

## CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS 1993 REPORT OF ACTIVITIES

### 1993 Executive Committee

Peter E. Putnam, President  
F.G. (Rick) Young, Vice-President  
Alice V. Payne, Past President  
Kirk Osadetz, Treasurer  
Nancy Chow, Secretary

Michael Morrison, Business Manager  
Sue Rose, Director/Assistant Treasurer  
Kevin Polan, Director/Assistant Business Manager  
Ric Sebastian, Director at Large  
Rory C. Hankel, Senior Managing Editor

#### **PRESIDENT'S REPORT (Peter E. Putnam)**

A palpable change in atmosphere has enveloped the Canadian petroleum industry over the past year. The positive financial fundamentals which now characterize much of the industry have led to an increase in activity and professional opportunities for our members. In addition, these changes have led to a different set of challenges for your Society. However, the CSPG has both the human and financial resources to rise to these challenges as they occur.

As can be seen within the Treasurer's report, the Society maintains a healthy financial position which should actually improve when several new publications (Atlas, Pangea Memoir, Mannville, Triangle Zone and Geochemistry publications) become available for purchase in 1994. This financial position caused the executive a considerable amount of deliberation concerning the best means of deploying these funds into programs which will have the greatest impact on members. This, and several new ventures have been initiated, including: 1. The development of a focused, continuing education program which deals with the geology and operational practices associated with Western Canadian reservoirs; 2. Partial funding for a professorship in petroleum geology at the University of Calgary; 3. Publication of a consultants' directory; 4. Initiation of a visiting international petroleum geologist program and, 5. Funding and facilitating the hiring of several summer students who were participants in our SIFT program.

Perhaps the greatest challenge facing the CSPG is attracting new volunteers, especially younger people. Although the Society's financial resources are solid, the current professional environment is such that practising members have greater responsibilities but fewer resources (especially time) and young people are still having difficulty entering our industry. Our Society can not and should not, run exclusively

on the backs of the 35 - 45 year-old age group. We must take steps to include both the youngest geologists and the senior members who still have very much to contribute.

This year's executive was fortunate to be represented by large, medium and small oil companies (Gulf, Home, Shell, Talisman, Placid, Paramount), government (ISPG), academia (University of Manitoba, and the service sector (Petrel Robertson). The three female members who sat on the executive are a harbinger of trends to come. The era of having most executive members from the larger firms and organizations appears to be over, and future executives are going to have to address the issue of how to best attract and accommodate potential executive members from the smaller firms which increasingly populate the Canadian petroleum landscape. To this end, those of us who have been privileged to serve on the executive committee need to inform potential candidates of the multiplicity of benefits, both personal and professional, which accrue from participation - benefits which need not carry an inordinate price tag of time commitment.

Your Society would not operate as well as it does without the support and commitment of the office staff. This year marks a watershed in that after 22 years of service, Mrs. Sheila Dylke is leaving the Society's employ. All of us who have worked with her over the years appreciate all she has done for the Society and we wish her every success in her future endeavors. Sad as we are to see Sheila depart, we are also extremely pleased to welcome Mrs. Deanna Watkins to her new role as Office Manager.

To conclude, I have enjoyed the past year immensely and I would recommend the experience to anyone. It will be difficult for one to interact with a finer group of men and women than those who comprised the past year's executive. All it needs for improvement, is you.

### TREASURER'S REPORT (K. G. Osadetz)

This report covers the financial year ending November 30, 1993, and includes the Canadian Society of Petroleum Geologists' audited financial statements. The accounting system has used accrual, and this is the third year that the society has collected the Goods and Services Tax (GST). A GST report is filed quarterly in complete compliance with law and regulation. Unemployment Insurance Premiums, Income Tax, Canada Pension Plan and Workers' Compensation payments are made on a monthly basis, as required, to the appropriate authorities. The society is generally the recipient of a GST rebate, since it derives part of its revenue from various GST-exempt sources (e.g., donations), but pays GST for the goods and services it purchases. The Assistant Treasurer, Susan Riddell Rose, and I wish to thank the many division and committee executives for their assistance with the filing of GST quarterly reports. All the figures reported in the audited financial statements are net of GST.

The society remains in excellent and improving financial condition. More than sufficient funds are in place to fulfil the society's current and foreseeable obligations. The members' equity is now \$1,861,755.00, or approximately \$576 per member. This has increased steadily since 1989, when the equity per member was approximately \$263. Income for fiscal 1992-93 was \$61,783. Although this is significantly lower than last year, it is similar to most previous years. Such profits are usually realized when the society is the sole host of its annual convention. The strong cash position on the balance sheet was only temporary. It was due to the maturing of several investments at the end of the fiscal year. The society continued to show a loss of \$21,744 in 1992-93 on general operations, but benefitted from a very profitable annual convention. This year's annual convention net income was \$112,992.

Despite the increase in the size of the operating loss, the society actually ran more efficiently (i.e., the cost per printing obligation was lower) than in 1992. The small operating loss in 1992 was due to much lower than normal costs associated with the production of the *Bulletin*. This year's *Bulletin* expenses are closer to the historical average. For example, the production of the *Bulletin* in 1989 cost \$92,048. The production of the *Bulletin* in 1993 was \$94,017. The total operating expense per *Bulletin*

obligation was approximately \$51 last year but only approximately \$47 this year, very close to the \$45 per *Bulletin* obligation in 1991. Additional, probably one-time, operating expenses incurred in 1993 included the employment of five summer student employees and other employee costs associated with changes in office staffing.

The technical program, convention and social events all performed well. The technical program showed a profit of \$22,426 compared with a loss of \$15,103 last year. This improvement was led by stronger performances in technical luncheons and continuing education. Social events showed a profit of \$1,566 compared with a loss of \$1,819 last year. This improvement was assisted by the profitability of the 10 km road race event. The successful performance of the annual convention was mentioned above.

The performance of publications sales emphasizes the importance of publications to the financial and technical health of the society. This year's loss recorded by publications largely reflects the balancing of consignment obligations to the American Association of Petroleum Geologists. What is more important, is the decline in sales per member, due primarily to the lack of significant new publications. This year's publication sales were only \$25 per member compared with \$39 per member last year. There has been an almost continuous decline since 1989 when each member spent an average of \$72 on publications. Correction of this problem has already begun. The Atlas will be released shortly, while Memoirs and other publications from the 1993 and 1994 conventions are either in production or planning. The production of these publications should be a priority for future executives. It should also be a priority for the membership, since it is from the membership that the ideas and volunteers for new publications arise.

The society donated \$44,115 to the C.S.P.G. Educational Trust Fund, in support of the Student Industry Field Trip. The Educational Trust is a charitable trust, open to donations from the membership. These donations are tax-deductible, whereas donations to the society, a not-for-profit corporation, are not. See the separate report of the Educational Trust elsewhere in the annual report.

This year, the Atlas Fund received \$29,847 in additional donations and \$22,106 from interest on its investments. The fund had a net income of \$26,876. The society further supported the production of the

Atlas by the expenditure of \$46,443 from the General Fund to monitor the progress of this undertaking. The board of directors has begun to expend the Atlas Fund against the production of *The Geological Atlas of Western Canada*. Major expenditures this year included the purchase of paper and the contracting of a layout editor (see the

statement of operations and surplus for the Atlas Fund in the audited financial statement). The surplus of the Atlas Fund is \$613,901 at the end of fiscal 1992-93. Sufficient funds are in place to ensure the printing of the Atlas. Once completed, it is envisaged that the sales of this work will be a significant source of revenue in 1993-94 and 1994-95.

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

FINANCIAL STATEMENTS

NOVEMBER 30, 1993

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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, 1993 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, 1993 and the results of its operations for the year then ended in accordance with generally accepted accounting principles.

*Collins Barrow*

CHARTERED ACCOUNTANTS

Calgary, Alberta  
January 3, 1994

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTSBALANCE SHEETNOVEMBER 30, 1993

	<u>ASSETS</u>	<u>1993</u>	<u>1992</u>
Current assets			
Cash		\$ 607,657	\$ 281,134
Short-term deposits		430,218	695,288
Accounts receivable and prepaid expenses		51,324	53,372
Inventory		158,655	141,822
Work in progress (note 2)		<u>227,216</u>	<u>25,703</u>
		1,475,070	1,197,319
Restricted funds (note 2)		<u>386,685</u>	<u>514,879</u>
		<u>\$ 1,861,755</u>	<u>\$ 1,712,198</u>
	<u>LIABILITIES</u>		
Current liabilities			
Accounts payable and accrued liabilities		\$ 121,757	\$ 39,622
Deferred revenue		<u>87,510</u>	<u>108,747</u>
		<u>209,267</u>	<u>148,369</u>
	<u>MEMBERS' EQUITY</u>		
Surplus			
Operating Fund		1,038,587	1,023,247
Atlas Finance Fund		<u>613,901</u>	<u>540,582</u>
		<u>1,652,488</u>	<u>1,563,829</u>
Commitments (note 3)			
		<u>\$ 1,861,755</u>	<u>\$ 1,712,198</u>

Approved on behalf of the Society,

\_\_\_\_\_, Director

\_\_\_\_\_, Director

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

OPERATING FUND

STATEMENT OF OPERATIONS AND SURPLUS

YEAR ENDED NOVEMBER 30, 1993

	<u>1993</u>	<u>1992</u>
<b>Revenue</b>		
Membership fees	\$ 162,974	\$ 171,759
Advertising and subscriptions	96,942	97,142
Interest and other income - Schedule 1	<u>52,492</u>	<u>50,088</u>
	312,408	318,989
<b>Expenses</b>		
Operating expenses - Schedule 2	<u>334,152</u>	<u>324,632</u>
<b>Loss from general operations</b>	<u>(21,744)</u>	<u>(5,643)</u>
<b>Other income (expenses)</b>		
Annual Convention	112,992	211,798
Publications - Schedule 3	(9,342)	13,442
Technical Programs - Schedule 4	22,426	(15,103)
Social Events - Schedule 5	1,566	(1,819)
C.S.P.G. Educational Trust Fund donation	<u>(44,115)</u>	<u>(55,000)</u>
	<u>83,527</u>	<u>153,318</u>
<b>Net income</b>	61,783	147,675
<b>Surplus, beginning of year</b>	<u>1,023,247</u>	<u>891,796</u>
	1,085,030	1,039,471
<b>Transfer to Atlas Finance Fund</b>	<u>(46,443)</u>	<u>(16,224)</u>
<b>Surplus, end of year</b>	<u>\$ 1,038,587</u>	<u>\$ 1,023,247</u>

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTSATLAS FINANCE FUNDSTATEMENT OF OPERATIONS AND SURPLUSYEAR ENDED NOVEMBER 30, 1993

	<u>1993</u>	<u>1992</u>
Revenue		
Donations	\$ 29,847	\$ 49,526
Interest	<u>22,106</u>	<u>28,661</u>
	<u>51,953</u>	<u>78,187</u>
Cost of sales		
Work in progress, beginning of year	25,703	9,479
Publication costs	201,513	16,224
Less: Work in progress, end of year	<u>(227,216)</u>	<u>(25,703)</u>
	<u>          </u>	<u>          </u>
Expenses		
Advertising and promotion	<u>25,077</u>	<u>26,089</u>
Net income	26,876	52,098
Surplus, beginning of year	540,582	472,260
Transfer from Operating Fund	<u>46,443</u>	<u>16,224</u>
Surplus, end of year	<u>\$ 613,901</u>	<u>\$ 540,582</u>



CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

NOTES TO FINANCIAL STATEMENTS

NOVEMBER 30, 1993

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) Capital assets

Expenditures on capital assets are expensed as incurred by the Society. Expenditures for the current year amounted to \$979 (1992 - \$7,952).

d) Donation pledges

Donations pledged in conjunction with the Atlas Finance Fund are recorded when collectibility is assured. At November 30, 1993, pledges in the amount of \$13,883 (1992 - \$35,317) 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)(1) 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 \$613,901 (1992 - \$540,582) which includes \$171,883 (1992 - \$125,440) transferred from operating surplus.

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

NOTES TO FINANCIAL STATEMENTS

NOVEMBER 30, 1993

2. Restricted funds (cont'd)

The restricted funds consist of cash and short-term deposits.

Atlas Finance Fund surplus is comprised of:

	<u>1993</u>	<u>1992</u>
Restricted funds	\$ 386,685	\$ 514,879
Work in progress	<u>227,216</u>	<u>25,703</u>
	<u>\$ 613,901</u>	<u>\$ 540,582</u>

3. Commitments

a) Atlas Finance Fund

The Society is committed to spend an estimated \$300,000 in 1994 in printing costs for the Atlas. In addition, atlases valued at approximately \$75,000 (1992 - \$48,900) 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:

1994	\$ 32,918
1995	32,918
1996	27,235

4. Statement of cash flow

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

## Schedule 1

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTSSCHEDULE OF INTEREST AND OTHER INCOMEYEAR ENDED NOVEMBER 30, 1993

	<u>1993</u>	<u>1992</u>
Cash and short-term deposits interest income	\$ 45,746	\$ 45,463
Committee interest income		
Annual Convention	847	-
Continuing education	106	79
Honorary address	88	77
Men's Golf Tournament	2,444	392
One day field trips	36	-
Joint Committee on Palaeontographica Monographs	298	-
Squash Tournament	17	451
Stanley Slipper	200	411
Visiting lecturers	54	116
10K Road Race	13	30
1989 Core Conference	24	122
1989 Tidal Symposium	-	51
Other income	<u>2,619</u>	<u>2,896</u>
	<u>\$ 52,492</u>	<u>\$ 50,088</u>

## Schedule 2

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTSSCHEDULE OF OPERATING EXPENSESYEAR ENDED NOVEMBER 30, 1993

	<u>1993</u>	<u>1992</u>
Bulletin and reservoir expense		
Bulletin publication	\$ 94,017	\$ 58,634
Reservoir publication	58,123	69,758
Advertising sales committee	3,591	629
Awards	11,355	16,700
Administrative		
Annual general meeting	194	1,740
Bank charges and visa	5,770	1,914
Executive committee	15,852	17,581
Liaison committees	5,802	3,552
Professional fees	14,213	15,556
Public service	4,433	17,993
Office		
Equipment purchases, leases and maintenance	6,944	17,453
Insurance	5,566	6,015
Office rent	28,531	21,202
Postage	8,647	7,026
Salaries and employee benefits	70,692	68,049
Stationery, supplies and computer associated costs	<u>4,425</u>	<u>5,906</u>
	338,155	329,708
Less: Expenses recovered	<u>4,003</u>	<u>5,076</u>
	<u>\$ 334,152</u>	<u>\$ 324,632</u>

Schedule 3

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTSPUBLICATIONSSCHEDULE OF OPERATIONSYEAR ENDED NOVEMBER 30, 1993

	<u>1993</u>	<u>1992</u>
<b>Sales</b>		
CSPG Publications	\$ 46,980	\$ 78,495
Joint Publications	10,939	8,238
AAPG Publications	<u>24,345</u>	<u>45,506</u>
	<u>82,264</u>	<u>132,239</u>
<b>Cost of sales</b>		
Inventory, beginning of year	141,822	173,277
Publication costs		
CSPG Publications	43,455	44,352
Joint Publications	16,937	11,953
AAPG Publications	<u>48,047</u>	<u>31,037</u>
	250,261	260,619
Less: Inventory, end of year	<u>158,655</u>	<u>141,822</u>
	<u>91,606</u>	<u>118,797</u>
<b>Net income (loss)</b>	<u>\$ (9,342)</u>	<u>\$ 13,442</u>

Schedule 4

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTSTECHNICAL PROGRAMSSCHEDULE OF OPERATIONSYEAR ENDED NOVEMBER 30, 1993

	<u>1993</u>	<u>1992</u>
<b>Revenue</b>		
Technical luncheons	\$ 159,989	\$ 142,345
Continuing education	46,249	33,538
Honorary address	5,769	2,857
Field trips	3,598	1,701
Other	<u>5,090</u>	<u>-</u>
	<u>220,695</u>	<u>180,441</u>
<b>Expenses</b>		
Technical luncheons	151,384	147,794
Continuing education	30,214	27,774
Honorary address	5,781	2,582
Field trips	3,247	3,067
Visiting lecturers	7,643	2,096
Other	<u>-</u>	<u>12,231</u>
	<u>198,269</u>	<u>195,544</u>
<b>Net income (loss)</b>	<u>\$ 22,426</u>	<u>\$ (15,103)</u>

Schedule 5

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTSSOCIAL EVENTSSCHEDULE OF OPERATIONSYEAR ENDED NOVEMBER 30, 1993

	<u>1993</u>	<u>1992</u>
<b>Revenue</b>		
Annual dinner and dance	\$ 7,711	\$ 5,493
Golf and squash tournaments	64,769	70,785
Past President's dinner	785	785
Logan Day	196	-
10K Road Race	<u>6,147</u>	<u>2,923</u>
	<u>79,608</u>	<u>79,986</u>
<b>Expenses</b>		
Annual dinner and dance	12,529	6,730
Golf and squash tournaments	57,932	71,470
Past President's dinner	1,891	-
Logan Day	167	-
10K Road Race	<u>5,523</u>	<u>3,605</u>
	<u>78,042</u>	<u>81,805</u>
Net income (loss)	<u>\$ 1,566</u>	<u>\$ (1,819)</u>

## AWARDS

### **PRESIDENT'S AWARD** (Peter E. Putnam, Chairperson)

Ashton Embry has been selected as the recipient for the 1993 President's award. The President's Award is the highest service award presented to individuals and, or organizations for outstanding contributions to the Society. Few individuals have had as long and varied involvement with the Society as Ashton. He has helped organize and chair several major conventions and symposia, co-edited several Memoirs (*Devonian of the World* (Memoir 14), *Arctic Geology and Geophysics* (Memoir 8), *Pangea Memoir*), and is currently the editor of the *Bulletin*. Not only have these tasks been major technical accomplishments, they have also generated significant funds for the Society. Ashton Embry is a most deserving recipient of the President's Award for 1993.

