical talks. The division initiated 9 talks as well as cosponsoring 4 talks with the Calgary Chapter of the Computer Oriented Geological Society (COGS). In addition, the division acting on the COGS's behalf cosponsored the URISA (Urban and Regional Information Association) Alberta Chapter's workshop and conference on November 25, 26 and 27 entitled GIS and Energy.

The lunchtime talks the division organized and/or jointly held with COGS during the past year were as follows:


Feb. 6    Dr. Harvey S. Price (Zycor Inc.): Determining Where to Drill Horizontal Wells.


Apr. 17   Dr. Robert R. Stewart (The University of Calgary): Fuzziness and Fractals: New Ways to Interpret Geology.


Oct. 24   Dr. Ian Cain (The University of Calgary): From GIS to Spatial Decision Support Systems.

Nov. 12   Barry McNamara (The University of Calgary): Geostatistics and Estimation of Average Permeability.

Dec. 3    Dr. Dave Elliot (Geosil Consulting): Uncertainty in the Estimation of Oil and Gas Reserves.


**PETROLOGY DIVISION** (Jon S. Dudley, Chairperson)

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

During the past eight years, evening talks have been 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 have been encouraged in order to accommodate the overlap in interests between divisions.
There has been a hiatus in this division's activities during 1991. Generally, changing job circumstances have preoccupied much of the active membership. In addition, dwindling attendance at the evening sessions indicated that the operation of the division needed to be reviewed. Discussions among members have resulted in a decision to move winter talks from evenings to noon hours at a downtown location and perhaps consider some thematic sessions. The division is currently looking for a downtown venue and hopes to resume hosting talks in 1992.

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

The International Division holds monthly lunchtime meetings on the petroleum geology of areas outside North America. Attendance at the talks in 1991 varied from 45 to 85 people. Talks were held in the Mobil Oil building, second floor auditoriums. 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 1991 are listed below:

Jan. 23 Dr. C. Grujenschi (Consultant): Salt Structures - New Plays Below Horizontal Salt Bodies Worldwide Examples.


Mar. 7 M. Griffin (Consultant): Sub-Andean Foothills South Bolivia: Geology and Recent Petroleum Activity.


Apr. 18 C. Rubens (Norcen): Jabiru Field, NW Australia: A Case Study.


May 23 M. Bradshaw and T. Powell BMr. (Geol. & Geophys. Australia): Australian Petroleum Systems.

Jun. 5 P. Bower (Consultant): Exploration in the Worcester Graben, Onshore, UK.

Jul./Aug. No Talks


Oct. 17 B. Farion (Consultant): Overview of the Amal Oil Field, A Giant Class Field, Libya.

Nov. 14 J. Lentini (Consultant): Exploration in Western Siberia.


ENVIRONMENTAL GEOLOGY DIVISION (J.R. Century, Chairperson; Anthony Berger, David Elliot, Paul Fuennling, Darcie Greggs, Rory Hankel, Gordon Iones, John Wonsor - Steering Committee)

The Environmental Geology Division enjoyed an active second year of programs and initiatives during 1991. The following are the monthly technical meetings held over the past 12 months:


Apr. 18 Dr. Allan Legge: Changing Chemistry of the Atmosphere - Issues and Concerns.

May 16 J.R. Century: Structural Controls on Coalbed Methane in the San Juan and Western Canada Sedimentary Basins.


Sep. 25 Dr. Robert Greggs: Environmental Applications of Basement Tectonics.

Oct. 9 Harry Lillo: The Challenge of Environmental Protection.

Nov. 21 John Rustling: Resource Development and Multiple Land Use.

Dec. 20 Dr. Grant Mossop: Directions for the Institute of Sedimentary and Petroleum Geology. Second Annual Holiday Season Luncheon Social.

The first Environmental Geology Oral Sessions were successfully presented on June 18, during the 1991 CSPG Annual Convention in Calgary. Eleven papers were delivered at the oral sessions and six papers are being prepared, reviewed and edited for future publication in the Bulletin of Canadian Petroleum Geology.

Preparations for the 1992 AAPG/CSPG Annual Convention in Calgary, June 21-24, have been given considerable attention. The Environmental Geology Division is cohosting two Oral Sessions and a Poster Session titled: Exploration in Environmentally Sensitive Areas and Environmental Issues and Opportunities.

SEDIMENTOLOGY DIVISION (Gary P. Smith, Chairperson; Peter G. Aukes, Rhca L. Karvonen)

The Division continued its monthly lecture program at noon, courtesy of Norcen Energy, who provided the meeting room and projection facilities. Geosania (Manager; Steven Ancel) is now generously donating gifts to be presented to the Sedimentology Division speakers.
Seven meetings were held in 1991. Average attendance was up from past years to 61. This is felt to be due to the timely and topical nature of the subject matter presented and to the fact that we started publicizing the talks at CSPG luncheons.

The speakers and talks were as follows:

Dec. 13 J. Weissenberger (Esso): Devonian Carbonate Sequence Evolution of Western Canada.

Jan. 24 D.G. Smith (Canadian Hunter): The Paleogeographic Evolution of the Western Canada Foreland Basin.


Mar. 21 S. Peleurhay (Chevron): Paleokarst and Associated Valley-fill Sedimentary Rocks, NWT.


May 22 P.E. Fejer (Shell): Controls on Carbonate Deposition and Packaging Upper Devonian, Southeast BC.


A full slate of lunchtime speakers is planned for 1992, including one or two informal field trips.

Rhea L. Karvonen will be the new chairperson for 1992, and Chuck Buckley (Rife Resources) will be joining the Division executive in 1992.

PALEONTOLOGY DIVISION (Thomas Demchuk, 1991 Chairperson (outgoing); Charles Henderson, 1992 Chairperson (incoming); Bert G.T. van Helden, Committee Member)

Similar to previous years, the Paleontology Division continued with the tradition of noonhour seminars covering many diverse and interesting topics. Despite the climate in downtown Calgary, there is a clear interest in paleontologically related activities, as evidenced by good attendance at these seminars and excellent response to paleontological activities. This year’s field trip held at Dinosaur Provincial Park garnered 23 attendees, thanks to the fine preparation of the staff at the Royal Tyrrell Museum of Palaeontology. The year was capped by the traditional business meeting held in the friendly atmosphere of the Elephant and Castle Pub.

For the year 1992, Charles Henderson (The University of Calgary) will be assuming the duties of chairperson. Bert G.T. van Helden will remain as committee member coordinating the fine seminar facilities. The Paleo-Division and CSPG wish to thank Bert and Chevron Canada Resources for their continued support of these activities.

The seminars for the 1991 year were as follows:


Feb. 21 R.A. McLean (Amoco Canada): Rugose Coral Biostratigraphy of Frasnian (Upper Devonian) Outcrop Sequences of Western Canada.


Apr. 18 B. Britt (Royal Tyrrell Museum): The Significance of Air-filled Bones in Dinosaurs, Birds and Pterosaurs.


Oct. 10 K. Nunez-Betelu (The University of Calgary): Palynology of the Kanguk Formation (Late Cretaceous), Remus Creek, Ellesmere Island, Canadian Arctic Archipelago.


For the upcoming year, there are no foreseeable changes to the format of the seminar series.

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

The Coal and Coalbed Methane Division presented and cosponsored a variety of technical events this year, all of which were very well attended. Firstly, in March, our division led a social field trip for division members, namely a Brewery Tour and Beer Tasting at Big Rock Breweries in Calgary. In May, we cosponsored, with the Environmental Geology Division, a presentation by Jack Century, J.R. Century Petroleum Consultants Ltd., Structural Control on Coalbed Methane in the San Juan and Western Canada Sedimentary Basins. The Coal and Coalbed Methane Division, together with the Calgary Branch of the Canadian Institute of Mining and Metallurgy, cosponsored their June technical luncheon. Steve Forgeron, Cape Breton Development Corporation, presented Cape Breton’s Submarine Coal Resources: Effects of Geology on Mining and Methods of Exploration. September saw our division lead a coalbed methane field trip to the Elk River coal field in southeastern B.C. In October, our final technical event for 1991 was a noontime presentation and poster display by Dave Johnson, LAS Energy Associates Ltd., Coalbed Methane Potential in Northeast B.C., Gates and Gething Formations.

The coal industry was saddened by the passing of Dr. Hans Bielenstein in November of this year. In his honour, the Coal and Coalbed Methane Division, along with his family and colleagues, established the Dr. Hans U. Bielenstein Memorial Book Fund to benefit the Gallagher Geology Library at The University of
Calgary. This fund will help with the purchase of books and publications specifically related to coal geology. Hans was a brilliant geologist who will be missed by all those who had the good fortune to work with him, or to learn from him.

In 1992 we hope to again lead a spring or fall field trip, as well as several new "brown bag" technical lunches.

