

**CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS
1997-1998 REPORT OF ACTIVITIES**

1997-1998 Executive Committee

**Terry McCoy, President
Kathryn Scales, Vice President
Dave Work, Finance Director
Monica Meding, Assistant Finance Director
Mike Weber, Program Director
Paul Price, Assistant Program Director
Bob Dick, Service Director
Tony Cadrin, Assistant Service Director
Ric Sebastian, Past President**

PRESIDENT'S REPORT (Terry McCoy)

The Canadian Society of Petroleum Geologists is a large and diverse technical society. The President of the Society is responsible for its overall direction and as President you are only able to have contact with a few aspects of the Society. Reading the Annual Report is very worthwhile because it makes you realize that the CSPG is a society, which is run by the volunteer efforts of numerous people. The Executive sets the overall direction and makes decisions which affect the future of the Society, however, the real work is done by the dozens of volunteers who plan and enact our programs, conventions, committees, outreach and social programs from which our members benefit.

As President I realize that, as I write this message in late October 1998, my term is nearly over. It seems to me that it just began and now, as I finally feel comfortable that I understand the CSPG, it is time to move on.

Reading the President's Report from 1996 and 1997, and thinking about 1998, the CSPG has gone through numerous changes over the last three years. The oil and gas business has changed a lot over the last few years and the CSPG has had to change also, in order to meet present and future needs of our members. Our Executive structure implemented in 1996 is working well. The new offices of Finance Director, Assistant Finance Director, Program Director, Assistant Program Director and

Services and Assistant Services Director ensure a continuance of our programs through time as the Executive changes. Our numerous committees are communicating well with the Executive and are able to concentrate on delivering service to our members.

Perhaps the 1998 Executive's greatest challenge has been to turn around the Society's financial status. After some difficulties with our financial reporting system in 1998, we are at a point where our system works well, and we are able to conduct our daily business with and through the committees in an efficient manner. Our financial bleeding, which occurred over the past few years, has stopped in 1998. Society assets have grown and we have put in place a budget plan that the Executive thinks will continue to provide a budget surplus in 1999 and beyond. The success of Geo Triad '98 had a significant impact on 1998 financial results.

Our *Reservoir*, launched in 1997, is doing well. The Editorial and Advertising Committees worked very hard to put this magazine together and to these people we are indebted. After a difficult financial start the publication is now turning a profit and improving with each issue. Advertising revenue is up and the magazine has an improved design layout.

The Executive made the decision, effective September 1998, to turn over all of the day to day business aspects of the

magazine to a professional marketing, communications and printing consortium comprised of MacdonaldCole and McAra Printing. Now the advertising and marketing needs of the *Reservoir*, *Bulletin*, calendar and website, while McAra printing handles the design and printing of both publications. All of the promotional and advertising activities of the Society have been consolidated with MacdonaldCole so that we may do a more effective job of promotion of CSPG endeavors. Future activities will include an expanded corporate membership program, which will consolidate our requests to companies for financial support of specific projects.

For all of the geologists who are involved with the CSPG in a volunteer role, whether that volunteer activity takes place on a convention, social program, committee or on the Executive, your time is valuable and must be used effectively. In today's competitive oil and gas environment the demands on geologists' time are many. Our volunteer time has limits since our primary obligation must be toward our families and employers. We are geologists. We are not professional advertisers, communicators or financial consultants. As a result the Executive decided to seek professional assistance in those arenas where such experience is required. The professional groups which we are utilizing today and will utilize in the future, where expertise is required, will result in a more effective use of the volunteer time our members have available.

In February 1998 the Executive retained the services of Nesbitt-Burns to invest the Society's funds in a conservative manner that will result, over the long term, in asset growth. This was an important step since careful management of our financial resources is critical for the continued existence of the CSPG and the many programs that are offered to our members. The Executive reviews our investment program with our representatives on a quarterly basis.