**LINK AWARD COMMITTEE** (Rhea Karvonen, Chairperson; Geoff Burrows, Drew Cadenhead, Burns Cheadle, Walt Gamp, Adam Grosjean, Greg Jones, Sand Laing, Mike Marshall, Bart Scott, Alan Slater)

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.

The 1993 winners are Eric Paauwe and Roger Dueck, who presented the paper, *The use of borehole imaging techniques in the exploration for stratigraphic traps; an example of the Middle-Devonian Gilwood channels in north-central Alberta*.

**A.D. BAILLIE AWARD COMMITTEE** (Tim D. Bird, Chairperson)

The A.D. Baillie award is presented annually for the best oral presentation at the CSPG Convention. Graham Davies was chosen to receive the \$1,000 cash award for his excellent presentation. Honourable mention is given to all other participants. The 1994 Convention organizing committee will delegate the responsibility of choosing the next recipient.

**MEDAL OF MERIT COMMITTEE** (Joe Curiale, Chairperson; Jim Allan, Ross Clark, Norm Corbett, Bob Hickman, Cindy Riediger, Technical Review Committee)

The Medal of Merit is awarded annually for the best paper published during the previous year (1992) on a subject related to the petroleum

geology of Canada (excluding production and geophysical papers without direct implications for petroleum geology). The committee began its activities with a literature search, assisted by electronic searching services, and supplemented with some papers that had not been considered the previous year. Abstracts of all appropriate papers were evaluated by committee members in a preliminary round, and the initial set of papers was condensed to provide ten final round candidates. Each of these was evaluated in detail by each committee member, and the medal winner was chosen by unanimous consent.

The paper selected by the committee for the 1993 Medal of Merit is, *A New Approach to Shale Compaction and Stratigraphic Restoration, Beaufort-Mackenzie Basin and Mackenzie Corridor, Northern Canada*, by D.R. Issler. It was published in *The American Association of Petroleum Geologists Bulletin*, volume 76, pp. 1170-1189.

The chairperson wishes to thank all committee members and their employers, as well as Electronic Search Specialist Robert Powers (Unocal), for volunteering their time and expertise in this effort.

**R.J.W. DOUGLAS MEDAL COMMITTEE** (Stephen Greer, Chairperson; Dr. H. Williams, Dr. R. Thompson)

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 committee selected Dr. Henry Charlesworth as the recipient of the R.J.W. Douglas Medal.

Plans for 1994 will maintain the same selection procedure but advertise the 'Call for Nominations' a little more aggressively than in previous years. A greater number of nominations for 1994 would be desirable.

**CSPG GRADUATE STUDENT THESIS AWARDS COMMITTEE** (Christian Viau, Chairperson; Hugh Abercrombie, Andre Chow, Leslie Eliuk, Stephen Greer, Tony Hamblin, Christopher Harrison, Don Keith, David Sturrock)

The role of this committee is to evaluate which M.Sc. and Ph.D. theses make the most significant contribution to sedimentary and/or petroleum geology in Canada each year. Criteria by which theses are judged include definition of purpose and success in reaching goals,



methodology and logic of investigations and conclusions, contribution to science and industry, 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 CSPG. An advertising notice, written in both French and English, is sent every spring to all Canadian university geology departments as well as to 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 are notified.

This year, 13 M.Sc. and five Ph.D. theses were submitted. The winner of the M.Sc. award was Marjorie Johns (University of Victoria) for a thesis entitled, *Taxonomy and biostratigraphy of Middle and Upper Triassic Ichthyoliths from northeastern British Columbia*. It contains the novel approach of using "fish parts" in an attempt to develop a new biostratigraphic tool. This work could lead to a new area of research with useful applications to the study of Triassic and other rocks ranging in age from Ordovician to Recent. The winner of the Ph.D. award was Dr. Carlos Bruhn (McMaster University) for a thesis entitled, *High resolution stratigraphy, reservoir geometry and facies characterization of Cretaceous and Tertiary turbidites from Brazilian passive margin basins*. This is a study which provides a new look at the sedimentology of turbidites at petroleum reservoir scale. This work has important, worldwide implications for sequence stratigraphy models. A short notice, with photograph, acknowledging the achievements of the two winners will appear in the *Bulletin*.

Some changes to the operation of this committee are contemplated for 1994. First, eligibility of theses dealing with modern sediments will be changed. The past rule stated, "Theses dealing with modern sediments from within Canada or elsewhere are eligible; however, in the latter case, a significant portion of the thesis should be devoted to using these modern sediments as analogues for Canadian sedimentary sequences. The use of these studies in this way should be a stated objective of the thesis". The new definition will be: "All theses 1) produced in

a Canadian University (regardless of sedimentary geological subject) and/or all 2) dealing with a Canadian sedimentary geological topic (regardless of University of origin) will be eligible." The "importance to Canadian sedimentary or petroleum geology" is only one of a dozen criteria used to judge theses and, although important, it will no longer be the unique criteria to determine the eligibility of a thesis. We felt that this change in rule better reflects the goals of the committee: to recognize good students and good sedimentary geological studies of concern to Canada.

Second, we will change the schedule of events to solicit theses from universities as well as the format for that communication. This is initiated by the fact that we have not been receiving all potential theses. After investigation, it became clear that part of the problem is one of communication. We will be contacting universities in February instead of May by sending a poster instead of a letter to be posted. Announcement in the *Reservoir* will be in the April issue instead of the July-August issue. Finally, a fax message will be sent to all universities in mid-August to remind them of the September deadline for submission. The fax will be sent to specific professors as well as to the head of the geology department.

Third, we propose to increase the value of the awards by the equivalent of approximately \$1000 per award. However, we feel that this increase should be a combination of: 1) more books (perhaps including the Atlas and AAPG books); 2) a CSPG Field Trip registration "voucher" (some limitations may apply here, and some provision is required to address cases where transportation is a significant part of the cost) and, 3) CSPG membership for several years. It has also been suggested (by P. Putnam) that the CSPG could sponsor a speaking tour for the winners to present their award winning studies to a wider audience. We feel that these changes would increase the profile of this CSPG activity, and emphasize its goals of education and interaction with Canadian universities. This proposal and its details must still be approved by the CSPG executive and will therefore be the subject of a future announcement.

The committee will potentially be looking for new members in 1994. Participation provides members with an opportunity to keep up to date with current university research. Please contact Christian Viau at Shell Canada or any of the committee members for additional details.

**REGIONAL GRADUATE SCHOLARSHIP**  
(Richard Thom, Chairperson; Lorne Rosenthal, Christian Viau)

The CSPG annually awards three scholarships, on a regional basis, 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 in Canada.

The 1993 recipients are:

Ontario/Quebec – Colleen Sherry (University of Ottawa), *Late Carboniferous, Carbonate Shelf to Basin Transition, Sverdrup Basin, NW Ellesmere Island.*

Atlantic Canada - Ken Saunders (Dalhousie University), *Sedimentology and Stratigraphy of Paleovalley fills in the Late Carboniferous Hub Cyclothem, Nova Scotia.*

Western Canada - Caroline Williams (University of Calgary), *Alluvial/Fluvial Architecture: Gilwood Mbr., Nipisi, Alberta.*

The CSPG/Norcen Undergraduate Scholarship, in the amount of \$1,250, was awarded to Karlton Rumpf at the University of Manitoba.

A number of undergraduate and graduate awards sponsored by Chevron Canada will be available in 1994. These scholarships will be administered by the CSPG in conjunction with Chevron Canada. I am sure that all the members join me in congratulating Chevron's generous commitment to the Earth Sciences.

The CSPG/BP Canada Scholarship of \$1,250, for both graduate and undergraduate students, is no longer available.

**UNDERGRADUATE STUDENT AWARDS COMMITTEE** (Greg McTavish, Chairperson)

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

The 1992/93 Undergraduate Awards were presented to the following students:

Acadia: Gary A. MacDougall

Alberta: Carl Rumpf

Brandon: Gerald Davis

British Columbia: Selina Tribe

Brock: Michael Johnson

Calgary: Alan Carswell

Carleton: Sue Buckley

Concordia: Stephen Warner

Dalhousie: Michael B. Parsons

Guelph: Michelle Hawke

Manitoba: Christine Poschadel

McMaster: Marnie Burgess

Memorial: Lisa Benson

Montreal: Isabelle Saulnier

Mount Allison: James F. Hennessy

New Brunswick, St. John: John O'Connor

Ottawa: Marianne Molgat

Quebec à Chicoutimi: Guy Gosselin

Queen's: Melanie P. Kells

Regina: Eric Strachan

Saskatchewan: Graham C. Phipps

St. Francis Xavier: Sarah-Jane Mosher

Saint Mary's: Mike Durning

Victoria: June Barker

Waterloo: Hamish Weatherly

Western Ontario: Patrick Elliott

Windsor: Michelle MacDonald

**J.B. WEBB MEMORIAL TROPHY & CSPG TROPHY** (Keith Bottrill, Chairperson)

The Canadian Society of Petroleum Geologists awards the best student presentation at each of the three Inter-University Geological Conferences across Canada. The best student presentation at each conference is awarded with \$100 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 which is presented to the best speaker has been donated by the CSPG for each conference. Each trophy is engraved with the winner's name and is kept at his/her University for a year.

1. **The John B. Webb Memorial Trophy** was awarded to the best student paper presented at the Western Inter-University Geological Conference. The 1993 Conference was hosted at the University of Manitoba in January, 1993. This year's winner was Gordon Bowers, a graduate student at the University of Saskatchewan, for his talk entitled, *Risk Analysis of Contamination Potential of a Shallow Prairie Aquifer, Saskatoon, Saskatchewan.*

2. **The J.A. Downing Memorial Trophy** for central Canada was not presented in 1993 as the conference was cancelled. It is anticipated it will be held in 1994.

3. **The CSPG Trophy** is awarded to the best student presentation at the Atlantic University Conference (A.U.G.C.), which was hosted by Memorial University of Newfoundland in October, 1993. The best student presentation at this conference was Michael B. Parsons from Dalhousie University for his talk entitled, *Geochemistry and Petrogenesis of Late Cretaceous Bentonites from the Kanguk Formation, Axel Heiberg and Ellesmere Islands, Canadian High Arctic*.

I am the only Committee member for this Committee and have had this position for the past 13 years. I am now interested in turning this over to someone else. It does not take a lot of time and consists of contacting the three universities each year prior to their conferences and arranging for the publication award and \$500 grant through the CSPG.

If you have any questions regarding this year's activities or the running of this committee, please do not hesitate to call.

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

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

Six nominations were considered by the committee and the CSPG Executive. Norman D. Newell was selected as Honorary Member for successful, scholarly work on reefs, turbidites, environment, and teaching. A second Honorary Member – John Wesley Porter – was selected for professional excellence. Porter has worked in western Canada mainly as an explorationist since 1943.

The CSPG now has 44 Honorary Members, one of whom was a charter member in 1927.

No changes in the Committee are anticipated for 1994.

**TRACKS AWARDS** (Alice Payne, 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:

Les Eliuk - Chairperson, National Conference on Earth Science, 1992 and 16 years on the Graduate Thesis Committee.

Ian Hutcheon - Editor, Bulletin of Canadian Petroleum Geology, 1987 - 1992.

Jocelyn Keith - Chairperson, Student Industry Field Trip, 1992.

John Ostrom - Chairperson, Publication Sales Committee, 1988 - 1992.

**SERVICE AWARDS** (Alice Payne, 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. Service Awards were made to the following people in 1993:

Jim Allan - Medal of Merit Committee Co-Chairperson

Steve Creaney - Medal of Merit Committee Co-Chairperson

Ken Havard - Educational Trust Fund Committee Chairperson

Al Jenik - International Division Chairperson

Ed Klovan - Appointed member of the Canadian Geoscience Council

Larry Lane - Structural Geology Division Chairperson

Shelley Leggitt - Graduate Thesis Awards Committee member

John Maher - Stanley Slipper Award Committee Chairperson

Peter Aukes - Graduate Thesis Awards Committee member

Randy Maksymowich - Honorary Address Committee Chairperson

Don Rogowski - One Day Field Trips Committee Chairperson

Kathy Aulstead - Graduate Thesis Awards Committee member

Gerald Wendland - Link Award Committee Chairperson

Roy Benteau - Geomathematics and Computer Applications Division Chairperson

David Halwas - Graduate Thesis Awards Committee member

Ian Young - Squash Tournament Committee Chairperson

Paul English - Publication Sales Committee member

John R. Hogg - Chairperson for AAPG House of Delegates, Convention Field Trips 1992 and Government Grants.

Peter Guyan - Publication Sales Committee Treasurer

J.D. (Hans) Speelman - Senior Managing Editor of CSPG Publications

### **VOLUNTEER AWARDS** (Alice Payne, Chairperson)

Volunteer awards are given to members or friends who have demonstrated significant service to the Society. Volunteer awards were made to the following persons in 1993:

Jon Dudley - Petrology Division Chairperson  
 Harold Freund - AAPG House of Delegates  
 Leo Piedmonte - Merchandising Committee Chairperson  
 Colin Yeo - History of the CSPG Committee Chairperson  
 Kaush Rakhit - Hydrogeology Division Chairperson  
 Robert Sullivan - Squash Tournament Committee member  
 Richard Willot - Open Golf Tournament Committee member  
 Jane Crandall - Open Golf Tournament Committee member  
 George Pastirik - Continuing Education Committee member  
 Karen Hall - Honorary Address Committee member  
 Ross McLean - Graduate Thesis Awards Committee member  
 Rhea Karvonen - Publication Sales Committee member  
 Guy Grierson - AAPG House of Delegates  
 Alison Hepburn - Public Affairs Committee Chairperson  
 Laurie Brazzoni - Ladies' Golf Tournament Co-Chairperson  
 Julie Arnott - Ladies' Golf Tournament Co-Chairperson

### **STANLEY SLIPPER GOLD MEDAL** (John B. Maher, Chairperson)

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

The recipient of the 1993 medal is David L. Barss.