In conclusion, I would like to thank those in the coal industry and alumni who have continued to support our division. In particular, a huge thank you goes to Manalta Coal Ltd. for covering our mailing costs and to Keith McCandlish (AMCL) and Mike Dawson (ISP) for their hard work and support. I would like to offer the new chairperson for 1992 my best wishes for a successful year.

STRUCTURAL GEOLOGY DIVISION (Larry S. Lane, Chairperson)

The Structural Geology Division meets monthly on Monday evenings at the Institute of Sedimentary and Petroleum Geology, 3303 - 33rd Street NW. Each meeting features an informal talk, presentation or slide show on a subject of interest to structural geologists. Seven presentations in 1991 were attended by 20 to 30 attentive geologists and covered topics on structural geology from around the world. The speakers and the titles of their talks are listed below:

Jan. 7 Paul Mackay: The Turner Valley Triangle Zone.
Feb. 11 James Mott: Palaeozoic White River Basin: An Exploration of the Structural and Stratigraphic Changes Within the Main Ranges and Front Ranges, Kananskis Area, Alberta.
Mar. 11 Peter Jones: Triangle Zones Around the World.
Apr. 8 Charles Ferguson: Balanced Structural Cross-section in the Arkoma Basin and Northern Ouachita Mountains, Southern Oklahoma.
May. 13 Bernie McLean and Don Cook: Intracratonic Proterozoic Deformation Under the Colville Hills, Northwest Territories.
Nov. 12 Sebastian Bell: Present-day Basin Stresses and Applications to Hydrocarbon Exploration – Examples from Canada and Europe.

Anyone interested in giving a talk or leading a field trip in 1992 should contact Larry Lane (292-7131).

RESERVOIR-DEVELOPMENT GEOLOGY DIVISION
(Darren Steffes, Chairperson; Bob Gunn, Secretary; Ron Baby, 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. Three talks were presented from December 1, 1990 to November 30, 1991 as follows:

Dec. 6 Dale Cederwall (Poco Petroleums Ltd.) and John Chipperfield (Sproule Associates Ltd.): Case History for Cardium Formation Conglomerate Reservoirs, Bigoray, Alberta.
Feb. 21 Brian Ames (Mobil Oil Canada) and Doug Loughhead (Mobil Oil Canada): Celtic Field, Saskatchewan: Geologic and Reservoir Factors Influencing Anomalous Primary Production.
Sep. 25 Barry McNamara (University of Calgary): Permeability Averaging at the Core and Larger Scales Using Whole Core and Pressure Test Data.

Additional talks are planned for 1992.

Our division chaired a full-day session on Development and Reservoir Geology at the CSPG Convention, Opportunities for the Nineties June 16-19, 1991.

A new chairperson and program coordinator were appointed in early 1991. The division greatly appreciates the efforts of past chairperson Jim Dolph, who has provided three years of exceptional leadership, and of Paul Frydl who arranged consistently good presentations for our division meetings and annual conventions.

GEOCHEMISTRY DIVISION (Jim Allan, Chairperson; Steve Creeney, Program Coordinator)

The Division activities usually focus around informal noon-hour talks which provide a forum for discussions amongst members of the geochemical community. This year has been unusually quiet amongst Division members, and only two talks were presented as follows:

Dec. 5 Cindy Reidger (U of C): Organic Geochemistry and Petrography of the Nordegg Member – Implications for Exploration Strategies.
Aug. 8 Fu Jiao (Chinese Academy of Science): A Look at Geochemical Capabilities of the National Laboratory of Organic Geochemistry of the Chinese Academy of Science.

Despite the limited response for speakers in 1991, the Division intends to persevere with its activities and already has a wider menu of talks scheduled for 1992.

LIAISON COMMITTEES

ALBERTA GEOLOGICAL SURVEY LIAISON COMMITTEE (Jim MacDonald, Chairperson)

The mandate of this committee is to make recommendations to AGS with respect to their business plans and financial budget for the forthcoming year. At meetings among AGS staff, CSPG members and representatives from industry, a number of suggestions were made. The AGS was advised to place greater emphasis on regional geologic mapping, reservoir modelling, hydrodynamics, and technical factors related to water disposal. Longer term financing should enable the AGS to budget and carry out their programs more effectively.

WORLD PETROLEUM CONGRESS LIAISON COMMITTEE (Mike Hriskevitch, Chairperson)

The 13th World Petroleum Congress took place in Buenos Aires, Argentina during October 20-25, 1991. In addition to the
Technical Program, the Congress sponsored technical and touristic excursions which were held both before and after the technical sessions. Total attendance at the Congress was about 2900, of which 122 were participants from Canada.

A total of 23 Canadians were involved in the Technical Program as session chairmen, authors of review and forecast or forum papers, panelists and poster presenters. The Canadian Committee's book exhibit consisting of 49 volumes, of which the CSPG contributed 17, was very well-received. After the Congress, the books were donated to a university at Buenos Aires.

During the course of the Congress, presentations were made by a number of countries which are interested in hosting the 1997 Congress. (The next Congress is scheduled for Norway in 1994.) Canada competed with China and Venezuela to host the 1997 Congress - China and Venezuela.

The annual meeting of the Canadian Association of the World Petroleum Congress was held in Calgary on June 27, 1991. The new executive consists of the following: Chairperson, Gerald J. Maier; First-Vice-Chairperson, Barry J. Cochrane; Second-Vice-Chairperson, James R. Barroso.

Annual fees for associate membership remain at $50 per year. The financial status of the Canadian Association remains satisfactory with a healthy surplus for future activity. A special committee chaired by Canada's G.G.L. Henderson has been charged with revising the format of the Congress in order for it to be more meaningful and productive in the current world situation. The committee presented their findings to the Executive Committee at Buenos Aires.

Dr. G.G.L. Henderson has agreed to stand for election as treasurer of the World Petroleum Congress Headquarters. He is expected to be elected by acclamation.

CSPG/CSEG/APEGGA LIAISON COMMITTEE (Roy Stuart, Chairperson; W.R. (Bill) May, Ian Halladay)

The mandate of this committee is to deal with issues of concern relating to the practices of geology and geophysics and regulated under the Engineering, Geological, and Geophysical Professions Act. Meetings of the committee are not held on a regular basis but are convened, when necessary, to deal with issues that are identified by or referred to members of the committee.

No meetings were held during 1991. The only issue dealt with concerned the definitions of the "practice of geology" and the "practice of geophysics" incorporated into the Act. This issue was handled through direct communication between individual committee members and Mr. R.L. Comer, P.Geoph., who brought the issue forward.

There were no changes in the membership of the committee in 1991.

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

Since the last annual report, the committee met in Calgary on 7-8 December 1991, and at the joint annual meeting of the GAC/MAC on 27 May 1991.

The NLC has continued to maintain an active liaison role, focusing primarily on universities across the country but, also, liaising with a variety of other geological institutions that include the Ontario Petroleum Institute, the Royal Ontario Museum, and the Atlantic Geoscience Centre and Bedford Institute of Oceanography. NLC regional activity reports from Saskatchewan and the eastern Quebec region were published during 1991 in the Reservoir. As in previous years, much of our time during meetings was spent discussing ways in which to increase the visibility of earth sciences to the general public and how to attract more students into earth sciences and more high quality applicants into graduate studies.

The CSPG's Student Industry Field Trip and the various visiting lecturers continue to be well-received, although some members have noted that it is becoming increasingly difficult at times to find suitable candidates for the SIFT. In addition, the NLC responded enthusiastically to upcoming sedimentology (poser and core) displays. The NLC strongly encourages the CSPG to keep the integrity of these programmes intact and a priority item, particularly because of their role in popularizing sedimentary and petroleum geology and for enhancing CSPG's national character.

The only committee membership change was the resignation of Derek Armstrong, who was liaison member for the Toronto area. The NLC is currently searching for a suitable replacement.

The NLC extends its appreciation to the CSPG Executive, various members of other CSPG committees, and the geoscience community in general who actively assisted in our liaison role in 1991.

APEGGA STUDENT AFFAIRS LIAISON COMMITTEE (Ron Buckley, Chairperson)

The main objective of the Student Liaison Committee is to enhance the professional development of university students currently enrolled in engineering, geology and geophysics with respect to their careers, through interaction with APEGGA and technical societies such as CSPG, CSEG, CSCHE, CWLS, CIM and EIC.

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

The purpose of these meetings is to update the student body, through their society representatives, on the various activities of the technical societies. In exchange, the technical societies are apprised of student conferences and campus activities.
The technical societies outlined their activities (such as conventions, conferences, scholarships and technical luncheons) to the student representatives and encouraged them to attend. Qualifications and eligibility for some of the technical societies' student scholarships were announced and students were encouraged to make use of these scholarships. Some of the student societies are using these industry contacts to obtain speakers for their functions.

A program, begun in 1988, of providing closer accessibility for geological and geophysical students to the CSPG monthly noon-time luncheons has continued. Unfortunately, during the past year the student body has not been making full use of this opportunity. Sponsorship of these luncheons has been graciously provided by various oil companies and administered by the Student Affairs Liaison Committee.