There are a number of other initiatives which have begun or been expanded during

the last year. The Executive has increased our outreach activities to the community in the Calgary Area and nationally through continued support of local and national school science fairs, the Calgary Science Centre's "Invent an Alien" program and EDGEO. At the university level the CSPG supports scholarships for First Nation students who study geology, regional scholarships, graduate and undergraduate awards and financial support of inter-university geological conferences.

During 1998 there was considerable support from the Executive towards expanding the CSPG's communications directly with geology students at universities across Canada. Beyond our formal Visiting Petroleum Lecturer program, a program was conducted where graduating bachelor and graduate students were exposed to a talk that discussed the practical aspects of how to find job, the interview process, the role of the petroleum geologist and the need for a geologist to create value in the workplace. Talks were presented in Atlantic Canada, Quebec, Ontario and in Western Canada. Many of these students are our members and volunteers of the future, and the Executive deemed it important to provide this information to students who will be in the market for a job in the near future.

The role of the Executive is to chart a path through a continuously evolving business and work environment. Although issues change with time the decisions made by the 1996 and 1997 Executives have significantly contributed to the success of the Society in 1998. Decisions reached in 1998 will result in the continued financial success of the Society in the future, allowing for the continuing delivery of programs and services enjoyed by our membership. There are many challenges for the future. The role of the CSPG in the oil and gas industry in providing training for new and experienced geologists has grown. Support from the corporate community must be sought through an expanded corporate membership program to allow the CSPG to expand our training courses. Several new initiatives are under review.

In closing I would like to thank all of our members who have volunteered their valuable time towards the activities of the CSPG in 1998. There are far too many people to mention. Each volunteer contributes to the ongoing success of our Society. As our business environment changes and the Society reacts to new opportunities, such as further development of the CSPG website and a new millennium, the CSPG will continue to grow and prosper due to the hard work and enthusiasm of its members.

It has been an honour to serve as President during 1998. I thank the members of the Executive and the office staff without whom our Society could not continue to deliver the vast number of services and programs that are available. We as petroleum geologists are very fortunate to have a Society, which is more than a technical society. It is a group of people who share a common interest in petroleum geology and are able to meet, discuss, develop and deliver to each other services, which enrich our lives.

TREASURER'S REPORT (Dave Work, Treasurer)

I would like to report to our members on the Audited Financial Statements for the year ending August 31, 1998. These statements were prepared by our auditors, Collins Barrow, and are printed in this issue of the CSPG *Bulletin*. These financial statements are important to all of us as they reveal the financial health of our Society.

Balance Sheet

Net Assets for the Society as of August 31, 1998 are \$1,004,259. This is an 11% increase over last year's assets of \$891,599. This indicates that the Society presently enjoys a strong asset base. Our assets consist of cash and short term deposits (\$480,398), accounts receivable (\$53,476), prepaid expenses (\$15,401), inventory such as publications and merchandise (\$69,662), capital assets such as computers, office furniture, equipment and improvements to

our new office (\$83,092), and long term investments (\$494,945). Liabilities consist of accounts payable and accrued liabilities (\$91,484) and deferred revenue (\$101,231).

Operating Fund

Our operating fund for the year ended August 31, 1998 tells us how we managed our checkbook during the financial year. The bottom line is that we lived within our means and ended the year with a net surplus of \$112,660. This is quite an achievement for the Society as we have struggled with deficits for many past years. Listed below are the main sources of revenue and expenditures that we encounter on a yearly basis.

Revenues for the year ending August 31, 1998 are derived from four main sources, which include the annual convention (\$765,425), memberships (\$211,154), technical luncheons (\$225,608) and the *Reservoir* Magazine (\$155,050). Major Expenditures include the annual convention (\$446,423), operating the office (\$250,526), technical luncheons (\$200,865), and our two major publications, the *Bulletin* (\$183,122) and the *Reservoir* (\$171,345). In total we brought in revenues of \$1,727,268 and incurred expenses of \$1,614,608. For a breakdown of details please refer to the Audited Financial Statements which are included in the following pages of the *Bulletin*.