### **SCIENTIFIC PROGRAMS**

**TECHNICAL PROGRAM COMMITTEE** (Don Stachiw/George Bennis, Co-Chairpersons; Louis Girard/CSPG Office, Ticket Sales Co-ordinator/Treasurer; Bruce Power, Speaker Thanker; Sandy Denton/Greg McTavish, Projectionist)

The 1993 Technical Program Committee held 18 luncheon presentations between January and November, with one additional talk scheduled for

mid-December. A wide variety of topics were covered from geographical areas as far-reaching as New Zealand to the more familiar Western Canadian Sedimentary Basin. Once again, several sequence stratigraphy talks were presented incorporating cutting-edge research, practical applications, applications in mixed siliciclastic/carbonate depositional environments and tectonically-influenced depositional settings. A number of "softer" geological presentations were also popular, including the Kuwait Fires Project, Global Warming, Exploring the Wreck of the Titanic, The History of Turner Valley and Royal Tyrrell Museum Renovations. The committee would like to thank all the speakers of the past year for their excellent presentations, and also those people who volunteer to help the committee. It is these efforts which make the Technical Luncheon Program the success that it is.

Attendance at this year's luncheons averaged 610 which is a 2% decrease from 1992. A structural change of the committee in 1993 resulted in all ticket sales and treasurer responsibilities being shifted to the CSPG office. The committee would like to thank Sheila and Deanna for their hard work in taking over this time consuming portion of the committee's responsibilities.

The Technical Program Committee would like to acknowledge the assistance of all ticket sales volunteers and their companies. We would also like to acknowledge Chevron Canada Resources and Amerada Hess Canada Ltd. who provided logistical and financial support to the committee.

The 1993 CSPG technical presentations are listed below, followed by the attendance in parenthesis:

- Jan. 5 Henry W. Posamentier, Arco Exploration and Production Technology, Plano, Texas: *Making Mountains Out of Molehills: A Scale-Independent Approach to Sequence Stratigraphy.* (-)
- Jan. 27 Thomas A. Ryer, The ARIES Group, Inc. Louisville, Co.: *Multiple Origins of Clastic Wedges in the Western Interior Foreland Basin - A Stratigrapher's Approach.* (-)
- Feb. 4 Richard T. Brandley University of Calgary: *Carbonate and Siliciclastic Deposition on a Wave-Swept, Cold-Water, Low-Latitude Ramp: Lower Carboniferous Mount Head Formation, Southwestern Alberta, Canada.* (537)

- Feb. 19 Wayne Deschamps, Safety BOSS: *Kuwait Fires Project.* (-)
- Mar. 3 John M. Armentrout, Mobil Research and Development, Dallas, Texas: *In Stratigraphic Analysis, the Present is the Key to Less Than 25% of the Past: How Do I Reconstruct Paleogeographic Maps for the Remaining 75%?* (496)
- Mar. 25 Judith Totman Parrish, University of Arizona: *Global Warming Perspectives from the Past.* (569)
- Apr. 15 Dick Weir, Saskoil: *3D Seismic and Horizontal Wells; A Case History from the Plover Lake Heavy Oil Pool.* (731)
- Apr. 27 Dianne Emond, Esso Canada Resources: *Upper Triassic Tidal - Flat Carbonates of the Boundary Lake Member, Northeastern British Columbia, Canada.* (609)
- May 4 Eric Paauwe, Schlumberger Canada and Roger Dueck: *The Use of Borehole Imaging Techniques in the Exploration for Stratigraphic Traps; An Example of the Middle Devonian Gilwood Channels in North Central Alberta.* (578)
- May 25 Steve Blasco, Geological Survey of Canada, Dartmouth, NS: *Exploring the Wreck of the Titanic: Scientific Observations at 3,800 Meters in the North Atlantic.* (736)
- Jun. 3 Gerald M. Ross, Geological Survey of Canada: *Origin of the Pacific Ocean: A Canadian Perspective.* (454)
- Jun. 24 Eric Dahlberg, ECD Geological Specialists Ltd.: *Hydrodynamic Oil Plays and Oil Prospects; Geology, Hydrology, Risk and Luck.* (632)
- Sep. 7 David Finch, Consulting Historian: *Turner Valley Tales and Truths.* (643)
- Sep. 22 Dale A. Leckie, Geological Survey of Canada, and Lee F. Krystinik, Union Pacific Resources, Fort Worth, Texas: *Sequence Stratigraphy: Fact, Fantasy, or Work in Progress.* (711)
- Oct. 13 Peter E. Putnam, Petrel Robertson Ltd.: *Comparison of the Lower Mannville Stratigraphy of Southwestern Alberta with Northwestern Montana and its Petroleum Significance.* (721)
- Oct. 26 Peter L. Churcher, PanCanadian Petroleum Ltd., and Andrew C. Edmunds, ACE Geological Consulting: *Using Reservoir Characteristics as a Reservoir Management Tool: Examples from the Weyburn Unit, S.E. Saskatchewan.* (628)
- Nov. 17 Paul A. Johnston, Curator of Invertebrates, Royal Tyrrell Museum: *New Paleozoic and Triassic Galleries at the Royal Tyrrell Museum.* (463)
- Nov. 30 Robert F. Lindsay, Chevron, USA Production Company, Midland Texas: *Carbonate Sequence Stratigraphy on the Development Geology Scale: Outcrop and Subsurface Examples from the Permian Grayburg Formation, Permian Basin.* (581)
- Dec. 15 C. Warren Hunt, Archean Corp.: *The Prospect for Petroleum in the Granite below the Bituminous Sands at Ft. McMurray, Alberta.* (640)

The 1994 Technical Program Committee will be co-chaired by John Hogg, Petro Canada, and Don Keith, PanCanadian. Ticket sales and Treasurer responsibilities will continue to be carried out by the CSPG office.

**ONE DAY FIELD TRIP COMMITTEE** (Chuck Buckley, Chairperson; Brad Maynes, Dave Bonnar, Mohzen Zaki)

Forty-three persons participated in one-day field trips to the Trilobite Beds on Mount Stephen and the Fairholme Reef complex at Whiteman Gap in 1993.

The Trilobite Beds trip on September 1 was spearheaded by Brad Maynes, Aztec Resources. The trip featured a visit, with Dr. Des Collins from the Royal Ontario Museum, to the UNESCO World Heritage Site Trilobite Beds above the Burgess Shale on Mount Stephen in Yoho National Park. Strong membership support for this trip allowed the use of a chartered bus for the first time in many years.

The Whiteman Gap trip on September 2 was co-ordinated by Chuck Buckley, Dominion Explorers. Graeme Bloy, Chauvco, and Sid Leggitt, Home Oil, provided superior technical expertise through the Fairholme Reef Section of Grassi Lakes and on adjacent Mount Rundle near Canmore. An additional side trip examined Mississippian outcrops beside Cougar Creek to the north of Canmore.

Congratulations on a job well done to committee members Brad Maynes, Dave Bonnar, Amoco Canada, Mohzen Zaki, and Dean Williams, Beau Canada, for his field assistance.



1994 plans are currently being initiated - please contact any committee member with your ideas for future trips.

**HONORARY ADDRESS** (Rob MacFarlane, Phil Roulston, co-chairmen; Frank Chappell, Greg Jones, Barb McAuliffe, Sandra Dey, Chris Steudler and Randy Maksymowich)

The Honorary Address is an annual public lecture which relates to a topical issue or development in the field of science presented by a prominent member of the scientific community. The address, in the past, was held in mid-November but this year was changed to mid-October to coincide with Science and Technology week. The event was held October 20, 1993, at the Jubilee Auditorium, and was attended by 260 adults and 302 students.

This year's address, *Canadians in Space, The Odyssey Continues*, was presented by Dr. Bob Thirsk, a payload specialist with the Canadian Space Agency. Dr. Thirsk, a graduate from the University of Calgary in Mechanical Engineering, was one of the original six Canadian astronauts to be selected for the program in December, 1983. He served as back-up crew member (to Marc Garneau) for mission 41G which flew October 5-13, 1984. Dr. Thirsk presented an exhilarating slide presentation on what it takes to be an astronaut and what it is like living aboard a space craft. He described the extensive training program for Canadian astronauts as well as the vital work they perform. With the aid of slides from the three Canadian astronauts who have been in space, he described our precious planet as seen from space as well as the thrill of working in a weightless environment.

Corporate sponsorship is a major part of the Honorary Address; without this support the address would not be viable. The committee would like to thank McAra Printing for their work on the poster and tickets, and Bozek-Lai for the poster design. Many thanks to the companies which generously provided financial support to purchase student tickets. These companies are:

- Petrel Robertson Limited
- Rigel Energy Corporation
- Canadian Hunter Exploration Limited
- Renaissance Energy Limited
- Gibson Petroleum Company Limited

A special thanks is extended to the company representatives for promoting and selling tickets to the event.

Committee members are to be congratulated for their hard work in making the 1993 Honorary Address a success. Continuing as co-chairpersons for 1994 are: Rob MacFarlane, Husky Oil, and Phil Roulston, Bow Valley Energy Inc. Retiring committee members are: Sandra Dey and Randy Maksymowich. The committee thanks Sandra and Randy for their contributions during their years on the committee.

**VISITING LECTURER COMMITTEE** (Mel Chambers, Chairperson; Hank Klassen, Catherine Huff)

This committee is responsible for making arrangements for lecturers who represent the CSPG to make presentations to the Earth Science Departments of Canadian universities. This includes the Link Award Tour and the Visiting Lecturer Tours.

Dr. Jeff Packard, Geosgil Consulting, presented his lecture entitled, *Divergent Dolomitization Module from Stacked Devonian and Mississippian Reservoirs, Western Canada*, to the universities of Brandon, Manitoba and Saskatchewan in March, 1993.

Dr. Fons Dekker, Dekker & Associates, presented his Link Award winning talk entitled, *Hydrocarbon Exploration Applications of Remote Sensing* to the universities of Memorial, St. Mary's, Laval, Montreal and Toronto in November, 1993.

We thank Dr. Packard and Dr. Dekker for all their efforts.

For 1994 the committee is currently organizing a tour for Dr. Dekker to visit the universities of McMaster, Waterloo, Windsor, Laurentian and Regina in February. Also, Dr. Jack Wendte will probably visit the western universities in the first quarter of 1994 and the eastern universities in the fall.

The committee has been greatly enhanced by the addition of Hank Klassen and Catherine Huff this year. The CSPG greatly appreciates their efforts on our behalf. However, additional volunteers are needed to properly fulfill the committee's mandate. Can you volunteer to help?

**VISITING PETROLEUM GEOLOGIST** (Brent Snyder, Chairperson; Paul Poscente)

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 students, geology professors and university administrators. The VPG Program is a relatively new CSPG program – the first tour took place in 1989. Previous Visiting Petroleum Geologists and company sponsors include Fons Dekker, Petro-Canada, Patricia Cucman and Tim Marchant, Amoco Canada Ltd., Ken Drummond, Mobil Oil Canada Ltd., and Peter Meehan, Husky Oil.

This year's tour was jointly conducted by Kevin Broger and Garth Syhlonyk of PanCanadian Petroleum Ltd. Their talk, *Glauconitic Sandstone Exploitation - A Case Study, Lake Newell, Southern Alberta*, was presented to seven universities which included British Columbia, Alberta, Waterloo, McMaster, Queen's, Ottawa, and Memorial. As in the past, the universities have been appreciative of the petroleum professionals who visit their campuses and provide them with a technical talk along with an industry update. The informal discussions revealed that students are most concerned with the types of courses which lead to employment. Faculty members are interested in the applicability of co-op work programs and ensuring that their curriculums are focused enough to prepare graduates for petroleum geology careers.

The VPG Committee extends a hand of appreciation to Garth and Kevin for carrying out the 1993 VPG tour. Thanks also to PanCanadian Petroleum Ltd. for covering all travel and accommodation expenses associated with the tour. Planning is underway for the 1994 tour, although no speaker or sponsoring company has been identified yet. With the generally improved climate in the petroleum industry, it is felt that getting these volunteers will not be a problem. We feel that this program offers sponsoring companies an excellent opportunity for company and industry promotion within the academic community. The VPG has an opportunity to give something back to the universities by providing them with a working geologist's perspective of the industry.

**CONTINUING EDUCATION COMMITTEE** (Glen Squires, Chairperson – Dec. 1992 - Apr. 1993; Virginia Trapnell, Chairperson – Apr. 1993 - present; Virginia Trapnell, Treasurer – Dec. 1992 - Apr. 1993; Jana King, Treasurer – Apr. 1993 - present; Graeme Bloy, Lynne Chrumka, Maggie Kasekende, Dianne Leonhardt, Althea Lincoln, Suzan Moore, George Pastirik, Jennifer Sadee, Bob Millspaugh (AAPG))

The committee ran seven courses this year. They were enthusiastically attended, mainly by employed CSPG members. The following is a list of the courses accompanied by the number of attendees in parentheses:

*Identifying Applications for Horizontal Wells - A Case Study Approach*, by Jim Artindale and Dave Smith (39).

*Evaluation and Risk Analysis of Canadian Oil and Gas Properties*, by Sproule Associates Ltd. (19).

*Survival in the 90's*, CSPG Oil and Gas Forum (66).

*Devonian – Early Mississippian Carbonates of the Western Canada Sedimentary Basin: A Sequence Stratigraphic Framework*, by Frank Stoakes and Jack Wendte (20).

*Starting Your Own Oil & Gas Company*, by the Lomax Group (29).

*Starting Your Own Consulting Company*, by the Lomax Group (17).

*Identifying Applications for Horizontal Wells – A Case Study Approach*, by Jim Artindale, Ross Clark and Dave Smith (28).

Total unaudited gross and net revenue: \$47,816.89/\$17,643.83 with a net profit return of 36.9%.

Special thanks and recognition are given to all the helping hands especially to Jana King, Jennifer Sadee, Lynne Chrumka and Suzan Moore to their part of making the committee a success this year.

The Evaluation course by Sproule appears to be in demand by the oil and gas industry. It will be held again this year, tentatively scheduled on March 21-24. Other courses planned for 1994 are: Starting Your Own Oil & Gas/Consulting Company on March 5 & 12, a short course on Clastic Sedimentation (Lower Mannville) by John Hopkins and a course on Hydro-dynamics by Grant Ward in the fall.

More detailed information regarding the committee's course agenda can be found in January/February, 1994 Reservoir. It is also available for pick-up at the CSPG office.

Glen Squires and George Pastirik retired from the committee this year. No new members joined the committee this past year. The committee welcomes anyone who wishes to join as a new member. Please direct any inquiry to the chair's attention (Virginia Trapnell).

**STRATIGRAPHIC NOMENCLATURE** (Ashton Embry, Chairperson; Jim Barclay, Tim Marchant, Ed Niewinski, Tony Tankard, Ed Wright)

Three papers were reviewed by the committee in the past year and recommendations for improvement were provided to the authors.

### **CONFERENCES, CONVENTIONS, SEMINARS, AND SYMPOSIA**

**1993 ANNUAL CONVENTION – CARBONIFEROUS TO JURASSIC PANGAEA: A GLOBAL VIEW OF ENVIRONMENTS AND RESOURCES** (Benoit Beauchamp and Ashton Embry, Co-Chairpersons)

Every so often, the CSPG stages a convention that differs from its usual convention by a more academic and more specific theme. Such conventions cater to much broader audiences from Canada and abroad, but, understandably so, attract fewer people from Calgary. Such conventions produce less profit than a normal Alberta-focused convention, but they faithfully serve the broader scientific and geographic mandate of the CSPG and yield a scientific legacy in the form of Memoir or other publication. The 1987 Devonian Symposium was such a convention; it resulted in the publication of the impressive, three-volume Memoir 14. Six years later, the CSPG staged another such convention: the Pangea Conference, which beyond doubt was a resounding success. Some numbers speak for themselves: more than 370 presentations, the highest number ever presented at a CSPG Convention; more than 1400 attendees from Canada and all around the world; more than \$100,000.00 in grants gathered from various companies, scientific societies and government organizations; more than 50 sponsored presenters from Russia, China, and other developing countries; a highly successful core workshop with an impressive core guidebook; well-attended, imaginative short-courses; a spectacular series of field trips around Western Canada and elsewhere; a unique icebreaker at the Devonian Gardens; and a variety of commercial booths that nearly filled the entire Exhibition Hall. In

addition, the conference will result in the publication of CSPG Memoir 17 which is currently through the review process, and will contain about 100 papers (Don Glass, co-editor).