The committee wishes to acknowledge the generous support of the following companies for this sponsorship: Amoco Canada Petroleum Company Limited, Canadian Hunter Exploration Ltd., Canadian Occidental Petroleum Ltd., Can Tex Producing Company Ltd., Geotechnical 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 offering a geology program have been made aware of sponsored luncheons and technical talks. Students at the University of Calgary are the main beneficiaries. Tickets may be obtained from the Liaison Committee Chairperson.


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.

Each affiliated society of the AAPG, including the CSPG, is entitled to one delegate for every seventy active members of the AAPG. Delegates are elected annually by current members of the House and serve a three-year term. In 1991, the CSPG was entitled to 15 delegates. In addition to the elected delegates, our group has three alternates assigned.

During 1991, the group met on approximately a bimonthly basis. A large portion of 1991 was spent working on a survey of all international (non-U.S.) delegates in order to obtain their views on the AAPG. The attempt was to see what could be done to help the small (in comparison to the U.S. membership) international membership feel more a part of the association. Survey results show that the international membership feel that all active members of the association should have representation on the House of Delegates. Currently, only countries with affiliated societies, such as Canada, Britain and Australia, have a voice on the House. Active members in countries such as Norway, with over 100 active members in the AAPG, do not have access to express their views within the very association of which they are members.

Our group has set forth a proposal to allow world-wide representation of all active members in the House of Delegates by using the member-at-large status as outlined in the bylaws of the AAPG. For countries with more than 70 active members and regions of the world with more than 70 active members, we are proposing that the House of Delegates, with the help of the International Liaison Committee of the AAPG, assign delegates to three-year terms. We are hopeful that the proposal will be voted on by the entire House at the 1992 meeting in Calgary.

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 (GAC) take full advantage of their associated society status. The CSPG had a publication sales booth at the 1991 GAC Annual Meeting in Toronto and each society had advertising inserts for their annual meetings included in the mailings of the Reservoir and Geoscience Canada. Alice Payne, currently Vice-President of the CSPG, plans to attend a GAC council meeting in May, 1992 and John Malpas, President of the GAC, will be invited to attend a CSPG executive meeting. Points of reciprocity covered in the agreement for Associated Society status were printed in the October, 1991 issue of the Reservoir. A new chairperson for this committee, Ian Mcleath, was appointed in October, 1991.

ADVISORY COMMITTEE FOR THE NATIONAL CONFERENCE ON EARTH SCIENCE (Rand Harrison, Bill May, Co-Chairpersons; CSPG Liaison: Ron Kinney, U of A, Faculty of Extension; Pat Larlam, U of A; Faculty of Extension; Benoit Beauchamp, Leslie Eliuk, Ted Krause, Fred Trollope, Dave Smith, Peter Aukes, Gary Smith, Mike Morrison, Ed Klovans, CSPG Liaison)

This annual conference is jointly sponsored by the CSPG and the Faculty of Extension of the University of Alberta. The University of Alberta handles all advertising, registration, correspondence and logistics, and is responsible for the overall management of the conference. The Advisory Committee, which consists of CSPG members, selects the conference topic, identifies speakers and develops the agenda.

As in past years, the 1991 conference was held at the Banff Centre, where excellent lecture, accommodation and meal facilities are present. The residential atmosphere has proven most conducive to informal discussion and dialogue outside of the formal agenda activities.

The theme of the 1991 (Sept. 15-20) conference was Clastic Diagenesis in Hydrocarbon Reservoirs. Topics ranged from
diagenetic models and fluid-rock interactions, through porosity formation and clay diagenesis, to reservoir quality and case studies. Speakers were: Younis Kharaika, Mike Wilson, Jon Dudley, Reinhard Hesse, Stefan Bachu, Hugh Acerombie, Fred Longstaffe, Volkmar Schmidt, Ron Surdam, Bob Gies, Howard King, Jim Wood, Gordon Bird, Ian Hutchison, Ernie Perkins and Dan Potocki.

Original registration for the course was approximately 60, but last minute cancellations because of economic "belt-tightening" dropped the final paid registration to 42. Nevertheless, the conference remained financially viable and was considered a success by all who attended.

The 1992 conference is to be chaired by Les Eliuk (Shell Canada) and will focus on dolomite reservoirs and processes of dolomitization.

Two vacancies currently exist on the Advisory Committee: Benoit Beauchamp and Gary Smith have stepped down because of other professional obligations.

**PUBLIC AFFAIRS COMMITTEE** (Alison Hepburn, Chairperson; Kathy Lapointe, Past-Chairperson; Megan Bures, John Cox, Ken Drabinsky, Scott Gardner, Dave Halwas, Bill Haskett, Andrew Langille, Randy Maksymovich, Graham McFarlane, Bob Moffat, John Peirce, Paul Price, Blythe Slater, Stan Williams)

The mandate of the Public Affairs Committee is to provide technical assistance to the public and to promote the pursuit of scientific awareness. Providing speakers and materials to schools and special interest groups and acting as a liaison with associations whose main functions involve educating the public on aspects of the petroleum industry are the primary roles of the committee. Key aspects of the fulfillment of these roles in 1991 included membership in the Petroleum Communications Foundation (P.C.F.), the Youth Science Foundation (Y.S.F.), and the continuing support of the Canada-wide Science Fair (C.W.S.F.).

The Canada-wide Science Fair was held in May in Vancouver. Dr. Wilbert Danner of Vancouver judged and presented the CSPG awards. The CSPG sponsors two awards in the Physical Sciences division for displays that represent a petroleum or energy-related theme. The winners of one of the awards were Rachel Zimmerman and Susan O'Leary from London, Ontario for their project titled, *Clean Green Power/Voltage* Vert, which investigated how algae convert light energy into electrical energy by photosynthesis. The winner of the second award was Prakash Chaudhari from Peterborough, Ontario for his project titled, *Scrap Tires...Black Gold?* Prakash studied an efficient, environmentally-safe waste disposal method that produces oil as a by-product for various materials.

The P.C.F. (formerly the P.R.C.F. – Petroleum Resources Communication Foundation) has published the fourth edition of *Our Petroleum Challenge – in The 1990's*. They also published two backgrounders: *Natural Gas* details information from 'what is it' to pipelines, deregulation, markets, exports and effects on the environment. *Sustainable Development* tackles environmental issues and the petroleum industry.

Requests for speakers in the first half of 1991 were minimal. An article was placed in the Alberta Teachers Association News in the fall of 1991 which generated considerable interest with requests for information and speakers in the Calgary area as well as for Edmonton, Willingdon, Drayton Valley and Grande Prairie.

The Science Alberta Foundation set up the Calgary Science Hotline which is a new service for school teachers in Calgary and the Districts of Foothills and Rockyview. The Hotline maintains a database of volunteer speakers willing to speak to students on any topic. The committee became involved with the Hotline while it was being established during the summer. While all committee members were registered with the Hotline, it was decided that the Hotline database could be greatly expanded and improved through the involvement of the general CSPG membership. The committee has also been working on an Adopt-A-School Program for volunteer speakers to adopt a school at which they would like to speak. A questionnaire was distributed by the committee in conjunction with the Hotline to all Alberta resident members of the CSPG with their October edition of the *Reservoir*. Those members who volunteer will be registered with the Hotline and can then adopt a school. The committee organized four sessions of a Speaker Orientation Program in October for committee members and for volunteer students already registered with the Hotline. The sessions were conducted by Bill Haskett with help from Janis Webb of the Hotline.

During National Science and Technology Week in October, the committee sponsored a large display at the Calgary Senior High Schools Career Conference which was held at Lester B. Pearson High School.

Stan Williams is continuing to write interesting articles for the Alberta Science Centre's *Network* magazine, in which he details and explains the mysteries of such topics as volcanoes and how to create your own personal volcano.

Kathy Lapointe, the Committee Chairperson for the past several years, relinquished the chairmanship in June due to her anticipated hectic schedule as a new mother. There have been a lot of personnel changes on the committee this past year due to transfers, personal and work/company time constraints, layoffs and new employment opportunities. The committee thanks all of those members who volunteered during 1991 and wishes everyone all the best in their new endeavours. The committee is indebted to the old and the new volunteer contributors who continue to give their time, energy and experience and, also, to the corporations for their continued support.

Retiring members: Scott Gardner, Andrew Langille, Randy Maksymovich, Bob Moffat, John Peirce.

**CSPG REPRESENTATIVES TO CANADIAN GEO-SCIENCE COUNCIL** (Bill May, Ed Klovan)

The Canadian Geoscience Council (CGC) consists of some twenty geoscientists representing thirteen individual earth science
societies which in turn embody about 16,000 geoscientists in industry, government and academia. The Council is a focal point for coordination and communication of the earth sciences in Canada and for Canadian participation in international geoscientific cooperation. A recently approved CGC Mission Statement lists five major roles for the Council: 1) advises the general public on matters of significance to Canada and to the world that involve geoscience and geoscientists; 2) provides expert advice to governments at the federal and provincial levels; 3) promotes scientific awareness and education in Canada; 4) organizes Canadian participation in nongovernmental global cooperative programs in the earth sciences; 5) provides an accountability and reporting center for major cooperative geoscience projects in Canada and for Canadian contributions to similar international projects.