Other Issues of Note

There are two main issues that deserve special mention. The first is the 1998 annual convention (Geo-Triad '98). We usually budget a net revenue from our annual convention of \$100,000. Geo-Triad '98 was extremely successful with a net profit to the CSPG of \$319,000. I wish to acknowledge the contribution of both Jim Reimer (Convention Co-Chair) and Monty Ravlich (Sponsorship Chair) for their outstanding effort.

The second issue which deserves mention is the Long Term Investment

Strategy established this year by the Executive Finance Committee. It was decided that a portion of our money should be dedicated to long term investments which would yield a more acceptable return than normal short term bank interest. We therefore hired the services of a professional adviser (Nesbitt Burns), to manage approximately \$500,000 under the direction of the Executive Finance Committee. Approximately \$350,000 has been dedicated to fixed income (bonds) and \$150,000 to equities. It is our intent to leave this money for the long term and draw on the interest when required to help fund our operations. Schedule 4 of the Audited Financial Statements provides a complete listing of our long term investments. It is our desire to make all Society financial affairs as transparent as possible so that our membership can understand the details of the Society's finances.

Conclusion

With net assets of \$1 million and a year end surplus of \$112,000 we are presently in good financial shape. However we must not forget how quickly times can change, especially within our industry. Our asset base can erode quickly with a few years of operating deficits. We saw our asset base go from \$1.3 million in 1996 to \$0.9 million in 1997 despite excellent work by finance directors. It is important that we continue to live within our means and use our asset base as wisely as possible. We have been fortunate to have finance directors in the past, such as Christian Viau and Frank Chappell, who have worked hard to make the necessary write-downs and tough decisions which have allowed us to achieve the surplus we now enjoy. I am also confident that Monica Meding and future executives will carry on the tradition of excellent financial management which will ensure future prosperity for the Society. As my two year term on the Executive draws to a close I would like to thank our Business Manager, Tim Howard, and office staff whose efforts make our lives easier. I would

also like to thank the hundreds of volunteers within the Society, whose service is the real reason we enjoy such financial stability today. I hope I have also contributed some small part to this great organization.

AWARDS

PRESIDENT'S AWARD (Terry McCoy, President)

The President's Award for 1998 is awarded to Mr. Jeff Packard and Mr. Jim Reimer. Individuals who have contributed to the Society through outstanding service qualify for this award. Mr. Packard and Mr. Reimer have clearly demonstrated an outstanding level of service to the CSPG.

Jeff Packard graduated from Concordia University in Montreal in 1976 with a B.Sc. in Geology. He then worked as a contract geologist looking for uranium for two years. His education continued at the University of Ottawa where he obtained a Ph.D. in 1995 and then to the University of Calgary for post-doctorate studies. Jeff worked for the ISPG as a Postdoctoral Fellow and Contract Geologist from 1981 until 1986. During this period Jeff produced five technical papers representing important contributions to regional geology. He instigated, then chaired the Canadian Reef Inventory Project through its five year life, culminating in the publication of CSPG Memoir 13, *Reefs: Canada and Adjacent Areas*. In 1986 Jeff joined Texaco Canada as a Carbonate Specialist where he worked until 1989. During this period he founded the Carbonate Liar's Club which is a network of carbonate geologists. Meeting monthly, this group of 20 to 30 geologists is still going strong after ten years. In January 1990 Jeff joined Esso Resources Canada Ltd., where he worked as an internal corporate consultant from the geosciences group of the Research and Technology Division. Jeff became an independent consultant in February 1992 and in 1996 formed Rhomb Carbonate Consulting Ltd., acting as a partner and principal consultant. During this period Jeff conducted numbers of regional studies for a variety of clients. After six years of working

as a successful consulting carbonate geologist, Jeff joined Poco Petroleum Ltd. as a Regional Geologist in July 1998.

Jeff's involvement with the CSPG through the years that he has resided in Calgary has been significant. He was the Technical Coordinator for the 1994 Convention, Exploration Update 94", CSPG Visiting Lecturer, technical contributor to SIFT, various core conferences and symposia, reviewer of the *Bulletin*, member of the Geological Atlas Project and candidate for the Executive. His contribution to the CSPG was recognized with a Tracks Award in 1988 for outstanding service. With these contributions to our Society behind him, Jeff agreed to act as the General Co-Chairperson together with Christian Viau for the 1997 CSPG-SEPM Joint Convention. This convention was one of the most technically and financially successful conventions staged by the CSPG. It is with the greatest pleasure that I recommend Jeff Packard for the President's Award with his record of exemplary service to the CSPG.