The Conference got off on an exotic note with a wine and food fair held at the Devonian Gardens on Sunday, August 15 (Mike Dawson and Jo Monro, Entertainment Committee). Wine and food from seven countries was served in various areas of this outstanding facility. A classical music quartet added to the good taste and sophistication of the event, and made for a unique and unforgettable evening. The CSPG should keep this in mind for future convention icebreakers. The efforts of Dawson and Monro also resulted in the conference banquet that was held at Heritage Park and featured a live gun fight and the hanging of a horse thief (Ashton Embry), as well as a talk on dinosaurs by Dr. Phil Currie (Tyrrell Museum of Palaeontology). This event, designed for the international crowd at the conference, sold out quickly. Another event organized by Monro and Dawson was the CSPG luncheon, also a sell out, at the Palliser Hotel; featured guest speaker was Dr. Robert Ginsburg who eloquently spoke on three challenges of global sedimentary geology. Prior to Ginsburg's talk, an Honorary CSPG Membership was presented to the legendary Dr. Norman Newell who, at more than 90 years of age, managed to make the trip to Calgary from New Jersey in his car. Monro and Dawson also organized a series of daily trips to various Calgary and Western Canada tourist avenues for spouses and accompanying guests.

Dave Gibson (ISPG) put together a spectacular series of field trips that visited Carboniferous to Jurassic outcrops of Western and Eastern Canada, and Northwestern USA. Three field trips were cancelled because of lack of participants. In contrast, four field trips were sold out. Gibson was helped by Shelley Leggitt (PRI) who booked buses for most field trips. Shelley also organized transportation to and from Heritage Park for the banquet, and put together a bus shuttle service for the Core Workshop.

One of the conference's highlights was the Core Workshop that was held all day August 18 at the ERCB Research Centre. The event was beautifully organized by Rhea Karvonen, then with Chevron, who received help from half a dozen downtown geologists whose input ranged from editing the impressive guidebook to organizing the workshop (Jules den Haan, Norcen



Energy; Tobin Webb, Rakhit Petroleum Consulting; Keenong Jang, Gulf Canada Resources; Drue Robinson, Stoakes Campbell Geoconsulting; Joerg Wittenberg, Alberta Energy Company; Gary Smith, Canadian Hunter Exploration). By far the biggest highlight of the workshop was the spectacular, continuous core through the Permian Reef Complex of West Texas that was brought by Ray Garber of Chevron USA.

Five, well-organized (Doug Stewart, Chevron Canada; Short Course Committee) and well-attended short courses were held before the conference. Three of these short courses dealt with clastic and carbonate facies models as lectured by Noel James and Roger Walker, based on the latest issue of the best-selling GAC's *Facies Models*. Graham Davies and Tom Moslow lectured on Triassic reservoir rocks of Western Canada using core material from ERCB. Tim Cross lectured on sequence stratigraphy.

Neil Watson and Bob Lee (then with Samedan Oil; Commercial Exhibits Committee) managed to fill Exhibition Hall with commercial booths, a feat that is worth noting considering the more academic and thematic nature of this year's convention. Also worthy of mention is the work of John Utting (ISPG; Grant Committee) who helped acquire more than \$100,000 in grants from various government organizations and oil and gas companies. The most generous contributions came from the Geological Survey of Canada, the International Science Foundation, the Global Sedimentary Geology Program, Chevron, Gulf, Mobil and Auto-trol Technology. About 20 additional companies contributed; their help was acknowledged in a number of places during the conference. A large portion of these grants was used to sponsor keynote speakers from around the world, as well as more than 30 presenters from developing countries, including a large contingent from Russia. Accommodation for these people and for other conference attendees was skillfully organized by Kathy Aulstead, then with Shell Canada.

By far the biggest highlight of the conference was the Technical Program itself which offered an impressive selection of 370 presentations, many of which were by the "Who's Who" of Carboniferous to Jurassic geology. The richness of the program has, in fact, drawn the only real criticism of the conference: too many good talks to chose from, and too little time left to roam in Exhibition Hall and around the poster boards.

This resulted from the 30-minute talk format, which was appreciated by most people (as opposed to the more conventional 15 or 20 minutes presentations). It also stemmed from an overwhelming response to the call-for-papers which brought about 100 presentations in excess of the organizers' most optimistic expectations. The pre-Conference publicity (two circulars, a poster, personal invitation letters, notices in two dozen magazines, monthly ads in the *Reservoir*, etc.) may have contributed to this success (Benoit Beauchamp and Peter Neelands, Publicity Committee). The Technical Program was put together by the Conference co-chairmen with the invaluable help of Peter Aukes, Norcen Petroleum, Jim Barclay, ISPG, Graham Davies, Graham Davies Geological Consultants, Charles Henderson, University of Calgary, Ian Moffat, Gulf Canada, Terry Poulton, ISPG, and Christian Viau, Shell Canada. The A.D. Baillie Award for the best oral presentation was given to Graham Davies and Tom Moslow for their August 18 talk, *Triassic Deposition and Reservoir Facies of Western Canada*. The award was based on the compilation of judging scoresheets (Tim Bird, ISPG; A.D. Baillie Award Committee).

Finally, but not least, was the phenomenal help the conference received from a handful of individuals who handled some of the most important, time-consuming, nerve-racking aspects of this year's convention. Hats off to Elspeth Snow (ISPG, Registration), Sylvie Pinard (ISPG, Treasurer), Billie Chiang (ISPG, Secretary) and Peter Neelands (ISPG, Technical Support) who survived the three-week pressure cooker before the conference and still managed to perform their duties without a glitch during and after the conference. These people were the heart and soul of the Pangea Conference. They managed to make a very complex organizational nightmare look like rather a smooth event, an event that is still being praised by many as one of the best meetings ever organized: "It was one of the best conferences I've had the pleasure to participate in in a long-time – IT WAS SUPER!!!" (letter from Dr. Harry E. Cook, USGS, September 7, 1993).

**1994 CONVENTION COMMITTEE – CSPG-CSEG EXPLORATION UPDATE '94** (Bruce Shultz, Neil Rutherford, Co-Chairperson; James Dobson, A.R. (Tooney) Fink, Technical Co-Chairperson; Ian Young, Entertainment; Loren Snyder, Exhibits; David Nordin, Sponsorship; Brent Snyder, Logistics; Ellen Biasucci, Publicity; Genga T. Nadaraju, Registration)

The Fifth Joint Technical Convention of the Canadian Society of Exploration Geophysicists and the Canadian Society of Petroleum Geologists will focus on the dynamic shifts that currently shape our Canadian oil and gas industry. As the Western Canadian Sedimentary Basin matures and the Canadian oil patch continues its transition into the global energy scene, two areas of expertise are developing again in Calgary.

1. The domestic business is driven by small independents who use leading edge technology to optimize their performance in focused areas of the basin, and;

2. The larger Canadian companies, finding it difficult to sustain their production locally, are searching internationally for reserves and production with the skills they have sharpened in our frontier and western Canadian basins.

Thus, in 1994, Calgary remains as a nucleus of the global energy scene with our "Western Canadian and International Expertise".

The technical program will focus on three areas: first, exploration and exploitation of clastics with special attention on foreland basin siliciclastics of the Mannville Group; secondly, the carbonates of the Upper Paleozoic passive margin; and thirdly, international exploration, including a significant number of global case history presentations.

#### *CLASTICS – Mannville Symposium*

A multi-disciplinary symposium on the Mannville Group (and coeval strata) will include oral presentations, a core and poster display and field trips. The goal is to have a state-of-the-art Mannville publication ready for distribution at the symposium.

#### *CARBONATES*

What's Old, What's New, Where, How and Why!! The carbonate session will review our present understanding of carbonate issues, review new techniques, and present numerous case histories from the Western Canadian Sedimentary Basin.

#### *INTERNATIONAL*

The International segment of the Convention will be discussed in three forums:

1. Case Histories
2. International Exploration and Development – Applied Technologies
3. Emerging International Opportunities

#### *OTHER*

Other technical sessions at the Convention will include:

1. Basin analysis: rifts, sags, transforms and hydrocarbons

2. computer technology - future directions

3. Triangle zones

4. Capital sources

A series of short courses and a wide variety of field trips will be provided to convention delegates. Visits to exposures of ancient and modern sediments in Western Canada and the Bahamas are planned.

Currently, three publications are in the works. The publication on the Mannville will be compiled and distributed at the convention as well as two special publications – one of the CSPG, the other of the CSEG, compiled from the Triangle Zones and international case histories, respectively. There will be a Mannville core workshop held Monday, May 19, 1994 at the Core Research Centre.

Two luncheon talks will be scheduled for Tuesday, May 10 and Wednesday, May 11, 1994 which will feature a prominent personality addressing a topic of general interest. The individuals and subject matter will be confirmed at a later date.

#### *ENTERTAINMENT*

The Entertainment Committee has booked the Devonian Gardens as the site to hold the convention ice-breaker, "Hey Days of the Canadian Oil Industry," which will focus on the history of the oil industry in Western Canada. In conjunction with the ice-breaker, an exhibition of oil patch memorabilia including oil field photographs and equipment is being arranged. The exhibition will run for one week on either side of the ice-breaker so the public will have an opportunity to view the exhibit.

#### *EXHIBITS*

Exhibits are going well, with 74 companies already looking to secure booth space. Application deadline is February 14, 1994. Booth spaces for 123 exhibitors are available.

#### *SPONSORSHIP*

The Sponsorship Committee has been successful in compiling an extensive list of potential sponsors and exhibitors using and updating previous committees' files. A more comprehensive producers' list has been assembled to permit easier canvassing of the corporate sector. To date, response has been encouraging from this group. Six companies confirmed or expressed interest but the service sector has been slower to respond.

#### *LOGISTICS*

Arrangements for rooms and equipment have progressed well over the past six months. The

Convention Center lease which was originally signed in November, 1992 has been revised and will be finalized prior to next year. All available Convention Centre space has been booked for seven days spanning the convention dates. The Palliser Hotel's main dining room has been reserved for two luncheons which will take place on May 10 and 11, 1994. The Skyline Hotel has been notified of the convention and has reserved a block of rooms for us.

#### **PUBLICITY**

A traditional western cowboy motif was used in conjunction with a globe to reflect our theme of "Calgary - Western Canadian and International Expertise". An initial circular has been designed to pull together information supplied by all committees with our poster design.

The poster, circular and abstract kit have been mailed out as inserts in both the *Reservoir* and *Recorder* to the entire mailing list. This includes some 5,000 addresses in Canada and internationally. Copies of the poster and circular were also handed out to attendees at the Pangea Conference. Notices have been placed in the *Reservoir* and *Recorder* to promote the technical sessions and seek submission of papers.

A second circular was mailed out in February, 1994. Some special publications will also be targeted for placement of advertising to promote the convention.

#### **REGISTRATION**

On-site registration of computerized registration packages will be handled by the CSEG Ladies Auxiliary.

#### **CONCLUSION**

Exploration Update '94 will be your best opportunity to become acquainted with the latest concepts and technology, as well as to meet old and new friends or new potential business partners.

So, plan to join us May 10-12, 1994 or better still, give a paper on a topic that shows how you and your company are adapting to the changing business environment.

**1994 SYMPOSIUM ON PETROLEUM SOURCE ROCKS: FORMATION, DIAGENESIS AND EXPULSION** (Marc Bustin, Chairperson; Steve Calvert, Chairperson; Hans Wielens, Chairperson/secretary/treasurer)

Petroleum source rocks are one of the pillars of petroleum systems. A thorough understanding of them significantly reduces the risk in petroleum exploration. Research into the factors

that influence their formation and the processes that lead to the generation of petroleum has, during the last decade, substantially increased our knowledge about these processes. Nevertheless, there are still large areas that are under active investigation, and the frontiers of this research have the potential to produce quantum leaps in our understanding of their formation. Thus, a conference dedicated to this topic is long overdue. In light of the increasing global perspective of hydrocarbon exploration, but also in an environment of increased development, the focus that can be provided by a well-founded understanding of where and why petroleum source rocks do form and generate carbonates will be crucial.

This symposium will be held under the auspices of the Canadian Society of Petroleum Geologists (CSPG) during the Exploration '94 Update in Calgary.

Originally the symposium was to be held April 25-29, 1994, but it cannot proceed on those dates due to insufficient interest. For financial break-even we would need at least 150 participants. Only about 60 people requested a second circular but, on the positive side, about 30 submitted an abstract. This interest is global, with a stronger component from abroad than from Canada. On the suggestion of Peter Putnam, the organizers tried to secure a place in the Exploration Update '94. The organizers of that meeting have offered to provide us with a special session. We would run our intended program virtually unchanged. A letter to explain this change has been sent out to those pre-registered; the response has been very positive.

The scientific program of the meeting will consist of a series of contributed oral papers and concurrent poster sessions. The oral papers will be collated into a special issue of the CSPG Bulletin, and the posters will be printed into a booklet with extended abstracts as part of the symposium material for each registrant.

The main topics for the symposium will be:

1. Source rock formation and preservation: marine (clastic and carbonate), lacustrine, transitional; role of anoxia, organic productivity and sedimentation rates; tectonic, biological and climatic factors.
2. Diagenesis: biochemical and geochemical fossils, role of sulphur and mineral catalysis; characterization of diagenesis in relation to source rocks; role of exsudatinite; oxidation and biodegradation.

3. Expulsion: difference between laminated and dispersed organic matter; role of pressure; time; influence of catalysts; micro-fracturing; adsorption and desorption; efficiencies.
4. Modelling (2D and 3D) - recent advances; kinetics; case histories.
5. Case Histories: (rift basins, foredeeps, passive margins, etc.)
6. Core display. An excellent set of drill cores through several source rock formations in the Western Canadian Sedimentary Basin is available for study. A display will be organized, tying the actual rock to a range of analyses that have been applied to it.
7. Field trip to a source rock in generating stage in outcrop.

It is our hope that this symposium will bring together active research workers on source rocks, that it will strengthen the ties between researchers in the industry and the academic world, and be of special interest to smaller petroleum companies that cannot afford their own research groups.

**1995 CSPG-CWLS JOINT SYMPOSIUM - EXPLORATION, EVALUATION, & EXPLOITATION - *The Economic Integration of Geology and Formation Evaluation*** (Glynn Wright, Chairperson; Taras Dziuba, Co-chairperson; Graeme Bloy, Peter Kuciba, Technical Program; Brad Hayes, Poster Sessions; Ric Sebastian, Finance; Craig Lamb, Printing; Holly Raddysh, Convention Facilities; Jeff Levack, Exhibits; Chris Molaro, Registration; Glenn Gray, Publicity; Norm Wardlaw, Short Courses; Colin Yeo, Core Workshops; Joan Carter, Field Trips; Maggie Schofield, Special events)

This is the first Joint Symposium (May 28 - 31, 1994) of the CSPG and the Canadian Well Logging Society; the title and sub-title indicate the direction which our industry is taking with the integration of its efforts. Critical aspects of the symposium include the elevation of the poster sessions and the core workshop to a more prominent position as an integral part of the technical communication thrust. Field trips and courses will also reflect symposium themes and industry needs for the second half of this decade. The committee is aiming for a technical, social and financial success, with a very definite focus on the application of technical ideas to the petroleum industry: that's how we want to be remembered!