The CSPG is the largest member society of the CGC whose President is Brian Norford, Vice-President Jacques Locat and Past President Don Mustard. Some of the major thrusts of CGC during the past year have been in the following areas:

1) Professional Registration of Geoscientists – A standing committee of CGC is actively pursuing a study to develop the basis for national standards and transferability for geoscientists. A related committee is attempting to develop a suitable definition of “geoscience”, a necessary precursor to registration.

2) EdGeo Program – funds have been raised and a coordinator hired to reactivate this program which is designed to provide earth science workshops and resources for school teachers of earth science. The CSPG has provided funds towards this activity.

3) Careers Booklet/Poster – a very handsome booklet and poster promoting the earth sciences as a career has been completed and is available for distribution.

4) Geoscience Educational Board – a committee is being proposed that would attempt to provide coordination and exchange of information for geoscience educational activities in Canada.

5) Major Scientific Projects – CGC is an advisor to three major geoscience projects: Ocean Drilling Program, Continental Drilling Program, and Lithoprobe.

6) Scientific Advisory Projects – CGC has been actively involved in providing input to Atomic Energy Canada Ltd. and the Federal Environmental Assessment Review Office on matters pertaining to the disposal of nuclear wastes. Similarly, CGC was invited to provide input to a conference sponsored by the Alberta Waste Treatment Centre. CGC decided not to respond to the federal Green Plan proposal.


Bill May has completed his two-year term as representative to CGC. In 1992 the CSPG will be represented by Ed Klovan and Jim MacDonald, both past presidents.

INTERNATIONAL LIAISON COMMITTEE (Javed Iqbal, Chairperson)

The primary objective of this committee is to introduce and raise the global profile of the CSPG, as well as promote its activities through contacts with similar international organizations.

International contacts initiated in 1990 continued. We helped the Tunisian poster presentation at the 1991 annual convention and received appreciation from ETAP, the Tunisian state oil company which made the presentation.

Offers and requests for exchange of publications were received from China and Malaysia. The present CSPG setup precludes such reciprocal exchanges.

The chairperson is looking for new members for this committee, and would also welcome suggestions/comments from our growing number of international explorationists.

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

The 46th Annual Meeting of the NACSN was held on October 22, 1991 in San Diego, California during the Annual Meeting of the Geological Society of America. CSPG Commissioners Don Cook and Ray Yole were in attendance.

According to the bylaws* of the commission, any person or group wishing to have the North American Stratigraphic Code** amended may submit a proposal to the NACSN. The proposal, at this stage, may be approved for publication and discussion or rejected by the NACSN. If published, the proposal, with any modifications resulting from comments and/or discussion, is reconsidered by the NACSN for final ratification or rejection. Three proposals dealt with in 1990-91 are representative of the different levels of procedure outlined above.

In a first-stage submission the committee on allostratigraphic units proposed that the code be amended to specify that the term “sequence” be restricted to informal use only. Commissioners generally agreed with the informal use of “sequence” but did not consider it essential to incorporate this principle into the code at this time and, therefore, did not approve its publication. The committee, comprised of Don Baars (Kansas Geological Survey), Don Owen (Lamar University) and Peter Vail (Rice University), was encouraged to continue its examination of the need to formalize sequence stratigraphic nomenclature.

The committee on hydrostratigraphic units, chaired by Paul Seaber (Desert Research Institute, Las Vegas), is at second stage, with a note in preparation for publication, dealing with proposed formal nomenclature of hydrostatic units.

A third-stage proposal to substantially amend the code section on lithodemic units was brought to motion and defeated by commissioners. The amendment, advanced by D.A. Brew and

A.B. Ford (USGS) would have precluded the formal use of form terms (such as “pluion”, “batolith” or “dyke”) and would have restricted the descriptive part of lithofacemic names to lithologic terms (such as “granite”, “gabbro”, etc.).

Lucy Edwards (representing USGS) was elected chairperson of the commission, and Doo Owen (representing AAPG) was elected Vice-Chairman-Secretary.


BUSINESS COMMITTEES

PUBLICATION SALES (John Ostrom, Chairperson; Peter Guyan, Treasurer; Eric Abrechtson, Andrew Arthur, Paul English, Peter Harrington, Bill Haskett, Stephen Johnson, Rhea Karvonen, Dene Robinson)

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

CSGP publication sales totalled $71,000 in 1991. This figure, lower than last year’s projection, reflects the fact that only two publications (Memoir 16: Clastic Tidal Sedimentology and the Peace River Arch Bulletin) were introduced this year. AAPG sales at $32,000 were also lower than last year. AAPG results most likely stem from continued economic uncertainty in the oil-patch and a lack of hot selling-titles.

The committee attended four convention meetings in 1991, two in Canada and two in the United States. Sales at the AAPG, GSA and GAC conventions met expectations. Sales at the CSGP annual meeting grossed a respectable $9,000.

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 are nearly completed.

During 1992, it was expected that volume 2 of the Oil & Gas Pools of Canada series and the Geological Atlas of the Western Canada Sedimentary Basin will become available. The Atlas, in particular, will have a huge impact on sales. 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 $50,000.

The committee has a number of ongoing projects, which will lead to an exciting 1992: the joint annual meeting with the AAPG will generate an unprecedented amount of co-operation between the AAPG Bookstore and the CSGP; a mutual book selling agreement with the Geological Society of London; final discussions with the SEPM about establishing a CSGP 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, Anoco Canada, BP, Chevron Canada, Unocal Canada and Stokes-Campbell, for supporting the efforts of their respective volunteers.

ADVERTISING COMMITTEE (Peter Harrington, Chairperson; Sing Lai, Jim Letourneau, David Marchioni, Dean Potter, Safia El-Dein)

The advertising committee had a very successful 1991, raising $83,000, far surpassing the previous record of $74,184 raised in 1988 and representing an overall increase of 40% over 1990 revenues.

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<td>5,000</td>
<td>3,000</td>
<td>2,625</td>
<td>39.3%</td>
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<tr>
<td>Mem. Dir.</td>
<td>6,986</td>
<td></td>
<td></td>
<td>4,180</td>
<td></td>
<td>67.1%</td>
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<tr>
<td>Total</td>
<td>83,000</td>
<td>59,211</td>
<td>68,759</td>
<td>74,184</td>
<td>66,642</td>
<td>40.2%</td>
</tr>
<tr>
<td>Adjustment</td>
<td>(6,986)</td>
<td>4,430</td>
<td></td>
<td>(4,180)</td>
<td></td>
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<tr>
<td>TOTAL</td>
<td>76,014</td>
<td>63,641</td>
<td>68,759</td>
<td>70,004</td>
<td>66,462</td>
<td>19.4%</td>
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These results were very encouraging, especially considering the decrease in overall activity in the Western Canadian Sedimentary Basin and the recession, both of which combined to reduce spending activity in 1991. Thus, the CSGP was forced to focus on accessing a larger portion of a decreasing advertising expenditures "pie" in order to maintain, not to mention increase, our advertising revenues. Several factors contributed to the CSGP's ability to increase advertising revenues in such a hostile climate. They include:

1) Revenue Diversification. For the past several years, the Advertising Committee has focused on attracting non-earth science related advertisers so that our revenue stream would not be so dependent on rises and falls in drilling activity. The success of this effort continues to be apparent in the 1991 results, with now a significant portion of advertising revenue originating from such sources as insurance companies, financial planning consultants, and auto sales and leasing companies. We intend to continue this trend in the future to ensure that the CSGP has a stable source of advertising revenue.

2) Focused Advertising. This year, the CSGP Reservoir began a series of "focus on..." issues which are meant to give the membership more interesting articles to read, as well as to give potential advertisers more reason to place ads in focus issues related to their services. The only issue that affected the 1991 results was the October, 1991 "Focus on Exploration Software" issue, which was a resounding success. In addition to attracting several interesting articles related to geologic software issues, the October Reservoir raised $2,794 more than the average October Reservoir for
the past 4 years ($6,750 vs $3,556), due largely to new software advertisers. We plan more focus issues in the future to generate additional sources of revenue.

3) Membership Directory. Although advertising revenue was up over 19% not including the Membership Directory, the nearly $7,000 raised in advertising revenue for the directory certainly contributed significantly to the bottom line. The directory also provides an avenue for companies who do not typically advertise with the CSPG and is, therefore, a valuable additional source of advertising revenue. We hope, demand permitting, that the Membership Directory will be an annual publication. We feel that there is a demand for it in the membership, particularly with the number of changes that occur in the industry on an annual basis. If the directory can at least break even on a financial basis, an annual publication would be to the benefit of the CSPG as well.