Jim Reimer graduated from the University of Waterloo with a B.Sc. and a M.Sc. in Geology. Upon graduating, Jim joined Home Oil Company Ltd. where he worked for fourteen years in technical and managerial positions in both explorations and business development functions. In 1995 Jim joined Stampeder Exploration Ltd. as Chief Geologist, Acquisitions. In 1996 Jim was promoted to Vice President, Exploration. Following a very active period at Stampeder, Jim joined Encal Energy Ltd. as Vice President Exploration in April 1997.

Jim has been an active member of the CSPG, receiving the Andrew Baillie Award in 1991 and a Link Award in 1994. Jim served on 1998 as the General Chairperson for the CSPG for Geo-Triad '98. The theme for Geo-Triad '98 was "Rocks, Risk & Reward". As a joint convention with the CWLS and the CSEG, Geo-Triad broke new ground on several fronts. It was the first convention involving all three technical societies and it was the first use of the University of Calgary and Olympic Oval as the convention venue. Perhaps the most remarkable aspect to this

event was the tremendous success of the entire convention. In excess of 5,000 participants attended resulting a significant financial profit for the CSPG. There was very strong sponsorship support from all sectors of the petroleum industry. Jim and the other Co-Chairmen faced numerous challenges in staging this event in the chosen venue. One of the most popular aspects of Geo-Triad '98 was the use of the Olympic Oval for the exhibits and ice breaker. There was also a strong business flavour to the convention (Reward) which was very well received. The 1998 convention was very successful and the CSPG is very proud of what was accomplished. Jim's outstanding efforts as a CSPG volunteer have benefitted our Society in an exemplary manner.

HONORARY MEMBERSHIP COMMITTEE

(N.J. McMillan, Chairperson; Ashton F. Embry; E.E. (Ned) Gilbert); D.A.W. Keith

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.

The criteria for considering Honorary Memberships are:

- 1) persons who have made outstanding contributions to the Society;
- 2) geologists or other earth scientists who have made outstanding contributions to the cause of petroleum geology on a national or international basis;
- 3) there will be no restriction to age in considering someone for honorary membership.

Twelve nominations were considered by the committee and the CSPG Executive. W. (Bill) G. Ayrton was selected as Honorary Member for his decades of work for the benefit of the CSPG through education and committees. D. (David) W. Organ was elected for his activities on CSPG Committees, and conference committees. The CSPG now has 46 Honorary Members

LINK AWARD COMMITTEE (Rick Steedman, Chairperson)

No report available.

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

The John B. Webb and CSPG Trophies are awarded to the Best Student Paper at the Inter-University Conferences.

Western Inter-universities Geological Conference 1998: This year's Conference was hosted at the University of Alberta. This year the John B. Webb was awarded to a joint presentation and the winners were Jason Lavigne and Devin Rowe from the University of Alberta for their paper entitled, "Significance of the Teredolites Echnifacies".

Atlantic Universities Geological Conference 1998: This year's Conference was hosted at Acadia University on October 16-18. The winner of the CSPG trophy was Brian D. Rex, and the title of his talk was "Cilicia Basin, Imaging of Salt Tectonics in a Sedimentary Basin in the Eastern Mediterranean". He attends Memorial University in Newfoundland.

MEDAL OF MERIT (Brad Hayes, Chairperson; Jim Barclay, Doug Cant, Adam Hedinger, George Langdon, John Varsek)

The Medal of Merit is awarded each year for the best paper published during the previous year on a subject related to the petroleum geology of Canada. From a comprehensive search of petroleum literature in all major journals and publications, the Committee selects a short list of papers to review in detail. The choice was particularly difficult this year, as the finalists offered strengths in a variety of areas. The winners of the 1997 Medal of Merit award are Fed Kraus and Brand Lee.