The chair and co-chair positions were filled early in 1993, and our monthly meetings began for the whole committee in September. By November, the symposium theme was finalized and the initial technical program developed by Graeme, Peter, and Brad. The initial symposium title, *The habitat of sub-surface fluids*, was changed because it did not capture our intentions in terms of the technical program which is being designed to provide solutions and debate for alternatives to everyday problems.

Proposed topics include: Horizontal drilling; Fractured carbonate, sandstone and shale reservoirs; Reservoir heterogeneities and characterization; Evaluation of deep carbonate gas reservoirs; Measurement while drilling; New logging, petrophysical and core analysis techniques; Exploitation of older pools; Case studies; Images of Boreholes; Hydrodynamics, fluid studies and open hole testing; Environmental geology; Geostatistical and computer applications, Structural geology; Geochemistry. There will probably be four, concurrent sessions of verbal presentations and many poster displays. We believe that the posters will offer an opportunity for more fruitful and personal dialogue where small discussion groups can debate aspects which are most pertinent to them.

Students will be encouraged to attend; Norm Wardlaw is the contact person here. ♪

## PUBLIC SERVICE

**STUDENT INDUSTRY FIELD TRIP** (Bruce Power, Chairperson; Larry Strong, Treasurer; Byron Bahnsen, Kirby Crowell, Tony Cadrin, Paul Fejer, Rob Fisher, Andrew Fox, Bruce McFarlane, Grant Milner, Regan Palsgrove, Brian Parsons, Greg Perras, Greg Soule, Martin Teitz)

This trip was established in 1977 to help students from across the country become familiar with the study of petroleum geology and with the geology of western Canada, particularly the Western Canada Sedimentary Basin. The SIFT has an annual budget of approximately \$35,000. Each university in the country with an undergraduate program in earth science or geological engineering sends one student to participate in the trip. This past year, 33 of the top, third-year undergraduate students in earth sciences attended. One new university, the University of Victoria, was added to the trip this past year.

The 1993 SIFT was held May 2-15, and was considered a great success by all. The trip involved five days of field excursions through the Rocky Mountains and Dinosaur Provincial Park. An exploration game involving a fictitious hydrocarbon play was conducted to help students apply their newly-learned knowledge of the science of petroleum geology in a business atmosphere. In addition, there were numerous seminars and presentations on a variety of aspects covering both the science of petroleum geology as well as how it is an integral part of business in Canada's petroleum industry. There was also a tour of an active drilling rig and a fly-over of the Rocky Mountains, with aircraft provided by Amoco Canada and Home Oil. This past year SIFT instituted a summer job program which was very successful. The CSPG contributed \$12,000 to help three companies subsidize the cost of employing a student for the summer and the federal government contributed funds that allowed two more jobs to be created. Two students were employed by Gulf Canada, and one each by Chevron Canada Resources, Gascan Resources, and Cabre Exploration.

The committee would like to express our thanks to all the people who volunteered their time and knowledge to lead seminars and field trips. In particular, we would like to thank Kevin Root, Brian Fisher, and Peter Fermor of Shell Canada for leading the Rocky Mountains trip, and Dave Eberth of the Royal Tyrrell Museum for leading the Dinosaur Provincial Park trip. We would also like to thank the University of Calgary Department of Geology and Geophysics and the U of C Housing department. I would like to express my personal thanks to all the committee members for their efforts over the past year. New committee members for 1993 were Byron Bahnsen, Paul Fejer, and Grant Milner.

The 1994 SIFT is already in the planning stages. One more university, the Université de Québec à Rimouski, is being added to the trip. We hope to expand the summer job program to allow approximately 10 students to be employed without subsidy from the CSPG. Bruce Power will remain as chairperson and Larry Strong will remain as treasurer for 1994. New committee members for 1994 are Tannis Gibson and Indraneel Raychaudhuri, who are replacing Kirby Crowell and Rob Fisher.

**EDUCATION TRUST FUND, BOARD OF TRUSTEES** (Ed Wright, Chairperson; Sheila Hinton, Mike Hriskevitch, Ed Klovan, Jim MacDonald, Alice Payne; Financial Subcommittee, David Burton)

The Educational Trust Fund was originally established in 1977 as the 50th Anniversary Trust Fund. The stated purpose of the fund at that time was to support educational activities of the CSPG, especially the Student Industry Field Trip. The mission was modified in 1991 to extend benefits to high school teachers and students. The scope of fund application and effort is currently being examined and may be modified pending the outcome of current investigations and correspondence with the various arms of the federal government.

The fund is exempt from income tax and also enjoys charitable status. Donations and gifts to the fund are excluded from the annual disbursement quota until November 30, 1997. Changes to the Income Tax Act in 1989 regarding charitable organizations meant we no longer required permission for the accumulation of funds as long as 80% of receipted donations are expended. Capital received from estates and other gifts specifically directed by writing to be retained for 10 years are excluded from disbursement requirements.

Funds are invested through RBC Dominion Securities. Current philosophy is to move the various investment instruments out for a period of about five years in order to maximize interest return and also to allow annual capital turnover to cover disbursements and allow for strategy changes that would maximize returns in a changing economic environment. Risk has been minimized and all monies are in T-bills, government bonds, and insurance annuities.

**Financial Summary:**

Balance on Dec. 1, 1992	\$605,865
Funds disbursed (SIFT)	\$ 34,000
Funds contributed	\$ 25,000
Portfolio worth Dec. 1, 1993	\$655,828
Cash (Nov. 30, 1993)	\$ 948
Total fund value Dec. 1, 1992	\$656,776
Fund Growth	\$ 50,911
Percentage fund growth	8.4%

Trustees, normally three past presidents and three other members of the Society, serve for three years. Ed Klovan and Mike Hriskevitch will be retiring from the board following the annual meeting of the Society. Replacements will be Peter Putnam and one other, to be named by the executive of the Society.

**ARCHIVES AND HISTORY COMMITTEE** (J.W. Porter, Chairperson)

The Archives and History Committee's principal endeavour this past year was the photo-



graphic exhibition entitled, *Windows Into Our Past* – a photographic chronicle of early oil and gas exploration in Western Canada that was displayed at the CSPG Awards Dinner Meeting February 5, 1993. This display, in context and theme, was similar to the one exhibited at the AAPG Calgary convention in June, 1992 but additional photographs gleaned from the Hume collection were introduced.

The collection of material relating to the history of the Society has been an ongoing mandate of the Archives and History Committee. When relevant material is received, it is deposited at the Glenbow Archives for codifying and filing. This accumulated material of the Society's past will hopefully serve future researches chronicling the history of the CSPG.

### TECHNICAL DIVISIONS

**SEDIMENTOLOGY DIVISION** (Rhea Karvonen, Chairperson; Chuck Buckley, Gary Smith)

The Sedimentology Division continued its monthly noon hour lecture series of technical talks, courtesy of Norcen Energy which provided the meeting room and projection equipment. We would like to thank Stephanie Erskine (Norcen) for arranging the room and equipment bookings. Geomania (manager Frank Pomroy) continued to generously donate gifts which were presented to the Sedimentology Division speakers.

The 1993 technical presentations were:

- Jan. 21 Bruce Hart, GSC: *Sedimentary framework of the Fraser Delta Slope.*
- Feb. 24 Kevin Polan, Shell Canada: *Three gas-water contacts in a stratigraphically trapped pool, Swan Hills Formation, Caroline, Alberta.*
- Mar. 17 Doug Cant, GSC: *Sedimentology and sequence stratigraphy of the Falher member deposits, west-central Alberta: relationships between marine and non-marine strata.*
- Apr. 13 Kevin Root, Shell Canada: *Devonian and Mississippian basin evolution and diagenesis in the Plains of Western Canada and its relationship to the development of mid-Paleozoic thrust belt.*

Paul Fejer (Norcen) will replace me as Chairperson; I will stay on the Sedimentology Division executive in 1994. Gary Smith, who replaced Peter Aukes in early 1993, and Chuck Buckley will both step down in 1994. I would like to thank them for their contributions to the Division.

**ENVIRONMENTAL GEOLOGY DIVISION** (Dave Elliot, Chairperson; Darcie Greggs, Jack Century, Peter Dankers, Fons Dekker, Treasurer; Paul Whitby, John Wonfor, Rory Hankel, Executive Liaison; Alan Ingleson, George Eynon, Steering Committee)

The Environmental Geology Division finished its fourth year of activity in 1993. The following technical meetings and seminars were held over the last 12 months:

- Jan. 12 Dr. Sheldon Roth: *Toxicology Research and Atmospheric Pollution.*
- Feb. 26 Denis Leask: *Environmental Databases.*
- Mar. 24 Suresh Kharkanis: *Environmental Sampling and Analytical Protocol.*
- Apr. 2 Seminar on Environmental Geoscience for the Petroleum Industry. A one-day seminar with speakers from industry, academia and government.
- May 20 Fons Dekker: *Remote Sensing.*
- Jun. 17 James Freeman: *Groundwater Modelling*
- Sep. 23 Gerry Reinson: *Human Influence on Coastal Erosion and Pollution, Maritime Provinces.*
- Oct. 28 Catrin Von Donkelaar: *Stable Sulphur Isotopes as Tracers of Industrial Sulphate in Groundwater.*
- Nov. 25 Dr. Peter Jones: *The Structural Geology of the Frank Slides.*
- Dec. 17 Ken Smith (Chairman NRCB): *The Earth Sciences and Sustainable Development.* Third Annual Holiday Season Luncheon Special.

Darcie Greggs chaired the division until June, when Dave Elliott was elected to succeed her. The division again participated in the Mayor's Environmental Expo, with a display on the geology of the Calgary region. Over 5,000 copies of our brochure, *Planning and Managing the Human Environment*, have been distributed internationally and the society is donating a further 1,200 copies to IUGS, which also has plans to translate the brochure into other languages.

**HYDROGEOLOGY DIVISION** (Jim Letourneau, Chairperson; Kaush Rakhit, past-Chairperson; Steve Burnie)

The Hydrogeology Division activities to date have revolved around a regular series of informal monthly noon hour lectures. In 1993, six lectures were presented on petroleum hydrogeology. Talks were held in Mobil Oil Canada's second floor auditorium at 330-5th Avenue S.W.

The division developed a mailing list and sent out three newsletters in 1993. Mailing expenses

were covered by Hydro Petroleum Canada Ltd., the ISPG, and the International Association of Hydrogeologists.

In addition to the technical lectures there were two meetings relating to a proposed hydrogeological/geochemical atlas of the Western Canada Sedimentary Basin.

The 1993 talks were:

- Apr. 15 Kaush Rakhit, Rakhit Petroleum Consulting Ltd.: *Spatial variability of formation waters in the Western Canadian Sedimentary Basin.*
- May 27 Henning Lies, Hydro Petroleum Canada Ltd.: *Common misconceptions in hydrodynamics.*
- Jun. 16 Eric Dahlberg, ECD Geological Specialists Ltd.: *Hydrodynamic oil plays and prospects: Geology, hydrogeology, risk, and luck.*
- Sep. 9 Hugh Abercrombie, GSC, *Hydrogeological and Geochemical Atlas of the Western Canadian Sedimentary Basin.*
- Oct. 28 Steve Burnie, Mobil Oil Canada and Henning Lies, Hydro Petroleum Canada Ltd.: *Views on accounting for variable density in the calculation of hydraulic head.*
- Nov. 18 Richard Johnson, Opus Petroleum Engineering Ltd.: *Water analysis, what is it and how do I get in on it?*
- Dec. 1 Hydrogeological/hydrochemical atlas meeting.
- Dec. 9 Dan Barson, Rakhit Petroleum Consulting: *Using hydrogeology in petroleum exploration: Data processing guidelines.*

I would like to thank the speakers for taking the time to organize and present their ideas in public. It is their efforts that allow the Hydrogeology Division to prosper. The division will build on the momentum created in 1993 and plans to have 10 technical lectures in 1994.

**STRUCTURAL GEOLOGY DIVISION** (John L. Varsek, Chairperson)

The Structural Geology Division enjoyed a successful year, buoyed in part by increased interest in Foothills exploration. It now hosts two presentation series, complimented by a September field trip, and is sponsoring a special session at the 1994 CSPG - CSEG Convention on the Geology of Triangle Zones: Geometry, Kinematics and Mechanics. The traditional

evening program continues to be held at the Boardroom of the Institute of Sedimentary and Petroleum Geology on the first or second Monday of each month, with a recess during the summer. A lunch time program, initiated in 1992 by Andrew Newson and continued by him during 1993, is held on the second floor of Mobil Tower One, Socony Room at irregular intervals depending upon speaker availability. The speakers and topics are listed below:

Evening Program:

- Jan. 11 Shumin Liu, Queen's University: *Centerfuge and Numerical Modelling of Duplex Structures.*
- Feb. 8 Elizabeth Clark, University of Calgary: *Regional Scale Middle Proterozoic Deformation in the Subsurface of the Anderson Plains, Northwest Territories.*
- Mar. 8 Robin Slotboom, Imperial Oil Resources Ltd.: *The Triangle Zone in the Jumping Pound - Wildcat Hills Area.*
- Apr. 5 James Dobson, PanCanadian Petroleum Ltd.: *Geometric and Kinematic Evolution of the Highwood Range, Southwestern Alberta.*
- May 3 Charles Ferguson, University of Calgary: *The Northern Cariboo Mountains Foldbelt: Structural Link Between the Rocky Mountains and the Omineca Belt.*
- Oct. 4 Roland Deschene, PanCanadian Petroleum Ltd.; Larry Lane, ISPG; Don Cook, ISPG; Thomas Kubli, Mobil; Andy Newson, Consultant; John Varsek, Petrel Robertson; Don Lawton, University of Calgary: *Slide Night, Visualizing Structural Geology.*
- Nov. 8 Michael Enachesu, Husky Oil International Corp.: *Syntectonic Faults of Rift Basins.*
- Dec. 6 Paul MacKay, Amoco Canada Petroleum Company Ltd.: *Structural Style in the Hangingwall of the Livingstone Thrust.*

Lunch Time Program:

- Jan. 19 Thomas Kubli, Mobil Oil Canada: *The Dogtooth Duplex, a Model for the Structural Development of the Northern Purcell Mountains.*
- Mar. 31 Roland Dechesne, PanCanadian Petroleum Ltd.; Robin Slotboom, Imperial Oil Resources Ltd.; Paul MacKay, Amoco Canada Petroleum Ltd.; Sumin Liu, Queen's University: *What are Triangle Zones?*

- Aug. 25 Konstantin Soborov, VNIGNI - All Russia Geological Research Institute, Moscow: *Foreland Thrust Belts of the Former USSR*.
- Sep. 29 Alan Gibbs, Midland Valley Ltd., Glasgow: *Balancing in the Fourth Dimension*.
- Oct. 27 Paul Heffernan, Hef Petrophysical Consulting Inc.: *Missed Opportunities Because of Poorly Processed Dipmeter?*

The lunch time presentation series is proving to be popular with members of the petroleum industry, with an average attendance of about 40. Topics are generally of an applied nature, relating to the measurement and analysis of structures for hydrocarbon exploration. It is an appropriate forum for commercial interests to describe the technical innovations employed in their services, provided that blatant promotion is avoided; sponsorship, however, does not imply that the CSPG endorses those products. This event is supported by Mobil Canada who provides the meeting room and visual aids, and BFR Geophysical Consultants who provide notification for the meetings, and much appreciated coffee and pastry.