4) Advertising Committee. In 1991, the Advertising Committee was expanded from two to six members in order to effectively handle its increasing workload. Bill Haskett, who began the committee back in 1987, left this year to fulfill his duties on the CSPG executive and continues to serve as committee liaison. Five new members were welcomed in 1991 and have helped tremendously in fulfilling all of the committee’s numerous obligations. There is still room for several more volunteers, and any interested members can contact any member of the committee for further information.

In addition to these major factors, the Advertising Committee continued to work on its ongoing obligations. Revenue from the Bulletin continued to decline, in line with the committee’s goals of transferring advertisers from our flagship technical publication to the Reservoir newsletter where their advertising effectiveness is improved and where the CSPG makes a greater return on the expenditures. The luncheons continue to be a fast-growing and cost-free source of revenue, as well as providing advertisers with a low-cost method of reaching approximately 1000 professionals every two weeks. The Calendar also showed some impressive revenue growth this year, due in part to the inclusion of a Core Laboratories Table of Formations chart in the 1992 edition.

We expect 1992 to be another good year for the Advertising Committee. Our major goals are to take advantage of the location of the 1992 AAPG convention in Calgary to generate new sources of revenue and to attempt to convince several major booksellers to distribute their information through the Society. If we achieve some success in these two new areas, 1992’s revenue total should surpass that of 1991.

GOVERNMENT GRANTS COMMITTEE (John R. Hogg, Chairperson)

The main goal of the Government Grants committee is to provide a mechanism for other committees to apply for provincial and federal grants that are available to nonprofit societies.

All committees 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 of the grant, which is only done once or twice a year.

GEOLOGIST PLACEMENT (Bev Pfeffer, Chairperson)

The CSPG maintains an updated file of résumés 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 as to maximize its utility to prospective employers.

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

The role of this committee is to acquire and maintain the appropriate computer systems technology required to support the Society’s business.

1991 was the first full operating year of the financial extensions to the membership system. The basic membership system was developed to prepare mailing labels for the Reservoir, Bulletin, annual renewals and executive ballooning. The financial extensions help track annual membership, subscription and advertising revenues of about $200,000. These custom-developed modules replace the previous manual functions of membership and subscription renewals, receipt and membership card printing, bank deposit slips and accounting summaries of membership transactions for the treasurer. The office staff now spend less time on the annual renewal process, and the potential for errors in updating and reporting has been significantly reduced. The system also prepares labels and word processing files to help notify members whose dues are not received before payment deadlines.

Development in 1991 focused on making the financial extensions operational for the 1992 renewal rush by correcting the inevitable oversights and glitches and completing modules. A major effort was made this year to ensure that the new system could handle corporate payments for multiple member’s fees and subscriptions and to report the results individually. The system now accepts VISA payments from international members and has been modified to handle U.S. dollar payments as required by the treasurer.

The May, 1991 CSPG Membership Directory was created for the first time from the directory extension to the membership system. Some additional development was required to provide the specified output.

Hardware maintenance expenses continued for the two PCs. Coaxial cabling for a 5-node LAN was run by Hanover Management in conjunction with renovations to the office. Implementation of a LAN is now feasible with hardware and software upgrades.

Next year’s focus will be to help the treasurer make the accounting systems more useful for management. New software and upgraded hardware may be required for this in 1992.
Thanks to the retiring committee members: Gordon Williams, chairperson, who initiated and, for many years, ran the Computer Committee single-handed and Alyson Robertson who helped design the financial extensions.

**MEMBERSHIP COMMITTEE** (Sandy Laing, Chairperson)

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

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<tbody>
<tr>
<td>Active</td>
<td>3299</td>
<td>3198</td>
<td>3255</td>
<td>3147</td>
<td>2956</td>
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<tr>
<td>Associate</td>
<td>171</td>
<td>167</td>
<td>192</td>
<td>176</td>
<td>197</td>
</tr>
<tr>
<td>Student</td>
<td>162</td>
<td>258</td>
<td>231</td>
<td>203</td>
<td>166</td>
</tr>
<tr>
<td>Emeritus</td>
<td>55</td>
<td>68</td>
<td>84</td>
<td>102</td>
<td>109</td>
</tr>
<tr>
<td>Corporate</td>
<td>76</td>
<td>70</td>
<td>65</td>
<td>66</td>
<td>62</td>
</tr>
<tr>
<td>Honorary</td>
<td>36</td>
<td>39</td>
<td>40</td>
<td>39</td>
<td>41</td>
</tr>
</tbody>
</table>

Total membership in 1991 decreased 5 per cent from the previous year. Active and Student members lost 6 per cent and 18 per cent, respectively, while Associate Members gained 12 per cent. Our total membership count is down 13 per cent from the historic high of 4077 members.

**ANNUAL GENERAL MEETING** (Ed Klovan, Chairperson)

The Annual General Meeting was held in the Westin Hotel on February 26, 1991 in conjunction with a technical luncheon meeting.

The Annual Report was tabled and President, Ed Klovan, gave a brief review of the very successful year experienced by the Society in 1990. Treasurer, Sheila Hinton, presented the financial report, summarizing the fiscal status of the Society.

Incoming President, Jim MacDonald, thanked the outgoing Executive for their efforts and briefly outlined the goals and plans for the coming year.

**GROUP INSURANCE** (Bev Pfeffer, 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 1991 a very competitive long-term disability plan was added to the CSPG Insurance Package.

**DISCIPLINE COMMITTEE** (Ed Klovan, Chairperson)

This committee considers matters relating to the ethical behaviour of members or officers of the Society and to make recommendations regarding disciplinary actions to the Executive Committee. No matters were brought forward during 1991.

**NOMINATING COMMITTEE** (Ed Klovan, Chairperson; Ashton Embry, Ed Wright)

The 1991 Nominating Committee presented the following slate of candidates for election to the 1992 Executive Committee:

- President – Alice V. Payne
- Vice-President – Peter E. Putnam
- Kenneth N. Beckie
- Secretary – Donald V. Currie
- Treasurer – Michael Marchand
- Director/Assistant Treasurer –
  - Robert B. Park
  - Kirk G. Osadetz
- Business Manager – William J. Hasket
- Director/Assistant Business Manager –
  - Michael L. Morrison.

Due to unforeseen circumstances, Mr. Park withdrew his nomination after the election was in progress.

No nominations for candidates were received from the membership-at-large. The mail ballot totalled 840 ballots which were counted on December 5, 1991 by members of the Executive.

The elected 1992 Executive Committee consists of:

- President – Alice V. Payne
- Vice-President – Peter E. Putnam
- Secretary – Donald V. Currie
- Treasurer – Michael Marchand
- Director/Assistant Treasurer –
  - Kirk G. Osadetz
- Business Manager – William J. Hasket
- Director/Assistant Business Manager –
  - Michael L. Morrison.

Due to the pressures of employment, Mr. Marchand submitted his resignation to the Executive on December 5, 1991.

The new executive will take office at the annual meeting in February, 1992.

**MERCHANDISE COMMITTEE** (Leo Piedimonte, Chairperson; Art Slingsby, 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 1991, the committee’s major objective was to reduce inventory by promoting sales through the CSPG office, and to work with other committees in promoting our Society. Our commitment still remains to undertake a dynamic approach in satisfying members’ needs, while making the Society more visible to all.

**PHOTOGRAPHIC COMMITTEE** (Vic Panei, Chairperson; Margaret Hanna)

In 1991 the committee has provided photographic coverage for the majority of the Society’s luncheon meetings and the annual convention.

Slides of the Society’s events on file date back to 1978. As well, a batch of older slides were located this year with a member of the Society. These slides have to be collected and catalogued.

A third member of the committee was lost in 1990 due to a transfer. No replacement has been found for this position.
PUBLICATIONS

PUBLICATIONS COMMITTEE AND PUBLICATIONS REVIEW BOARD (H. Speelman, Chairperson; J. Hutcheon, E. Klovan, J. Ostrom, A. Payne).

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 coordination 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.

A significant CSPG publication development this spring was the release of the special issue of the Bulletin on the Peace River Arch, featuring research done at the Geological Survey of Canada and the Alberta Geological Survey. Those two institutions also financed the issue to a significant extent, and as a result the special issue was published as an extra edition of the Bulletin, dated December, 1990. Its release was actually delayed to April, 1991 due to its larger than initially anticipated size.

In the late summer, Memoir 16. Clastic Tidal Sedimentology, was released. It forms the proceedings from the Second International Symposium on Clastic Tidal Sediments, which was held in August, 1989 in Calgary and was cosponsored by the CSPG and SEPM. With regards to the CSPG Memoir Series, an additional development was the reprinting of Memoirs 12 and 15, both initially published in 1988. Furthermore, several new Memoirs may result from symposia currently being planned for 1993.