As Chair, I would like to thank the Committee members for their efforts in reading and evaluating many papers. It is very gratifying to see that Canadian research ranks among the best in the world; many leading-edge concepts are initiated and

developed by Canadian workers using Canadian examples.

All members of the Committee are planning to stay on for another year.

Please note that all CSPG members are welcome to bring suitable papers to the attention of the Medal of Merit Committee.

R.J.W. DOUGLAS MEDAL (Andrew C. Newson, Chairperson; Murray Nunn, Dr. Tony Tankard, Dr. Hank Williams and Dr. Bob Thompson)

The R.J.W. Douglas Medal is awarded annually by the Canadian Society of Petroleum Geologists for outstanding contributions to the understanding of sedimentary geology in Canada, commending major contributions to regional tectonics, petroleum and structural geology. The award is open to all geologists who follow the example of Bob Douglas in contributing to the development of Canadian sedimentary, petroleum and structural geology.

Nominations for the award of the medal must be endorsed by at least three members of the CSPG. Nominations may be proposed at any time, but to be considered for a particular year they must be received by the Society before October the 1st.

In 1997 the winner of the R.J.W Douglas medal was Peter Jones who has contributed enormously to our understanding of the structure and evolution of deformed belts in general, and the Canadian Rocky Mountain fold and thrust belt in particular. In a still-active career spanning more than 40 years, we can count among his accomplishments the following:

- More than 40 publications, including some of the most quoted and influential articles ever written on the structure of the Rocky Mountain fold and thrust belt. His interpretations are grounded in his many years spent mapping the surface and subsurface geology of the Foothills. In particular, his significant work on triangle zones has resulted in cross-sections being revised at the fronts of mountain belts around the world.

- Development of computer software (in partnership with Helmut Linsser) for the modelling of structural cross-sections. Such methods have changed the way in which structural geology is performed, and Peter Jones was the first to do it.
- As an educator, he has given his course, Petroleum Exploration in Fold and Thrust Belts, many times, in Canada and abroad. It is a measure of his influence that many of the original methods and approaches used in his teaching are now part of the mainstream of thought in structural geology.
- His numerous talks and presentations at meetings, in Canada and around the world, are invariably entertaining and well-attended by specialists and non-specialists alike. One reason for this is that the ideas that Peter Jones considers worth talking about often tend to stimulate debate, if not controversy.

Peter Jones has worked as an independent exploration consultant since 1980 and as an exploration geologist for many years before that. This may account for the fact that, although his contributions have typically had global and theoretical significance, all his work is firmly grounded in its practical application to petroleum exploration. As an independent geologist, working without the support of a major oil company or a government funded institution, he has still managed to contribute enormously to our understanding of deformed belts. Peter Jones has set an example to us all, by demonstrating how an independent geologist can make important contributions to our science.

In addition to his intellectual achievements, Peter Jones has persistently manifested a cheerful, kind and generous disposition. He has personally assisted geologists from less prosperous countries to visit Canada and is always ready to donate his time and expertise to anyone who asks him for help with any problem in structural

geology. When Canadian structural geologists are working overseas, a common question asked of them is, "Do you know Peter Jones?" Many of us feel fortunate to reply "Yes".

Since the R.J.W. Douglas Medal was awarded to Peter Jones the Russian Academy of Natural Sciences has invited him to become a member as recognition for his work in this field. In 1982 he had described triangle zones in the Alberta foothills and predicted recognition of triangle zones in fold and thrust belts world-wide. Professor Nicolay Koronovskiy, Head of the Geodynamics Department of Moscow State University and his student Konstantin Sobornov then successfully applied this model to the Dagestan thrust belt and other fold and thrust belts in Russia.

STANLEY SLIPPER GOLD MEDAL (John Hogg, Chairperson; Neil Hutton, Ed Wright, Bill May)

The Stanley Slipper Medal, the CSPG's highest Award. The medal is presented annually by the CSPG for outstanding contributions to oil and gas exploration efforts in Canada. The medal was established by the CSPG in 1989 and was designed by Calgary sculptor, Bib Stowell, and has been cast by Birks.