The evening presentation series consists of talks of 45 to 60 minutes duration with ample time for questions (up to 30 minutes) from an informed audience ranging from 15 to 30 persons. Topics are generally on theoretical structural geology, field studies and tectonic synthesis, with an emphasis on the eastern Canadian Cordillera. The Institute of Sedimentary and Petroleum Geology/Geological Survey of Canada, with the assistance of Larry Lane, continues to generously provide facilities for meetings. A highlight of this year's program was the slide night when eight speakers entertained their colleagues with spectacular images of geological deformation obtained by a variety of techniques, including a video fly-by through a triangle zone and an astrobleme image on 3-D seismic data. An equally memorable occasion, albeit for entirely different reasons, was the field trip on September 10-11 led by Paul MacKay, Amoco Canada. Seventeen hardy participants examined the Chungo structure, located about 20 km northwest of Nordegg, to test the triangle zone hypothesis. The participants endured bracing downpours while standing knee deep in the Chungo Creek. The resulting discussions over pots of coffee at the Nordegg Lodge helped to

clarify the geology and ward off hypothermia. Transportation and refreshments were provided by Mobil, PanCanadian and Petrel Robertson.

The ad hoc committee of the Structural Geology Division consisting of Roland Dechesne, PanCanadian, Thomas Kubli, Mobil, Paul MacKay, Morrison and John Varsek, Amoco is sponsoring a symposium on triangle zones, with a reference to examples from southern Alberta and their associated hydrocarbon traps, at the 1994 CSPG - CSEG Convention. As of December 1, approximately 20 papers are being submitted for verbal and poster presentation. A three-day field trip to examine classic exposures in southern Alberta is part of the convention program. Substantial support for publication of the proceedings by contributors is being considered for a special issue of the Bulletin or a CSPG Memoir, sometime in 1995. Additional committee members will be required to fill various operational and editorial functions.

The 1994 Structural Geology Division chairman will be Paul MacKay of Morrison Petroleum Ltd. who will assume responsibility for the evening program and annual field trip, and will co-ordinate the liaison with the CSPG executive and convention committee for the Triangle Zone symposium. The co-chairman and host for the lunch time program will be Thomas Kubli of Mobil Canada.

**INTERNATIONAL DIVISION** (George Pastirik, Chairman; Jim Taylor, Secretary; Don Homes)

The International Division attempts to hold monthly meetings covering various aspects of petroleum exploration in areas outside of Canada. Our talks were held at Mobil Oil Canada's second floor meeting rooms, 330 - 5th Avenue S.W. We would like to thank Mobil Oil Canada for providing us with the use of their facilities for our talks. We would also like to thank BFR Geophysical for their contribution of refreshments to our meetings.

Talks presented during 1993 were as follows:

- Jan. 12 Lee Slind and Otto Friedenreich, Alconsult: *Review of Hydrocarbon Exploration in Nepal*.
- Feb. 9 Mike Cecile, Geological Survey of Canada: *Review of the Geology of the West Siberian Basin* (Highlights of the 1992 CSPG-GSC field trip).
- Mar. 30 Zeev Berger, Esso: *Preliminary Structural Evaluation of Sedimentary Basins using Integrated Analysis of Satellite Imagery, Gravity, Magnetism and Regional Seismic Data*.



- Apr. 27 Jeremy Mathalone, Eurocan USA: *Petroleum Geology of the Peruvian Subandean Basins.*
- May 19 Herve Collet, BZH Petroleum Consultants: *General Overview of Exploration in Algeria.*
- Jun. 15 Richard Dingwall, Mosbacher: *Why, Where and How International?*
- Oct. 21 Tom Boleantu, The Expatriate Group: *Working Overseas – Employment Opportunities, Tax Planning and Culture Shock.*
- Nov. 9 George Sutherland, Canadian Petroleum Training Institute: *Bolivian Update: Exploration and Hydrocarbon Potential of Bolivia;* and John Pflueger, International Geophysical Consultants: *The Tundy Field, (Bolivia)-Case History of a 3D Seismic Survey.*
- Dec. 1 Khalil Kirmani, Kirmani Geological Consultants: *Geology and Hydrocarbon Potential of Western Libya.*

In the spring, Al Jenik had to resign from the International Division after three and a half years as Chairman, due to overseas commitments with Technica. I would like to take this opportunity to thank Al and Don for providing me with such a good example, and also to thank Jim Taylor for his hard work on behalf of the division. Jim is responsible for booking the meeting rooms through Mobil, as well as arranging all advertising outside the CSPG.

The International Division has started a computer database of individuals wishing to stay informed of division activities beyond the regular talks advertised in the *Reservoir*. If you would like to be added to the database, simply attend one of our meetings and leave a business card. If you have ideas for presentations, please contact George Pastirik at (403) 274-7878.

**GEOMATHEMATICS AND COMPUTER APPLICATIONS DIVISION** (Paul Price, Chairperson; Richard Leishman, Vice-Chairperson and Publicity Co-ordinator; Bim Waters, Program Director; and Katrina Olsen-Heise, COGS Liaison)

1993 was another very successful year for the Geomathematics and Computer Applications Division. This year, the executive was expanded to include all those noted above. The group continued with its free lunch hour presentation

series. Presentation topics were chosen that would cover timely material of interest to petroleum industry professionals (geologists, geophysicists and engineers) and that would foster closer inter-disciplinary discussion in the rapidly-changing realm of applied geomathematics and computer applications. Each talk consists of a 30 to 40 minute multimedia presentation followed by an audience interactive question and answer session. Attendance varies from 25 to 200 depending on the speaker and topic.

Our 1993 program consisted of:

- Jan. 6 Mike McCormack, P.Eng., Fractal Solutions: *Application of Fractal Mathematics to Well Log Analysis.*
- Feb. 10 Dr. Mike Marchand, VP Product Research Facet Decision Systems Inc.: *Spatial Information Systems in the Energy Industry.*
- Mar. 17 Dr. Li-Ping Yuan, Alberta Geological Survey: *Computer Visualization of Scattered Geologic Data.*
- Apr. 21 Phil Turner, Marketing Representative, IBM Canada: *OS/2 .... A Step into the Future?*
- May 20 Dr. Fritz Agterberg, GSC - Ottawa, *Spatial Analysis and Correlation of Geological Map Patterns.*
- Sep. 15 Dr. Peter Dankers, Dankers and Associates: *Geological Software: Do you get what you need?*
- Oct. 21 Dr. Fons Dekker, Fons Dekker and Associates: *Why is  $7 \times 256 = 26,000$  in Remote Sensing?*
- Nov. 18 Dr. Ernie Perkins, ARC: *Geochemical Modelling Software.*
- Dec. 15 R. Mohan Sivastava, FSS International: *The Visualization of Spatial Uncertainty.*

**GEOCHEMISTRY DIVISION** (Jim Allan, Chairperson)

The Geochemistry Division has been inactive this year.

**COAL & COAL BED METHANE** (Lawrence Smith, Chairperson)

No report available.

**PALEONTOLOGY DIVISION** (Charles Henderson, Chairperson)

No report available.

**RESERVOIR/DEVELOPMENT GEOLOGY** (Darren A. Steffes, Chairperson)

No report available.

**CANADIAN PETENTIAL GAS COMMITTEE**

(J.S. (Jim) MacDonald, Chairperson)

No report available.

**LIAISON COMMITTEES**

**AAPG HOUSE OF DELEGATES** (Martin D. Hewitt, Chairperson; Donald Keith, Craig F. Lamb, Bruce G. McIntyre, Benjamin T. Robertson, George Eynon, Syed M. Hasan, William J. Haskett, Dean E.G. Potter, Gary P. Smith, Peter A. Harrington, Alfred A. Hartling, John R. Hogg, David S.A. Mackie, Robert C. Mummery, John N. Ostrom)

The Canadian Society of Petroleum Geologists (CSPG) is an affiliated society of the American Association of Petroleum Geologists (AAPG) and, as such, is entitled to representation within the AAPG's House of Delegates. For the purpose of delegate allocation, the CSPG is designated the "local" society for all AAPG members in Alberta and British Columbia and is entitled to one delegate for every 70 active AAPG members. In 1993, the CSPG was represented by 17 delegates who serve three-year terms.

The House of Delegates oversees all legislative affairs within the scope of the Constitution and Bylaws of the AAPG. In addition to these legislative duties, delegates also check qualifications and process all AAPG membership applications and Certified Petroleum Geologist applications submitted from Alberta and British Columbia. During 1993, there were 16 applications for AAPG membership from Alberta and British Columbia and one application for certification.

During the 1992-1993 term, the group met nine times and the annual meeting was April 25th in New Orleans during the AAPG annual convention. The New Orleans meeting was significant for the CSPG delegates. A bylaws change was endorsed which provides for active international members who are not members of local affiliated societies (such as the CSPG) to seek representation in the House of Delegates on an at-large basis. The CSPG delegates first recognized this lack of international representation in 1990 and had since been pursuing a bylaws amendment which was successfully passed in New Orleans. John Hogg has been asked to chair an ad hoc committee of the House charged with recommending a mechanism to implement this bylaws change. The findings of

this committee will be reviewed at the 1994 annual meeting in Denver.

In addition to this bylaws change, a motion to modify the procedure for recommending suitable candidates for the executive committee role of editor failed; a motion to allow the chief elected officer of each division the right to denote an alternate for one advisory council meeting passed and a motion to increase the ceiling of allowable membership dues increases failed. A motion to change the wording in the constitution of the purpose of the AAPG to reflect a change to a more economically and environmentally conscious association passed. Applications for affiliation from the national geological associations of Austria and Mexico as well as the state geological association of Missouri also passed. Gerald Cooley was elected House Chairman, Steven Veal - Vice Chairman and Joseph Samuels as Recording Secretary for the 1993-1994 term. Marty Hewitt will serve on the Nomination and Elections Committee for the 1993-1994 term; it is charged with putting together a slate of candidates for the House Executive to be voted on at the 1994 Denver meeting.

During 1993, the CSPG delegates held an election to replace those delegates whose three-year terms expired July 1st. A total of three delegates were elected from a slate of 10 candidates. Kathy Lapointe, Rodney Handfield and Bob Sullivan will serve three-year terms until July 1st, 1996.

During the 1993-1994 term, the CSPG delegates will focus on modifying the associate membership category to allow broader access to potential members who do not qualify for active membership. Such a bylaws change would hopefully assist in bolstering declining membership numbers. In addition, the delegates will focus on assisting junior members who are eligible for active membership to convert their membership status. There are over 160 such members in Alberta and British Columbia. The conversion of these members to active status would allow the CSPG to have two additional delegates.

**WORLD PETROLEUM CONGRESS LIAISON COMMITTEE** (Mike Hriskevich, Chairperson)

The 14th World Petroleum Congress will take place from May 29 to June 1, 1994 in Stavanger, Norway. The theme of the Congress is, *Petroleum in a World of Sustainable Growth*.

Plans for the technical sessions are well underway, and, as usual, Canada will be well represented on the technical program with 41

either presenting papers or acting as chairmen. The main activity of the Canadian Association – World Petroleum Congress during 1993 was to prepare and submit a bid to have Calgary as the host city for the 15th World Petroleum Congress scheduled for 1997. Although Canada's bid was vigorously pursued, the decision was made to hold this Congress in China. Venezuela was the other contender. The Canadian Association will re-submit their bid to hold the 16th Congress in Canada in 2000.

The annual meeting of the association took place June 18, 1993 with G. Maier as chairman. The association is financially sound and 1994 dues were set at \$1,000 for sponsoring members and \$50 for associate members. (The CSPG is an associate member).

**CANADIAN GEOSCIENCE COUNCIL (CSPG Representatives, Alice V. Payne, Jim MacDonald)**

The council has five major roles:

1. to advise the general public on matters of significance to Canada and to the world that involve geoscience and geoscientists;
2. to provide expert advice to governments at the federal and provincial levels;
3. to promote scientific awareness and education in Canada;
4. to organize Canadian participation in non-governmental global co-operative programs in the earth sciences; and,
5. to provide an accountability and reporting centre for major co-operative geoscience projects in Canada and for Canadian contributions to similar international projects.

The Geoscience Council met in Edmonton in May in conjunction with GAC/MAC and in Sudbury in September. The CGC president, John Gartner, has requested that the future direction of the CGC be discussed at the January, 1994 meeting in Ottawa.

One of the current major projects of the CGC is the EdGeo program chaired by Bob Greggs. Other important geoscience projects, Lithoprobe and ODP, were strongly supported by the CGC in spite of funding cutbacks by the GSC. The CGC has also endorsed the CSPG's Canadian Potential Gas Committee.

Jim MacDonald has completed his two-year term as representative to the CGC. In 1994 the CSPG will be represented by A. Payne and Peter Putnam, both past presidents.

**NORTH AMERICAN COMMISSION ON STRATIGRAPHIC NOMENCLATURE (NACSN) (R.W. Yole and Brian R. Pratt, CSPG Commissioners)**

Activities during the past year include:

1. solicitation of opinions from academic and industry professional colleagues on formalization of sequence stratigraphic units in the North American Stratigraphic Code;<sup>1</sup>
2. review of draft of second edition of International Stratigraphic Guide and glossary, presented at NACSN 1992 meeting by Amos Salvador on behalf of the International Subcommittee on Stratigraphic Classification (ISSC);
3. consultation with other members of NACSN nominating committee leading to nominations for executive positions for 1993-94;
4. attendance at the 48th annual meeting of NACSN, Boston, Mass., October 25, 1993 (also attended by B.R. Pratt);
5. preparation of record of proceedings of the annual meeting.

Highlights of the NACSN annual meeting are outlined below. Complete minutes appear biennially in AAPG Bulletin, the latest set being those for 1988 - 1990.<sup>2</sup>

Reports of activities were presented by Chairman Don Owen (Lamar University, Beaumont, TX) and Don Cook (GSC-ISP, Calgary)

The proposed Hydrostratigraphic Units Amendment to the 1983 North American Stratigraphic Code, mentioned in last year's report, has yet to reach publication stage. A required explanatory note to accompany the submission to AAPG Bulletin is being prepared.

The proposed amendment to the Code intended to clarify the relationships between Allostratigraphic and Lithostratigraphic units has advanced to the publication stage<sup>3</sup>, providing the opportunity for wide discussion and comments before a vote for formal adoption is taken at an NACSN annual meeting. Communications should be addressed to Donald E. Owen, Department of Geology, Lamar University, P.O. Box 10031, Beaumont, TX 77710.

The impending publication by the Geological Society of America of the second edition of the International Stratigraphic Guide presents the possibility of some confusion, as the GSA supports the use of the somewhat different North American Stratigraphic Code in its publications. Avoidance of potential difficulties will be attempted by discussions with representatives of the ISSC.

Don Owen, on behalf of the NACSN committee on Allostratigraphy/Sequence Stratigraphy, revealed the distribution of different kinds of responses of professional geoscientists to the

NACSN request for opinions on the formalization of sequence stratigraphic units. In addition to publishing the request in major geoscience journals, a poster session on the topic was given at the 1993 AAPG Annual meeting in New Orleans to enlarge the opportunity for professional stratigraphers to make their wishes known. The number of written responses was not large (27), but, combined with oral opinions given to some commissioners, appears to reasonably reflect the range of feelings about this important subject. The largest number of respondents (11) did not favour formalization (No category). The next most common response (8 replies) was for delay of implementation until more information and/or experience available (Not yet). Another group (6) gave tentative responses, indicating possible later approval (Maybe). The smallest number of answers (2) clearly supported action toward formalization (Yes Category). Commissioners considered these results important enough to warrant a note in the AAPG *Bulletin*, to be prepared by Don Owen and to include a summary of reasons given by respondents in support of their submissions.

Acting on instruction from the 1992 NACSN meeting, Commissioners R.E. Easton (OGS, Sudbury), L.E. Edwards (USGS, Reston, VA), R.R. Jordan (Delaware GS, Newark, DE) and D.E. Owen submitted a discussion paper<sup>4</sup> to GSA *Bulletin*. The discussion attempts to clarify the status and usage of the North American Stratigraphic Code in response to a critique by W.B. Harland<sup>5</sup> of stratigraphic regulation and guidance.