The largest and most ambitious publication CSPG is currently involved with is the Geological Atlas of the Western Canada Sedimentary Basin, cosponsored by CSPG, the Alberta Geological Survey, Alberta Energy and the Geological Survey of Canada. Significant progress has been made on the Atlas as noted elsewhere in the Report of Activities. However, the initial completion target of late 1991 has proved to be unattainable. Other ongoing publication efforts include the second volume of the Oil and Gas Pools of Canada Series and further volumes of the Lexicons of Canadian Stratigraphy series.

The Society publishes two periodicals, the quarterly journal, Bulletin of Canadian Petroleum Geology, and the monthly newsletter, Reservoir. It also cosponsors with GAC the Palaeontographical Canadiana series.

RESERVOIR (Lisa-Henri Kirkland, Chairperson/Editor; Peter Harrington, Advertiser)

1991 was a year of change for the Reservoir, both in the production process and in content/format.

A number of steps were taken to alleviate production prob-
lems which had been recurring over a number of years. A change of printer was effected in order to better meet the publication's needs. Typesetting was separated from the printing function, so that the editor might have control over the quality and timing of typesetting rather than working through the intermediary of a printer. These changes resulted in improved production and more timely distribution of the Reservoir.

While the content and format of the Reservoir remained similar to that of past years, some new features were introduced during 1991. Abstracts for some division meetings were included in order to provide members with more detail on presentations and in order to increase interest in division meetings. "Theme" issues in which articles/editorials and advertising focused on specific areas of petroleum geology, were also introduced in 1991. It is hoped that theme issues will encourage submission of material and provide an organized forum for various topics.

Volume 18 of the Reservoir was published as 11 issues (one per month, with the exception of a combined July/August issue). As part of its mandate, the cost of production and mailing of the Reservoir was met through revenue from advertisements in the publication.

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 Palaeozoic terms continues, with anticipated completion in late 1992.

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: B.C. AND S.W. YUKON (W.R. Danner and T. Hoy, Editors)

Work on this lexicon is still continuing slowly, as the publication of much new and revised stratigraphy by the B.C. Geological Survey and the Geological Survey of Canada has not occurred as quickly as had been hoped and the DENAG volumes for the area are still not published. Some of the new Queen Charlotte Islands stratigraphy has appeared. A few new entries have been submitted, notably those by Andrew Arthur on the Harrison Lake area of southwestern B.C. New fossil data in many parts of British Columbia is leading to several major revisions of previously written entries. It is hoped that another year will see most of the entries on hand and revised.

MEMOIR 16 - CLASTIC TIDAL SEDIMENTOLOGY (Derald Smith, Gerry Reinson, Brian Zaidlin and Ray Rahmati, Editors; Jo MacGillivray, Copy Editor)

Clastic Tidal Sedimentology, CSPG Memoir 16, was printed in August, 1991. The 402-page book contains 25 papers, grouped
into four sections – Recognition Criteria and Facies Models; Tidal Rhythmites; Tidal Inlets, Deltas and Flats; and Nearshore Shelf Systems. A free volume has been provided to each of the editors and authors, totalling 40 copies. Friesen Printers of Altona, Manitoba, were chosen to carry out the printing because of their low price and high quality in printing the three-volume Devonian memoir.

Demand for the memoir should be strong locally given the fact that much of the Mesozoic sedimentary pile in the Alberta Basin is of tidal deposition. Moreover, the CSPG-AAPG-SEPM joint convention in Calgary in June of 1992 should provide an additional surge in sales.

In December, the remaining funds to cover book production costs will be transferred to the CSPG. This transfer will be the final measure of business and thus conclude the work of this committee.

OIL AND GAS POOLS OF CANADA COMMITTEE
(Mike Rose)

1991 was a significant year, as the first volume of the new Oil and Gas Pools of Canada was released at the annual CSPG convention in May. This release represented the culmination of several years of effort by many geologists, and initial sales were encouraging.

In 1992, we hope to maintain this momentum by issuing a second package of pool studies that will essentially complete the first volume/binder. Included with this installment will be a final index and tabs for each pool in the binder. The objective is to issue the new package in time for the AAPG Convention in 1992.

Response/participation for new pool studies has been modest at best, not surprising given the difficult times. The long-term success of this ongoing project can be ensured only through continued contributions by Canadian oilpatch geologists. If you are interested in producing a review of your favourite oil or gas pool we strongly encourage you to contact our committee.

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

The committee continues to index all papers in current CSPG bulletins, memoirs, field trip guidebooks and special publications by selecting key words and reference terms under which those papers might be found. All 1991 Bulletin papers, sorted by subject, author and NTS area were printed in the December, 1991 Bulletin.

The CSPG indexed data continues to be input to GEOSCAN, the Canada-wide index of geological data, and to GEODIAL, Alberta's index of geological data. Access to either GEOSCAN or GEODIAL may be obtained through the Gallagher Library at the University of Calgary.

LEXICON: CENTRAL CANADIAN SHIELD
(M.J. Fisrey, Chairperson; R.M. Easton, B. Dressler, G. Bennet, Resident Geologist, Sault Ste. Marie District, OGS; K.D. Card, M. Hocq, Coordinator for Quebec; T. Clark, D. Lamotte, R. Morin, K. Sharma, Q.D.N.R.; 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 1991. Because of the usual constraints and the scope of the project, progress was slow.

C.E. Blackburn left the committee.

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

At project headquarters in Edmonton, the compilers of the Atlas – Grant Mossop and Irina Shetsen – concentrated their scientific efforts on finalizing development of the Atlas data processing system, with particular regard to the analysis of lithofacies data as contained in the voluminous Canistrat files. By year’s end, all Atlas maps were subject to final production run, for transfer to computer graphics editing.

In the office of the individual chapter teams, 1991 was devoted initially to finalization of selected data elements, followed by completion of chapter figures, preparation of text, and submission of complete manuscripts. The first manuscripts were in hand. At year’s end, all but nine of the 35 chapter manuscripts were in process and the remainder were subject to imminent delivery.

The Atlas Editorial Committee was convened and decisions were made on all aspects of editorial structure and manuscript flow, graphics procedures and standards, and design and layout specifications. The Atlas volume will consist of approximately 420 large-format pages with about 60 percent featuring coloured maps, cross-sections and related illustrations. Simple line drawings will make up an additional 20 percent of the book. The final 20 percent will be given over to explanatory text and references.

Computer-based graphics processing is being utilized for virtually all of the 700-odd Atlas figures. Over the course of the year it became apparent that the computer graphics approach produces enormous benefits in terms of flexibility (for editorial modification) and for quality of output. At year’s end, approximately one-third of the Atlas graphics had been processed.

Because of delays in manuscript submission and graphics processing, it is now anticipated that ultimate compilation will not be complete until September, 1992. Allowing three months for final layout, printing and binding, it is expected that the Atlas volume will not be ready for distribution until the end of 1992. The selling price, yet to be finalized, is still anticipated to be on the order of $150 per copy.

Further information on the Atlas project is available in a series of Annual Reports (the last dated May, 1991). The Atlas Management Committee, which contains representation from the four project sponsors – CSPG, AGS, AE and GSC – has decided that there will be no published Annual Report at the close of the 1991/92 fiscal year. The next full published report will take the form of a Final Report.
In 1992, in addition to extensive work on completion of the printed Atlas volume, much effort will be devoted to finalization of the Atlas data base (for release in early 1993), documentation of Atlas software, and preparation of scientific papers on Atlas techniques.

The Atlas project would not be possible without the unstinting support of a host of individuals and institutions — authors and contributors, employers, project sponsors, and data and publication underwriters.

Membership Directory (Peter W. Hay, Chairperson; Peter Harrington)

In June, 1991, an updated CSPG Membership Directory was published, listing members alphabetically, by company affiliation and by geographic location. A new feature was introduced in this edition, namely a “Service Company Directory”, which lists computer services, geological and geophysical consultants, hydrodynamics, mapping and drafting services, wellsite geologists, etc.

A total of 922 directories were printed by Apache Superior, at a cost of $8,565.05 plus GST (i.e., $994/copy). This printing cost was largely covered by the sale of advertising in the Directory, which totalled $6,586.40. Thus, the average cost of printing each copy was reduced to $1.72/copy. The Directory was made available to members only at a cost of $5/copy plus GST.

Some consideration is being given to publishing the Membership Directory on an annual basis, rather than every second or fourth year, because of numerous recent changes in company affiliation for many members. Thus, members are encouraged to update their most current company affiliation by mailing notice of any change to the CSPG office.

History of CSPG Committee (Colin Yeo, Chairperson)

No progress has been made this year. Members of the CSPG executive have recommended that CSPG members who have retired in the recent past be approached to assist in compiling and finishing the manuscript. To date no members have been contacted.

It is planned to contact some members during 1992, especially those who have taken positions writing for various oil industry publications.