The contributions of the winner of this award can encompass one or more of a number of activities related to aspects of petroleum exploration. Such activities include; initiating and or leading exploration programs, teaching and or training of explorationists, and involvement in and leadership within geological societies and professional organizations

Dr. Andrew Baillie was the 1997 winner of the Stanley Slipper Gold Medal.

Finally, we would like to thank Alice Payne for her dedication to this committee as chairman for the past three years. Her efforts produced three high quality winners and many fine

ANDREW BAILLIE AWARD (Jim Reimer, Convention Co-Chairperson)

The winner of the Andrew Baillie Award, given during the 1998 Convention, was Ian Hutcheon.

CSPG GRADUATE STUDENT THESIS AWARDS COMMITTEE (Christopher Harrison, Chairperson; Lawrence Bernstein, Andre Chow, Leslie Eliuk, Stephen Greer, Lisa Griffith, Tony Hamblin, Don Keith, Wendy Shier)

Selection of the 1997-98 winners is currently underway. A report on activities and recipients will be included in the March 1999 issue of the *Bulletin*.

REGIONAL GRADUATE/UNDERGRADUATE SCHOLARSHIPS (Shawna Christensen, Chairperson; Adam Hedinger)

The CSPG and Chevron Canada Resources awards annually, on a regional basis, graduate scholarships to promote advanced education and research in those fields of geology having application to the petroleum industry. Each of the scholarships has a value of \$1,500 and is given to a graduate in each of the three regions of Canada. The 1998 recipients are:

- Western Canada - Shona Ness (U. of C.) – M.Sc. *Basin modelling and assessment of petroleum exploration potential within Triassic sediments, south Peace River Embayment area.*
- Central Canada - Matthew Lumsdon (Western Ontario) – M.Sc. *Changes in Alluvial Architecture of Coastal Plain Sediments in Response to Changes in Accommodation.*
- Eastern Canada - Jennifer Russel (Dalhousie) – Ph.D. *Taphonomy and Microevolution of the Cape Phillips Formation Graptolite Fauna, Cornwallis Island, Arctic, Canada.*

The CSPG and Chevron Canada Resources awards scholarships annually, on a regional basis to undergraduates enrolled in geology at a Canadian University. Each

scholarship has a value of \$1,250 and is given to an undergraduate in each of the three regions of Canada. The 1998 recipients are:

- Western Canada - Sarah Mearon (University of Manitoba)
- Central Canada - Nicholas Barnes (McGill University)
- Eastern Canada - Janna Rosales (Memorial University)

The C.A.S.T. (Canadian Aboriginal Science and Technology Society) awards a scholarship of \$1,000 presented to an outstanding aboriginal who is enrolled in geology at a Canadian University in 1997/1998. This year's recipient was Terriane Leigh Mary Berens from Queen's University.

UNDERGRADUATE STUDENT AWARDS COMMITTEE (Patrick Elliott, Chairperson)

The objective of the Undergraduate Student Awards is to recognize the achievements of outstanding undergraduate geoscience students from across Canada. The awards are presented annually, to one deserving undergraduate student from each Canadian university that offers a geoscience program. The students are chosen by their respective professors for demonstrating outstanding proficiency in petroleum geology or the related fields of sedimentology, stratigraphy, palaeontology and structural geology. The students each receive a one-year membership to the Society, an embossed certificate, and a \$30 cheque to defer costs incurred in framing their certificates. The 1998 Undergraduate Awards will be presented to the following students:

School	Name of Recipient
Acadia University	Stuart Venables
University of Alberta	Shahin Dashtgard
Brandon University	Angela Dowd
University of British Columbia	Ryan Douglas Stewart