Donald G. Cook (GSC representative) will serve as chairperson of NACSN for 1993-94, assisted by vice-chair Donald L. Baars (GSA) following election based on candidates brought forward by the nominating committee.

<sup>1</sup> NACSN, 1983, North American Stratigraphic Code: AAPG *Bulletin*, v. 67, p. 841-875.

<sup>2</sup> NACSN, 1992, Note 59: AAPG *Bulletin*, v. 76, p. 1933-1934.

<sup>3</sup> NACSN, 1993, Note 60: AAPG *Bulletin*, v. 77, p. 909.

<sup>4</sup> Easton, R.M., Edwards, L.E., Jordan, R.R., Owen, D.E., 1993, Stratigraphic regulation and guidance: A critique of current tendencies in stratigraphic codes and guides: Discussion: *Geol. Soc. America, Bulletin*, v. 105, p. 1135-1136.

<sup>5</sup> Harland, W.B., 1992, Stratigraphic regulation and guidance: a critique of current trends in stratigraphic codes and guides: *Geol. Soc. America, Bulletin*, v. 105, p. 1231-1235.

**APEGGA STUDENT AFFAIRS** (Steve Schroeder, Chairperson)

No report available.

**CSPG/CSEG/APEGGA LIAISON** (Roy Stuart, Chairperson)

No report available.

**NATIONAL CONFERENCE ON EARTH SCIENCE** (Peter Aukes, Chairperson)

No report available.

**NATIONAL LIAISON COMMITTEE** (Mario Coniglio, Chairperson)

No report available. New chairperson is Louise Quinn, Brandon University.

**CSPG/GAC LIAISON** (Ian McIlreath, Chairperson)

No report available.

## PUBLICATIONS

**PUBLICATION COMMITTEE AND PUBLICATIONS REVIEW BOARD** (R.C. Hankel, Chairperson; A. Embry, G. Eynon, P. Harrington, P. Putnam, H. Speelman)

The Publications Committee co-ordinates 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 co-ordination of publication matters, reports directly to the executive and sits as an ex-officio member. 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.

The Society publishes two periodicals, the quarterly journal, *Bulletin of Canadian Petroleum Geology*, and the monthly newsletter, *Reservoir*. It also co-sponsors, with GAC, the *Palaeontographica Canadiana* series. In addition, the Society publishes an annual calendar and intermittent special publications such as *Memoirs and Lexicons*.

During 1993, two external publications received CSPG financial support, namely *Edmonton Beneath Our Feet* published by the Edmonton Geological Society, and *The Land Before Us: Alberta's Geological Past*, a publication of the Royal Tyrrell Museum (still being completed). The publishing of the *Geological Atlas of the Western Canada Sedimentary Basin*, co-sponsored by CSPG, the Alberta

Geological Survey, the Alberta Department of Energy, and the Geological Survey of Canada, was delayed due to contractual details and final editing procedures. Final Publication of the *Atlas* is to be Spring, 1994.

**BULLETIN OF CANADIAN PETROLEUM GEOLOGY** (A.F. Embry, Editor; B. Chiang, Managing Editor; K. Wade and C. Frey, Production Editors; C.L. Riediger, Book Review Editor; P. Aukes, J.R. Boles, M. Bustin, N. Chow, F.A. Cook, S. Creaney, T. Hamblin, B. Jones, F. Longstaffe, Associate Editors (until December 1993); J.F. Barker, J. Bloch, D. Gendzwill, J. Headley, T. Moslow, G. Reinson, M. Whiticar, Associate Editors (until December 1994); R. Arnott, M. Fowler, T. de Freitas, J. Hogg, L. Lane, M. Savard, G. Stockmal, A. Sweet, Associate Editors (until December 1995); D.W. Work, Bulletin Advertising)

Ian Hutcheon stepped down from being the editor of the *Bulletin* in January, 1993 after an outstanding five years of service. Ian's hard work, dedication, diplomacy and keen sense of what constitutes good science all resulted in the *Bulletin* being a very high quality publication which always arrived on time. During his tenure many excellent papers were published and two special issues of the *Bulletin* also appeared. On behalf of the Society, I would like to express our deepest gratitude to Ian for all the effort and time he generously gave to us all through his editorship.

Volume 41 of the *Bulletin*, published in 1993, consisted of 477 pages and contained 27 scientific papers. Over the last year, 32 new manuscripts were received. Thanks to the diligence of our associate editors, manuscript reviewers and production editors, the scientific content continues to be of high quality and all accepted papers were published within 10-14 months of receipt.

**RESERVOIR** (Blythe Slater, Chairperson & Editor; Jill Rehman, Editor; Dave Work, Advertising Chairperson)

This year 11 issues were published for distribution to the membership. Submissions were, in general, received on time (much appreciated!). The CSPG office, for the past 18 months, has proven to be an efficient collection point for submissions.

Early in the year, a review was done of the *Reservoir's* printing contract and it was decided that printing should continue to be done by Sundog Printing Ltd.

The purchase of a MacIntosh system for the editors to use for typesetting and doing issue paste-ups has been seriously considered. Over the past year these activities have been done by Westend Creative Corporation. Distribution of the *Reservoir* was handled this year by Global.

Throughout the year two new columns were introduced: first, an invitation was extended to the membership living abroad to submit articles on their experience in far off lands and recently, a request was issued to the membership to submit letters to the editors for publication in the *Reservoir*.

In 1994, the *Reservoir* Committee hopes to continue to focus on the quality of the *Reservoir*, production costs and minimizing turnaround time between the editors, Westend Creative and Sundog. An attempt will be made to encourage other CSPG committees to submit articles or announcements to the *Reservoir* as a means of communicating their purpose and plans to the membership.

Early in the year, Dave Work replaced Peter Harrington as advertising chairperson, and in mid-year, a new editor, Jill Rehman, joined the team to share responsibilities. Lisa-Henri Kirland, an editor for six years and chairperson of the committee for most of that time, stepped down in November. Blythe Slater assumed the chairperson role.

**GEOLOGICAL ATLAS OF THE WESTERN CANADA SEDIMENTARY BASIN** (Grant Mossop, Chairperson)

Compilation of the *Atlas* was officially launched in early 1987, following a 16-month feasibility study. The compilation was planned as a five-year project, but with progressive increments in the scope of the work, coupled with delays both in marshalling the scientific work and producing the text and graphics for publication, the compilation is now running at seven years. At the time of writing, publication of the *Atlas* volume is still a few months away.

In 1993 the *Atlas* Management Committee, comprised of representatives of the four project sponsors (CSPG, GSC, ARC and AE), shepherded the project through a number of shifts in "rate step" - that node in responsibility and activity that controls the overall pace of progress. At the beginning of 1993, the rate step continued to rest with the authors of certain chapters. But with the finalization of the last few of the 35 *Atlas* chapter



manuscripts, the rate step evolved to the graphics processing function. Once the bulk of the digital drafting had been completed by mid-summer, the rate step shifted to the production stream – final editing and layout, proofing, film work, more proofing, plate-making, printing and binding. At the time of writing, most of the film work is complete and proofed, with printing to start as soon as contract details are settled between the society, which is underwriting all production costs, and Quality Colour Press Limited, the printer.

The printed volume is now so near completion that virtually all aspects of its contents and appearance are set. It comprises 510 large-format pages (plus 12 foreleaf pages), weighs 11 kilograms, and is to be made available in two, hard-cover bindings (both fixed at the spine with screws, one with screw heads exposed to allow for detachment of selected pages). The selling price is \$185 plus GST. Purchasers of the printed volume are to be given a voucher entitling them to a copy of the electronic *Atlas* database of control well information (\$10 handling charge). The *Atlas* database is otherwise available for a price of \$100. At year's end, the *Atlas* data had been subjected to exhaustive final testing and documentation. The electronic information upon which the *Atlas* maps are based should be available from the Alberta Geological Survey at about the same time as the printed *Atlas* volume.

In summary, 1993 has been dominated by production activity, as opposed to scientific work *per se*. Delays in production, many of which were unanticipated, have produced certain frustrations, but the goodwill and determination of the principals has remained undaunted. I am very grateful to all those who have repeatedly gone well beyond the call of duty in seeing to the completion of the *Atlas*.

Festivities for the launch of the *Atlas* are being carefully planned. It will be a happy occasion.

**MEMBERSHIP DIRECTORY** (Peter W. Hay, Chairperson)

The last CSPG *Membership Directory* was printed in June, 1992, and listed members alphabetically, by company affiliation and by geographical location. An updated *Membership Directory* had been scheduled for spring 1993 but the CSPG Executive decided to postpone compilation and publication until spring 1994. The same format as earlier directories will likely be followed, including a service company section.

**ATLAS FINANCE COMMITTEE** (Art Slingsby, Chairperson; Alice Payne, Morley Brown, Stephanie Lander)

The compilation of the new *Geological Atlas of the Western Canada Sedimentary Basin* has been a long and complex endeavour that has involved hundreds of people and organizations. The CSPG's commitment to finance the printing of the *Atlas* is the *raison d'être* of this committee and to that end, the committee has, since 1987 raised over \$500,000 in donations from over 320 companies and individuals. The committee is no longer actively soliciting donations but continues to receive money pledged by a number of companies on an installment basis.

The vast majority of the money in the fund has been turned over to the CSPG as the *Atlas* project enters the production stage. During 1993, the fund committed to expenditures of over \$245,000 for paper purchases, graphic design and film work. As this stage of the *Atlas* project progresses, the fund will provide all the money required by the CSPG to fulfill its original commitment for printing plus additional money required for graphics and film work.

The duties of the committee are somewhat reduced from that of a few years ago when the fundraising drive was in full swing. When the *Atlas* is finally finished, however, one very pleasant duty will remain. That is to see to the distribution of the hundreds of complimentary atlases to the patron and benefactor companies and individuals whose generous contributions have made this project possible.

**PALAEONTOGRAPHICA CANADIANA, GAC-CSPG JOINT COMMITTEE ON PALEONTOLOGICAL MONOGRAPHS** (Alexander D. McCracken, Chairperson; Brian R. Pratt, Vice-Chairman; David H. McNeil, Secretary; Tim R. Marchant and Ross A. McLean, Business Managers; Peter H. von Bitter, *Palaeontographica Canadiana* Editor; Monica Easton, GAC Editor; Rory Hankel, CSPG Editor; Joan Burke (Royal Ontario Museum), Technical Editor)

The CSPG and the Geological Association of Canada are the sponsoring societies of the 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 name of the monograph series is *Palaeontographica Canadiana*. The first monograph in this series was published in 1983; Number 10 was published in 1993.

One monograph was published in 1993: *Palaeontographica Canadiana No. 10* by E.E. McIver and J.F. Basinger: *Fossil Flora of the Paleocene Ravenscrag Formation, Southwestern Saskatchewan, Canada* (19 April 1993).

Other manuscripts in varying stages of completion are:

*Palaeontographica Canadiana No. ?*: *Sunwaptan (Upper Cambrian) trilobites of the Rabbitkettle Formation, Mountain River region, District of Mackenzie*, by Stephen R. Westrop. The manuscript has been scientifically reviewed, changes incorporated by author and is now going through a final editing prior to typesetting. No publication date has been set.

*Palaeontographica Canadiana No. ?*: *Valanginian Foraminifera and biostratigraphy of the McGuire Formation, Northwest Territories*, by Sharon P. Fowler and James Dixon. The manuscript has been scientifically reviewed and is back with authors for revision. No publication date has been set.

*Palaeontographica Canadiana No. ?*: *Taxonomie des petits Foraminifères du Carbonifère-Permien Inferieur du Bassin de Sverdrup, Artique Canadien*, by S. Pinard and B. Mamet; invited Editor, Fabrice Cordey. The manuscript is presently with the senior author for revision prior to formal submission. It has not been scientifically reviewed nor has a publication date been set.

**OIL AND GAS POOLS SERIES** (Mike Rose, Chairperson)

The most significant development in 1993 was the initiation of a Northwest Territories pool compilation with NWT Oil and Gas group. This 13 pool compilation will be completed in April, 1994.

The committee will be expanded in early 1994 and activity will be increased to generate sufficient new pool studies to publish a new volume of the *Oil and Gas Pool of Canada* series in late 1994.

The 1992 update completed the volume released in 1990; hence, the planned 1994 release will initiate a second new volume in the series.

**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 Fieldtrip Guidebooks* and special publications by selecting key words and reference terms under which those papers might be found. All 1993 *Bulletin* papers, sorted by subject, author, and NTS area were printed in the December, 1993 *Bulletin*. The committee is up to date with the indexing and the material has been sent to Ottawa for input into GEOSCAN, the Canada-wide index of geological data. Once the data have been input we will publish an update to our last comprehensive index.

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

**LEXICON: BRITISH COLUMBIA AND S.W. YUKON** (W.R. Danner and T. Hoy, Editors)

Most of the 1993 work on this lexicon was devoted to revisions of previous entries. Much of the new work of the Geological Survey of Canada and the B.C. Geological Survey has been published although some DNAG material has only recently become available (or is not yet available). Some parts of B.C. are not well represented and new contributors are being sought. It is hoped that all entries will be completed by the winter of 94/95.

**LEXICON: CENTRAL CANADIAN SHIELD** (M.J. Frarey, Chairperson)

In 1993, work on this committee was confined to revision of previous draft entries for the *Lexicon* and preparation of a few new entries.

Progress in the coming year will depend on contributions from membership. To improve input, the committee membership will need revamping, which hopefully, can be accomplished in the coming months.

**LEXICON: ST. LAWRENCE LOWLANDS-CENTRAL CANADA – H.B. LOWLANDS COMMITTEE** (Tom Bolton, Chairperson)

*Lexique Stratigraphique Canadien volume V-B Région des Appalaches, des Basses-Terres du Saint-Laurent et des îles de la Madeleine* by Yvon Globensky et collaborateurs published spring 1993 by the Ministère de l'Énergie et des Ressources du Québec DV 91-23.

Compilation of the Ontario Paleozoic stratigraphic terms (*Volume V-A*) is continuing with the assistance of Derek Armstrong, Ontario Geological Survey, Sudbury.

## BUSINESS COMMITTEES

**ADVERTISING COMMITTEE** (David Work, Chairperson; Sing Lau, Jim Letourneau, Safaa Seif El-Dein, Lisa Sadownyk, Dave Christensen)

Revenue from advertising was up 1% from 1992. The *Reservoir* continues to remain the largest source of revenue. Luncheon advertising is becoming very popular and was up 15% from last year. No membership directory was published in 1993 but an edition is planned for 1994.

REVENUE (gst incl.)	1993	1992	1991	1990	1989	%change (93 vs 92)
<b>RESERVOIR</b>						
Inserts	\$ 8,132	\$12,185	\$19,014	\$ 8,525	\$22,578	(33%)
Internal	40,297	36,898	41,982	38,645	31,542	9%
Total	48,429	49,083	60,996	47,170	54,120	(1%)
<i>Bulletin</i>	1,647	2,327	2,885	3,491	5,014	(29%)
Lunch.	7,015	5,939	6,563	4,550	4,625	18%
Calen	8,400	8,260	5,570	4,000	3,000	1.5%
Mem.Dir.	0	0	6,886	0	0	
Total	65,491	64,618	83,000	59,211	68,759	1.5%
Adjustment	0	0	(6,986)	4,430	0	
<b>TOTAL</b>	<b>\$85,491</b>	<b>\$84,618</b>	<b>\$76,014</b>	<b>\$63,641</b>	<b>\$68,759</b>	<b>1.5%</b>

It is anticipated that 1994 will see a marked increase in advertising revenues for the society given the upswing in the industry and the positive mood of service and supply companies. One of the main objectives of the advertising committee in 1994 will be to increase the number of clients using marketing opportunities with the CSPG. It is anticipated that the service industry will continue to recognize the excellent value available through CSPG advertising.

The committee would like to thank Jim Letourneau and Lisa Sadownyk for their contribution, both of whom will be leaving the committee in 1994. We would also like to welcome Dave Christensen as a new member of the committee.