Geological Calendar (Kevin Polan, Chairperson; Clint Tippett, Mark Hadley, John Ostrom, Sales; Peter Harrington, Jim Letoumeau, Advertising)

Sales of the 1991 Calendar were sufficient to offset production costs once advertising revenue was taken into account. During 1991 it was decided that it would be appropriate to continue with the past practice for the 1992 Calendar. These are $5 per copy charge, plus GST, and a complimentary calendar for each person who submits material accepted for publication. Two thousand 1992 calendars were printed with associated costs offset by advertising charges from the ten companies involved. This should 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.

Paleontological Monographs, GAC-CSPG Joint Committee (Alexander D. McCracken, Chairperson; Alfred C. Lenz, Vice-Chairperson; David H. McNeil, Secretary; Tim R. Marchant and Russ A. McLean, Business Managers; Peter H. von Bitter, Palaeontographica Canadiana Editor; W. Robert A. Baragar, GAC Editor; J.D. (Hans) Speelman, CSPG Editor)

The CSPG and the Geological Association of Canada are the sponsoring societies of a paleontological 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 Paleontological Monographs (JCPM), responsible to the two societies. The title of the monograph series is Palaeontographica Canadiana: the first number in this series was published in 1983.

Robert J. Elias (University of Manitoba) stepped down as Chairman of the JCPM in 1991 and has been replaced by Alexander D. (Sandy) McCracken (GSC Ottawa).

Monographs to be published are:

Palaeontographica Canadiana No. 8 by D.R. Braman and L.V. Hills is entitled Upper Devonian and Lower Carboniferous Microfossils, Western Districts of Mackenzie and Yukon Territory, Canada. The anticipated date of publication is December, 1991.

Palaeontographica Canadiana No. 9 by B.R. Pratt is entitled Trilobites of the Marjuman and Steptoean Stages (Upper Cambrian), Rabbitkettle Formation, Southern Mackenzie Mountains, Northwest Canada. Anticipated publication date is December, 1991 or early 1992.

Two monographs may be published in late 1992. These are:

Zaiiliaang Ji and C.K. Barnes: Lower Ordovician Conodont Taxonomy, Phylogeny and Biostatigraphy of the St. George Group of Port Au Port Peninsula, Western Newfoundland.

E.G. McIver and J.F. Basinger: Fossil Flora of the Palaeocene Ravenscrag Formation, Southwestern Saskatchewan, Canada.

Authors of two other manuscripts on Foraminifera have had initial discussions with the editor concerning publication in the series.

Manual of Operations (Ed Klowan, Chairperson)

Each year the chairperson of each committee, division or liaison is asked to submit revisions and changes of its Terms of Reference to the Executive Committee for approval. In 1991 six committees and one liaison submitted revisions. A new Scholarship, the BP Petroleum/CSPG undergraduate or graduate student award was added to the Terms of Reference as was the Andrew D. Baillie award for the best oral presentation at a CSPG conference. Updates to the lists of award recipients were also made.
CSPG BLUE BOOK (Ed Klovans, Chairperson)

The Blue Book is a comprehensive list of Society volunteers and their contributions to societal activities. This year, the lists were brought completely up-to-date and verified for accuracy. The next task will be to organize the file into a data base format for easy access and listing.


I have now been editing the Bulletin for nearly five years. The number of manuscripts submitted in 1991, as of the first of November, is approximately 30. This means that the total for 1991 will probably be lower than 1989 (36) and 1990 (37). In 1991 the Bulletin will have published about 270 pages of Papers, Notes, Book Reviews and Discussion/Reply articles in regular Bulletin format. The annual report accounts for another 40 pages for a total of 310 pages, as opposed to 455 for 1990. This reduction was considered necessary to accommodate the increased costs of postage, mailing envelopes and copy editing for the Peace River Arch special issue that appeared early in 1991 (Volume 38A, 1990, 281 pages). This very successful effort was partially funded by the Geological Survey of Canada and the Alberta Geological Survey and was edited by Sebastian Bell and Shaun O'Connell and shepherded through the final stages by Roger Macqueen.

The first special issue of the Bulletin was a success, and there are plans for another special issue to commemorate the 150th anniversary of the Geological Survey of Canada (GSC) and the 25th anniversary of the Institute of Sedimentary and Petroleum Geology. The editors for this special issue are Jim Dixon and Tony Hamblin, who will handle the entire review and selection process, following standard procedures for review of Bulletin articles. This issue will appear as a special volume for 1991 of approximately 100-130 pages and will be received by all members and subscribers as part of their membership dues. The cost of the additional pages will be partly absorbed by the GSC.

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. The new Managing Editor, Linda St. Pierre, has taken over the job of tracking the time for reviews and a myriad of other tasks, such as the collection of page charges, that were not possible before. In addition to collecting over $4,272 (1990) and $4,185 (1991, up to November) in page charges, Linda has prepared an application to the Natural Sciences and Engineering Research Council (formerly NRC) for a grant to assist with Bulletin publication. Also, she has taken on the copy editing and uses "contract" copy editors as required. Her diligence in pursing reviewers has resulted in the time from receipt of a manuscript to publication being less than one year. Compare this to two years for typical submissions to other journals!

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 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 that is of very high quality of presentation are much appreciated.

ATLAS FINANCE (Morley Brown, Alice Payne. Co-Chairpersons; Art Stenguin, Stephanie Erskine)

The compilation of the new Geological Atlas of the Western Canada Sedimentary Basin is a complex and costly endeavour. Grant Mossop has coordinated 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 Atlas volume, estimated at $350,000.

This committee's role is to act on behalf of the CSPG in soliciting the necessary funds to underwrite the final editing and printing costs. Initial contacts with fifteen major companies in 1987 resulted in over $90,000 committed. The committee's follow-up during 1989 resulted in collection of $122,825 from 60 companies and an additional $98,855 committed. A total of 175 companies were approached: 66 responded with donations and/or commitments, three were unable to donate and 107 had no response.

In order to encourage sizeable contributions, the CSPG has agreed to award a complimentary Atlas for each $1,000 contribution, equals a Patron level donation. Contributions will be recognized in the actual Atlas volume in the following manner: Major Benefactor, contributions > $10,000; Benefactor, contributions > $5,000; Patron, contributions > $1,000.

The campaign will continue into 1992 in its third and final phase. The mandate will change in order that sufficient funds may be secured for a second printing of the Atlas in the future. Over $50,000 in pledges have yet to be collected during the course of the 1992 campaign year. In addition, an installment plan has been implemented allowing companies to handle commitment levels over a three year period. This has resulted in a very favourable response and should lead to an overall increase to the fund.
SOCIAL EVENTS

OPEN GOLF TOURNAMENT (Bruce G. McIntyre, Chairperson; Rick Bartlett, Catherine Chaplin, Jane Crandall, Peter Harrington, Bill Haskett, Martin Hewitt, John Hogg, Dick Willcott)

One hundred and twenty golfers took part in the second annual CSGP FM Open Golf Tournament which was held under ideal conditions at the Cottonwood Golf and Country Club, August 29, 1991. The tournament included breakfast, golf cart, lunch, dinner, and numerous individual and team prizes. The event is open to all CSGP members on a first come, first served basis.

This single-day event is intended to allow the participants to enjoy a round of golf with other CSGP members and tournament sponsors. The tournament is partially funded through the fees charged to the participants and is generously supported by a number of sponsors. The sponsorship fees include reduced rates advertising in the Reservoir, and as a result the tournament is able to make a positive financial contribution to the Society. The committee would like to thank our lead sponsor, Financial Management, our major sponsors, OGCI, QC Data, Canex, Core Labs, BPB Wireline, Schlumberger, PIX, Ogden Financial and Royalty Auto, as well as our numerous hole sponsors.

The 1992 tournament will be held at Cottonwood Golf and Country Club and is scheduled for the 3rd of September.

MEN’S GOLF TOURNAMENT (Greg Loughlin, Chairperson; Foon Der, Bill Mooney, Ron Shirley, Gord Salomons, Monty Ravlich, Graeme Dales, Mike Swain, Paul Wanklyn, Bob Sullivan, Dave Clements, Les Guzowski, Bob Johnston, Duncan McCowan, Cal Gabel, Pat Ward, Fred Turner, Steve Delahay, Annie Matisen)

The 1991 CSGP Men’s Golf Tournament was held on June 26, 27 and 28 at the Shawnee Slopes Golf Club. It was over subscribed as usual and those who participated had a great time. Thanks go out to the organizing committee, sponsors and golfers, who made the tournament successful once again. The 1992 tournament will be held at Shawnee Slopes and the chairperson will be Mr. Foon Der.

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

The Awards Dinner and Social was held at the Palliser Hotel on Friday, February 8, 1991. The Society’s awards were presented after a gourmet dinner. Entertainment was provided by a mixed band; Judy-Anne Wilson and Friends.

Response was encouraging – 165 people attended and enjoyed themselves thoroughly. The net subsidy by the CSGP was kept to a minimum because of the gracious support of the following companies:

- Alberta Energy Company Ltd.
- Atlana Exploration Company
- CN Exploration Inc.
- Canadian Hunter Exploration Ltd.
- Gascen Resources Ltd.
- Mark Resources Inc.
- Sceptre Resources Ltd.