Brock University	Trevor Mogg
University of Calgary	Laura M. Gates
Carleton University	Andrew Blair
Concordia University	Giovanna G. Carrelli
Dalhousie University	Sarah Richardson
University of Guelph	Jarvis Rich
Lakehead University	Mariah Mailman
University of Manitoba	Cameron Toews
McGill University	Gela Crane
McMaster University	Jamie Marshall
Memorial University of Newfoundland	Alison Gollop
Mount Allison University	Jodi Miller
University of New Brunswick (Fredericton)	Stacie Banks
University of New Brunswick (St. John)	Amanda Amey
University of Ottawa	Milena Kusnir
Queen's University	Jennifer Cole
University of Regina	Alain Robert Legault
St. Francis Xavier University	Loretta Ransom
St. Mary's University	Shawn Rushton
University of Saskatchewan	Derek Savage
Simon Fraser University	Dean Richardson
University of Toronto	David Jowett
University of Victoria	Michael Semenzin
University of Waterloo	Jonny Wu
University of Western Ontario	Natalie Lefebre
University of Windsor	Anna Cervi

This year's response for candidates was successful, with responses from all but four of the universities contacted. We hope to have the certificates send out to the students in December 1998. I'd particularly like to thank the contact professors at each of the universities for making this possible. I would also like to thank Jane Edwards for her superb clerical assistance and the staff at the CSPG office for helping this Committee's operations run so smoothly. On behalf of the CSPG, I would also like to extend thanks to PanCanadian Resources Limited for providing logistical support in the form of packaging and postal expenses

TRACKS AND SERVICE AWARDS
(Shawna Christensen, Awards Coordinator)

The winners of the Tracks Awards for 1997-98 were:

Norbert Alwast	Advertising Committee
Tim Bird	Advertising Committee
Ray Featherstone	<i>Reservoir</i> Editor
John Hogg	Pool '96 Publication
Tom Moslow	<i>Triassic Bulletin</i>
Richard Thom	<i>Reservoir</i> Editor
Joerg Wittenberg	<i>Triassic Bulletin</i>
Brian Zaitlin	Education & Publication Contributions

The winners of the Service Awards for 1997-98 were:

Alexis Anastas	Continuing Education
Sherry Becker-Always	Continuing Education
Anne Burrige	Squash Committee
Graeme Dales	Open Golf Chairperson
Gerry deLeeuw	Geo-Triad '98
Paul Fejer	SIFT
Hiliary Foulkes	Geo-Triad '98
Andrea Henry	Mixed Golf/Geo-Triad '98
Randy Hughes	Geo-Triad '98
Solana Jear	Squash Committee Chairperson
Jeff Levack	Geo-Triad '98
Mark Mallamo	Continuing Education
Gord McLean	Continuing Education
Jason Montpetit	Continuing Education
Shelley Moore	Geo-Triad '98
Eric Mountjoy	Geo-Triad '98
James Murraro	Squash Committee
Regan Palsgrove	SIFT
Alice Payne	Stanley Slipper Award Committee
Howard Pitts	Geo-Triad '98
Indy Raychaudhuri	SIFT, Undergraduate Award Committee
Dave Robinson	Squash Committee
Maggie Schofield	Geo-Triad '98
David Strandring	Geo-Triad '98
Kevin Stromquist	Open Golf Committee
Larry Strong	SIFT

Natalie Sweet Continuing Education
 Brent Wignall Continuing Education

VOLUNTEER AWARDS (Shawna Christensen, Awards Coordinator)

Volunteer Awards for 1997-98 were given to:

Shaun Alspach	Byron Bahnsen
June Barker	Jason Batemen
Monty Bowers	John Brook
Steve Brownridge	Lee Butler
Tony Cadrin	Allen Carswell
Neil Cathcart	Don Cole
Suzanne Costaschuk	Cheryl De Leeuw
Mike Desrouches	Ken Drabinsky
George Eynon	Mike Finn
Elizabeth Griffiths	Doug Hamilton
George Hassler	Martin Hewitt
Denise Hodder	Catherine Huff
Rob Hughes	Bob Jamieson
Glenn Karlen	Bob Kuchinski
Jon Larsen	Mike Lawford
Sid Leggett	Shawn McCrea
Carolyn Moore-Robin	Rick Musial
Andrew Newson	Karen Patey
Lisa Sack	Kathy Scales
Mike Siefert	Greg Soule
Brad Spence	Peter Steven
Cheryl Wright	

CONFERENCES, CONVENTIONS, SEMINARS AND SYMPOSIA

GEO-TRIAD '98 COMMITTEE (Jim Reimer, Chairperson)

By all measures, Geo-Triad '98 was a resounding success. We exceeded our financial and participation targets, while re-engineering the venue and expanding the scope of our annual convention. The key highlights include:

- First joint convention involving the CSPG, CSEG and CWLS.