**GOVERNMENT GRANTS COMMITTEE** (John R. Hogg, Chairman)

The main goal of the Government Grants Committee is to provide a mechanism for other committees to apply for both provincial and federal grants that are available to non-profit societies and scientific organizations.

The committee successfully applied for a Federal Government grant for student employment under the SEED program on behalf of the executive and the Student Industry Field Trip Committee (SIFT) in order to obtain funding for the employment of five geological summer students by various companies within the oil industry. Through this \$5,000 grant to the CSPG, the five students were employed for the entire

summer, under the auspices of the CSPG, at various oil companies in Calgary.

Any CSPG committees wishing to use the services of the Government Grant Committee in 1994 should approach us 12 to 18 months before the completion of their projects. This will allow for sufficient lead time for the various federal and provincial government agencies to process grant applications before the completion of any CSPG projects.

**PHOTOGRAPHIC COMMITTEE** (Vic Panei, Chairperson)

During 1993, the committee provided photographic coverage at most of the society's luncheon meetings as well as the Awards Dinner.

**GEOLOGICAL PLACEMENT SERVICE** (Bev Pfeffer, Chairperson)

The society maintains an up-to-date file of résumés of geologists seeking employment. There is no charge for this service.

**GROUP INSURANCE** (Bev Pfeffer, Chairperson)

CSPG insurance plans covering life, health, longterm disability, dental, auto, and home insurance offer competitive rates and continue to be well received by the membership.

**NOMINATING COMMITTEE** (Alice Payne, Chairperson; Ed Klován, Ric Sebastian, Hans Speelman)

The 1993 Nominating Committee produced the following slate of candidates for election to the 1994 Executive Committee:

President - F.G. (Rick) Young

Vice-President - George Eynon

Secretary - John Ostrom, Robert Pryde

Treasurer - Sue Rose

Director/Assistant Treasurer - Robert C. Mummery

Business Manager - Kevin Polan

Director/Assistant Business Manager - Dale Cederwall, Bruce MacIntyre

No candidates were nominated by the membership at large. The mail ballot totalled 660 ballots. Ballots were counted on December 16 by Peter Putnam, Kirk Osadetz, Mike Morrison, Rory Hankel, and Ric Sebastian.

The newly elected 1994 Executive Committee consists of:

President - F.G. (Rick) Young

Vice-President - George Eynon

Secretary - John Ostrom

Treasurer - Sue Rose

Director/Assistant Treasurer - Robert C. Mummery



Business Manager - Kevin Polan  
 Director/Assistant Business Manager - Bruce McIntyre

The new executive will take office at the annual meeting in February, 1994.

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

The membership figures for the last five years are:

	1989	1990	1991	1992	1993
Active	3255	3147	2956	2819	2669
Associate	192	176	197	189	171
Student	231	203	166	145	149
Emeritus	84	102	109	121	144
Corporate	65	66	62	49	52
Honorary	40	39	41	45	43
Total	3867	3733	3531	3368	3228
Subscriber	416	421	410	392	381

Active membership declined for the seventh year in a row. We are now at 77% of our 1986 high of 4,448. Student membership is also down to 50% of our 1985 high of 299. The membership committee welcomes any suggestions which may help to attract and keep new and current members. Send your ideas, complaints, thoughts, etc. to me c/o the CSPG.

**DISCIPLINE COMMITTEE** (A.V. Payne, Chairperson; M.P. Cecile, W.R. May, J.E. Klován, J.S. MacDonald)

One case was brought before the Discipline Committee for resolution. As a result, one member was suspended from committee work for five years.

**COMPUTER FACILITIES COMMITTEE ANNUAL REPORT** (Tom Lau, Chairperson; Kent Barrett)

The Computer Facilities Committee's main function is to provide systems support for the office staff and for the society's business. In 1993, the AST computer for the executive was upgraded with additional memory and mouse so it can run Windows' applications. Thanks to Coles Gilbert Associates for providing the memory chips and mouse. A low-cost, dot matrix printer was added for the use of the treasurer.

To avoid conflicts with the local area network system, most of the office applications have been moved to run under the Windows' platform. The membership database is using FoxPro 2.5 for Windows. Testing and enhancement for the new membership database software should be completed by next spring. The focus for next year is to improve efficiency and increase use. Thanks, also, to Kent for providing support.

**PUBLICATION SALES COMMITTEE** (Peter Harrington, Chairperson; Drue Robinson, Treasurer; Andrew Arthur, Paul English)

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

1993 was a transition year for the PSC. John Ostrom stepped down after many years as chairperson. Several of the members were also in transition with job changes in 1993. These factors, combined with the lack of new CSPG publications (the only new publications for 1993 were the Stratigraphic Correlation Charts and the 1993 Core Conference manual), the difficulty in attracting new volunteers with the current uncertain state of the oil industry and the fact that the AAPG convention was not held in Calgary this year, contributed to a downturn in sales.

CSPG sales were approximately \$48,000 in 1993, down substantially from the \$70,000 realized in 1992. The last memoir released by the CSPG (Memoir 16) was published more than two years ago in 1991. The memoir series is the CSPG's flagship publication and new releases are necessary to maintain sales levels. A new memoir is planned from the 1993 convention, and this publication will certainly increase sales in 1994. Another factor that will greatly increase sales in 1994 will be the release of the long-awaited *Geological Atlas of the Western Canada Sedimentary Basin*. If these two publications are, indeed, released in 1994, sales will likely increase several times over 1993's levels.

AAPG sales were approximately \$26,000 in 1993, back to a level of sales seen before the 1992 AAPG convention in Calgary, when the CSPG profited from all sales of AAPG publications at the convention. Sales picked up toward the end of the year as the AAPG released many new titles. We anticipate AAPG sales increasing in 1994 as the impact of the popular new releases continues to be felt. GAC sales were approximately \$7,000 in 1993. This is another source of revenue for the Society and also provides an additional service to our members.

The committee attended two conventions in 1993 (the CSPG convention in Calgary and the AAPG convention in New Orleans). The decrease in size of the committee from last year and the demands on members from other sources (most notably their employers) resulted in a drop in activity of the committee. Now that the new chairperson has seen one full year of activities, a more ambitious program is planned

for 1994. Advertising and promotions are planned to increase, both for existing publications as well as for any new CSPG publications. An exchange agreement with GSC will also attract new sales and allow the members access to some popular GSC publications at the downtown Calgary office.

The PSC would like to thank the contributions of its volunteers, as well as their employers. The committee is always looking for new members to help it reach its goals.

### SOCIAL EVENTS

#### **PAST PRESIDENT'S DINNER** (Alice V. Payne, Chairperson)

The 19th annual Past President's Dinner was held October 26, 1993 at the Penthouse of the Palliser Hotel. The dinner was attended by 31 past presidents of the Society and most of the 1993 Executive Committee members. President Peter Putnam spoke about the past, present, and future concerns and status of the society. There was a lively discussion about current activities, financial status, and the future direction of the CSPG.

#### **AWARDS DINNER AND SOCIAL** (John Chipperfield, Chairperson; Elspeth Snow, Ben Robertson)

The Awards Dinner and Social was held at the Palliser Hotel, February 5, 1993. The Society's awards were presented after a gourmet dinner, attended by the Honourable Pat Black, Alberta Minister of Energy and a number of other guests. The evening was capped with a colourful, illustrated account by Ed Schiller of the diamond discoveries in the NWT.

The CSPG's historical photo collection, set up by Jack Porter, was a welcome addition to the evening.

#### **MEN'S 33RD ANNUAL GOLF TOURNAMENT** (Bob Johnston, Chairperson; Foon Der, Gord Solomons, Andy Vernon, Monty Ravlich, Graeme Dales, George Hassler, Dave Clements, Les Guzowski, Duncan McCowan, Pat Ward, Mark Powell, Martin Thumwood, Fred Turner, Scott Oldale, Cal Gabel, Arnie Mathisen)

The 1993 33rd Annual Men's Golf Tournament was held June 16, 17 and 18 at Shawnee Slopes Golf Club. Due to the popularity of the event, we enjoyed a full compliment of golfers. I commend the 152 brave souls who battled the torrential downpour on the second day on their way to victory or defeat.

Special thanks from the committee and all the golfers to all the sponsors. Without their contribution, our tournament would not be the success it is.

This year's championship winner was Ray Madison who defeated Mike Chernoff in a well fought match. The winning chuckwagon team consisted of Fred Mazar, Martin Thumwood, Jack Park, Ken Smith and Greg Loughlin.

The 1994 tournament will be held again at Shawnee slopes June 15 - 17 and Bob Johnson has agreed to be chairperson for another year.

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

Logan Day was held this year on Saturday, October 2nd, again at Sandy McNabb Group Campground A. Despite lower attendance than we would have wished, it was a pleasure to have sunshine and blue sky all day and an evening singsong around the campfire. Horseshoes were played by many people and the east *versus* west soccer free-for-all attracted almost all of the men, most of the kids and even a few of the women! The usual obstacles of cow pancakes provided some interesting maneuvers in avoidance, but not all such attempts were successful. In some cases people just got carried away and forgot to watch out for obstacles!

Elspeth Snow acted as M.C. to introduce the toasters and guests. Betty Alert, a retired ISPG employee now living in Turner Valley, told us about some Historical Society special activities planned for next year to celebrate Turner Valley's connection with the oil industry. Ward Neale even postponed his holiday to toast J. Tuzo Wilson. Then Rudy Klassen (ISPG) invited everyone to join him in toasting the memory of Owen Hughes who worked at ISPG until his death a couple of years ago. Rudy brought a bottle of red wine which Owen had given Rudy on his 60th birthday 5 years previously. We also toasted Sir William Logan.

Gerald Sullivan accompanied our singsong around the campfire on his guitar. Elspeth Snow made glühwein (mulled wine as per Gisela Geldsetzer's recipe). A couple of hardy types camped over Saturday night and others wished that they had planned to do so.

Despite the smaller numbers, the general consensus seems to be to continue – with a small but select group of participants.

**CSPG SQUASH TOURNAMENT** (Matt Woofter, Chairperson; Hilary Foulkes, Chris Jones, Bob Lee, Bob Sullivan, Cynthia Visser)

A milestone was achieved by the CSPG Squash Tournament in 1993. The Tenth Annual CSPG Squash Tournament was held at the Edgemont Club February 26 and 27, 1993. Over the last decade, this tournament has gained the reputation as a premier squash and social event. This year's tournament continued the tradition. Participation was down from last year, with 75 men and 21 women competing. However, everyone enjoyed renewing contacts and making new friends both on and off the court. Numerous door prizes were awarded at the banquet, and festivities went well into the evening as worn-out weekend warriors rehashed squash exploits.

Hilary Foulkes retained the Ladies' Championship, the ninth time her name has graced this trophy. Hilary triumphed over Karen Bennett in a hard-fought match. This year's Men's "A" final again featured an exciting match between Dave Safton and John Cox. Dave outlasted John in another outstanding exhibition of squash and good sportsmanship.

The 1993 results are:

Ladies:

- A - Winner: Hilary Foulkes  
Runner-up: Karne Bennett
- B - Winner: Su Farrell  
Runner-up: Sarah Widdowson
- C - Winner: Carol Laws  
Runner-up: Jackie Person
- D - Winner: Lauren Raymore-Pohlman  
Runner-up: Cynthia Visser

Men's:

- A - Winner: Dave Safton  
Runner-up: John Cox
- A - Consolation - Winner: Dave Lochhead  
Runner-up: Keith Glenday
- B - Winner: Brent Snyder  
Runner-up: Taras Dzuiba
- C - Winner: Matt Woofter  
Runner-up: Alastair Stewart
- D - Winner: Jim Campbell  
Runner-up: James Muraro
- E - Winner: Edgar Hulatt  
Runner-up: Robert Pryde

A new trophy was presented in 1993 to an aging athlete who demonstrated the true spirit of the game. The Master's trophy was awarded to Dave Clements.

Last, but not least, the Horses "A" award went to Taras "Tarzan" Dzuiba.

The success that the CSPG Squash Tournament enjoys is due to the tremendous support it receives from industry sponsorship. Strong sponsorship has enabled the committee to organize a top quality recreational and social event. Numerous door prizes were well received by participants. The committee gratefully acknowledges this support, in particular, from:

Schlumberger of Canada  
Digirule  
Great Guns Logging  
BPB Wireline Logging  
Geomania  
Decollement Consulting

Martin Armitage will be a welcome addition to the committee in 1994. Martin, a keen squash player, will represent our colleagues from the CSEG. The committee expresses their sincere appreciation to Sue Kostynuik of Belloy Petroleum Consultants. Sue does an excellent job as our book-keeper.

The 11th Annual CSPG Squash Tournament will be held at the Edgemont Club February 25 and 26, 1994. Entry forms will be in the January, 1994 issue of the *Reservoir*.

The 1994 committee is as follows: Bob Lee, Chairperson; Martin Armitage, Hilary Foulkes, Chris Jones, Bob Sullivan, Cynthia Visser, Matt Woofter.

### **CSPG FINANCIAL MANAGEMENT OPEN GOLF TOURNAMENT – FOURTH ANNUAL** (Kevin Stromquist)

One hundred and eight enlightened golfers took in the 4th CSPG Open. Once more the weather was great and Cottonwood Golf Club was an excellent host. The round started promptly at 8:30 with a shotgun start, and most people made it to their tee box without too much delay. As usual, there were a few no shows but with superb shuffling by the volunteers all spots were filled.

The winners of the prestigious Low Gross trophy were; Linc Browning, Mike Carter, Doug Gillrie and Gerry Sykes. The Low Net team were: Ric Maguire, Robert Dick, Vicki Young, Don Zver. The Most Honest Squad was the foursome of Rick Young, Kevin Stromquist, Brian Zaitlan and Catherine Chaplin.

There were over 50 skill and draw prizes available and many golfers and non-golfers (there were non-skill prizes) went home with new

putters, jackets, golf clubs, etc. There was some grumbling about individuals winning more than once but that was likely sour grapes!

The date for next year's tournament has not been set as we are looking for a Friday tournament slot. If there are any suggestions from past or potential new golfers please forward them in writing to Kevin Stromquist c/o Serenpet Inc., 2300, 421 - 7th Avenue S.W. Calgary, AB, T2P 4K9. See you at the '94 Open.

### **CSPG 10K ROAD RACE - FIFTH ANNUAL** (Greg Robb, Robert Pryde, Co-Chairpersons)

The Fifth Annual CSPG 10K Road race was held July 18, 1993 at Fish Creek Provincial Park and was once again a great success. The 1994 event will be held at Fish Creek July 24, 1994. Race co-chairpersons for 1994 will be Vic Urban with Robert Pryde and Greg Robb helping.

Results of the 1993 road race:

<u>Class</u>	<u>Name</u>	<u>Time</u>
1st overall male	Kevin DeForge	31:46
1st overall female	Colleen Stevens	38:48
1st Geol. male	Steve Oldale	34:08
1st Geol. female	Denise Woofter	41:54
1st Geoph. male	Dave Gibbon	34:55
1st Geoph. female	Colleen Stevens	38:48
<u>29 &amp; Under</u>		
1st male	Kevin DeForge	31:46
1st female	Joanne Houck	42:23
2nd male	Dave Gibbon	34:55
2nd female	Nance Vandesaere	43:34
3rd male	Tim Bell	41:06
3rd female	Lisa Brown	45:49

### 30 to 39

1st male	Scott Robertson	32:43
1st female	Colleen Stevens	38:48
2nd male	Dennis McIntyre	33:48
2nd female	Denise Woofter	41:54
3rd male	Steve Oldale	34:08
3rd female	Kerry Solo	41:58

### 40 & Over

1st male	Murray MacPherson	32:56
1st female	Noeline Kinlock	47:42
2nd male	Robert Howard	36:34
2nd female	_____	_____
3rd male	Byron Benn	36:38
3rd female	_____	_____

We would like to thank our sponsors for their continued support:

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