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

John Chipperfield of Sproule Associates Ltd. will be chairing the 1992 Awards Dinner and Social Committee.

CSFG 10K ROAD RACE (Rob Pryde, Gregg Robb, Co-Chairpersons)

The third annual CSGP 10K road race was held at Fish Creek Provincial Park on July 21, 1991. Once again, the race was extremely well-supported by industry and very well-received by the participants. The race committee would like to thank all of our sponsors and participants for their support. We hope to see you at Fish Creek on July 19, 1992 for the fourth annual CSGP 10K road race. Until then, good health and happy training.

1991 winners

<table>
<thead>
<tr>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 and under</td>
</tr>
<tr>
<td>28 - 35</td>
</tr>
<tr>
<td>36 and over</td>
</tr>
<tr>
<td>1st Overall</td>
</tr>
</tbody>
</table>

Women

1. Tammy Merkley 36:38
2. Lynn Chumka 49:05
3. Jodi Kingsp 59:08
1. Dave Pacchiniato 36:26
2. John Jennings 38:37
3. Tim Bell 40:53
1. Sheila Manning 42:09
2. Merry Jill Mile 43:19
3. Terry Fetherstonhaugh 45:06
1. John Bolstand 35:54
2. Adrian Ruter 36:04
3. Mark Wrightson 38:27
1. Glen McWilliams 34:52
2. Bob Bachynski 36:20
3. Robert Howard 37:27
1. Women: Tammy Merkley 36:38
2. Men: Glen McWilliams 34:52
1991 winners

<table>
<thead>
<tr>
<th>Geologist</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women: Merry Jill Milne</td>
<td>43:19</td>
</tr>
<tr>
<td>Men: Glen McWilliams</td>
<td>34:52</td>
</tr>
</tbody>
</table>

Top Geophysicists

| Women: Colleen Stevens | 38:56  |
| Men: Adrian Ruitier   | 36:04  |

Sponsors:
- Adidas Canada
- AEC Oil and Gas Company
- AGAT Laboratories
- AGT Cellular Phones
- Alberta Traffic Supply
- Amoco Canada Petroleum
- Arch-Ex Consulting
- Atlas Wireline Services
- Banff Springs Hotel
- Banff Park Inn
- Butler Survey Supplies
- Cabre Exploration Ltd.
- Canadian Helicopters
- CSEG
- CSPG
- Epilepsy Association of Calgary
- Gord’s Running Store
- Integrated Metallurgical Services
- McQueen’s Restaurant
- Mobil Oil Canada
- Norcen Club
- Red Carpet Coffee Services
- Seis-Pro Consultants
- Texaco Canada Petroleum

Special thanks to Rob Watt

LADIES’ GOLF TOURNAMENT (Julie Arnott, Laurie Brazzoni, Co-Chairpersons)

The 6th Annual CSPG Ladies’ Golf Tournament was held August 29, 1991 at Valley Ridge Golf Club. We would like to thank all the sponsors and golfers for their generous support. The 1992 tournament will be held at Country Hills Golf Club on August 20th.

1992 CSPG SQUASH TOURNAMENT (Ian Young, Chairperson; Ann Ceccanese, Loren Snyder, Matt Woofter, Bob Sullivan)

The Eighth Annual Squash Tournament was held at the Richmond Squash Club, March 22-23, 1991. The number of participants was equal to the previous year’s record high, with the banquet attendance at a capacity 135, reflecting both the social nature of the event and the quality of the door prizes. Sponsorship was at an all-time high and the committee gratefully acknowledges sponsor support, in particular – Schlumberger, Digi-Rule, Great Guns, BPB and Stoakes Campbell.

This year’s Men’s A Final was a rematch of the previous year’s classic struggle, this time with David Sutton prevailing over John Cox. Next year’s rubber may prove to be the ultimate grudge match. In the Ladies’ A Event a new champion emerged in Cindy Riedeger, but she will have her work cut out to defend against perennial winner Hilary Foulkes.

Due to an Act of God the venue for the Ninth Annual event has been changed to the Boigemont Club, February 28-29, 1992. Entry forms will be available in the Reservoir, starting with the January, 1992 issue.

After two years on the committee, Ann Ceccanese is stepping down and will be missed. The 1992 committee is as follows: Ian Young, Chairperson, Loren Snyder, Matt Woofter, Bob Lee, Cynthia Visser and Bob Sullivan.

LOGAN DAY COMMITTEE REPORT (Elspeth Snow, Chairperson; Gerald Sullivan, Rene Levesque, John Maher, Ward Neale)

Logan Day was held this year on Saturday, September 14th, once again at Sandy McNabb Group Campground “A”. Attendance was considerably lower than in the past, in part due to conflicting commitments of several regulars. Only 29 adults and 15 children enjoyed the usual horseshoe matches, soccer free-for-all, campfire singing and toasts to the past; and the mulled wine was popular once again. Instead of a pig roast this year we reverted to the original Logan Day format - people provided their own meat for barbecuing and the committee provided salads, condiments and buns. ISP’s Club Fed lent their large 200,000 BTU propane barbecue, which worked very well.

The weather cooperated this year – we planned the event earlier than in the past to try and avoid the snow! - and we even had some sunshine.

Since we were not providing the meat, the ticket price was reduced to $4 and $2, based on the attendance of the past few years. However, with the lower attendance and the increase in the campground fee from $35 to $55.60 (thanks to Don Gettry), our expenses exceeded our income by $30.83.

I would suggest that next year the adult price be increased to at least $5 or $6 per person, including GST.

We had thought of holding Logan Day 1992 at Sibbald Flats, close to where the first Logan Day was held, but it would be hard to beat our present site. Thus, we plan to hold next year’s event again at Sandy McNabb. Since it will be the Geological Survey of Canada’s 150th Anniversary and ISP’s 25th Anniversary, we hope to encourage a really large crowd. We are planning the same format as this year, with people providing their own meat. We can rent barbecues from Canadian Western Natural Gas to supplement that of Club Fed.

Logan Day Toasters and Toastees:

<table>
<thead>
<tr>
<th>Year</th>
<th>Toaster</th>
<th>Toastee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1978</td>
<td>Digby McLaren</td>
<td>William Logan</td>
</tr>
<tr>
<td></td>
<td>Jack McMillan</td>
<td>James Hector</td>
</tr>
<tr>
<td></td>
<td>John Maher</td>
<td>Alexander Murray</td>
</tr>
<tr>
<td></td>
<td>Ed Klovan</td>
<td>Ted Link</td>
</tr>
<tr>
<td>Year</td>
<td>Toaster</td>
<td>Toastee</td>
</tr>
<tr>
<td>------</td>
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</tr>
<tr>
<td>1979</td>
<td>Tom Oliver</td>
<td>George Mercer Dawson</td>
</tr>
<tr>
<td></td>
<td>Pete Gordy</td>
<td>R.G. McConnell</td>
</tr>
<tr>
<td></td>
<td>Jim Aitken</td>
<td>Petroleum Geologists</td>
</tr>
<tr>
<td>1980</td>
<td>Norman Wardlaw</td>
<td>William Logan</td>
</tr>
<tr>
<td></td>
<td>Tom Olives</td>
<td>Giants of the Past</td>
</tr>
<tr>
<td>1982</td>
<td>Vladimir Okulitch</td>
<td>William Logan</td>
</tr>
<tr>
<td></td>
<td>Harry Hunter</td>
<td>Stan Slipper</td>
</tr>
<tr>
<td>1983</td>
<td>Jim Kirker</td>
<td>Bill Gallup</td>
</tr>
<tr>
<td>1984</td>
<td>cancelled due to bad weather – snow</td>
<td></td>
</tr>
<tr>
<td>1985</td>
<td>Jim Aitken</td>
<td>Charles Tyrrell</td>
</tr>
<tr>
<td>1986</td>
<td>cancelled due to bad weather</td>
<td></td>
</tr>
<tr>
<td>1987</td>
<td>Ward Neale</td>
<td>William Logan</td>
</tr>
<tr>
<td></td>
<td>John Maher</td>
<td>John Allen</td>
</tr>
<tr>
<td>1988</td>
<td>cancelled due to bad weather</td>
<td></td>
</tr>
</tbody>
</table>

**PAST PRESIDENTS' DINNER** (Ed Klovan, Chairperson)

The 17th annual Past Presidents' Dinner was held on October 9, 1991 in the Penthouse of the Palliser Hotel. The dinner was attended by 25 past presidents of the Society and many of the 1991 Executive Committee members. The meeting followed the traditional format of cocktails followed by dinner. Past President Ed Klovan introduced the current CSPG Executive Committee and President Jim MacDonald reviewed the highlights of the past year including the level of membership, financial status, review of the past convention, plans for the forthcoming joint AAPG/CSPG convention and conference plans for 1993 and 1994. Considerable discussion took place concerning the profit sharing arrangements surrounding the 1992 convention and sundry other matters.