- Re-location of the convention venue to the University of Calgary and Olympic Oval.
- More than 5,000 participants.
- Approximately \$318,000 net profit generated for the CSPG.
- Strong sponsorship support received from all sectors of the petroleum industry.

The credit for this remarkable effort goes to the more than two hundred volunteers on twenty organizing subcommittees. On behalf of the general co-chairs and our Societies, I thank them all for a job well done.

Principal Challenges of Geo-Triad '98

Geo-Triad '98 was the first joint convention involving the Canadian Society of Petroleum Geologists (CSPG), the Canadian Society of Exploration Geophysicists (CSEG), and the Canadian Well Logging Society (CWLS). With a combined membership of more than 6,000 and an anticipated convention attendance of at least 3,000 delegates, the organizing team was faced with two principal challenges:

- Where could we secure sufficient and adequate space given the potential scope of this event?
- How would we attract participation, assuming that the appropriate facilities might be located outside the Calgary downtown core?

With regard to item (1), we note that the Calgary Convention Center offers decent lecture space, but the exhibit area is just too small for an event of this magnitude, particularly as we were determined to make the exhibits a focal point of this convention. In addition, we required 'field space' to handle the outdoor equipment displays and the Geo-Fair. The Stampede Grounds, while large enough for both the indoor and outdoor exhibits, offers rather poor acoustics in the lecture areas. Our ultimate solution was to hold the conference at the University of

Calgary and Olympic Oval. The Oval would serve as superb exhibits venue, the fields and parking lots would be ideal for the outdoor displays, and the various lecture theaters were believed large enough to handle the technical sessions.

The challenge of delegate participation boiled down to developing a program that would encourage attendance for at least a half day (or preferably a full day), followed up with a strong communications strategy, then ultimately providing effortless registration and transportation access. This was addressed through a variety of initiatives, including an expanded and professionally designed advertising and circular schedule, direct mailouts to senior exploration management at Calgary companies, downtown pre-registration pick-up, and complimentary LRT transportation.

Theme for Geo-Triad '98

The theme for Geo-Triad '98 was "Rocks, Risk, & Reward". This theme was selected to reflect the expanding responsibilities of all geoscientists, as each of us must continually consider both the business and technical elements of our proposals. Authors were encouraged to develop links between scientific observation and data acquisition (Rocks), risk assessment and reduction (Risk), plus ultimate project success and business profitability (Reward).

Attendance & Participation

Paid Delegates:
 Member Pre-Registration 1,765 at \$175 each
 Member On-Site 454 at \$225 each
 Non-Member Pre-Registration 239 at \$230 each
 Non-Member On-Site 186 at \$280 each
 Corporate Loaner 36 at \$400 each
 Students 293 at \$40 each
 U. of C. or Retired 73 at \$80 each
 Extra Exhibit Workers 242 at \$30 each
 Exhibitor Guests 109 at \$30 each
 Subtotal3,397

Complimentary Passes:
 Exhibitors 1,415
 Sponsors 61

Subcommittee Chairs 32
 President's Passes 25
 Plenary Speakers 19
 Student Tours 70
 Subtotal.....1,622

Attendance Grand Total.....5,019

Exhibits Space:
 379 booths sold for \$1,000 (base), \$1,250 (mid-level), or \$1,500 (premium).

Sponsorship:
 14 Platinum
 7 Gold
 17 Silver
 43 Corporate
 26 Legacy

Invited Speakers:
 Plenary Sessions: 19
 Luncheon Speakers: 2
 Oral Technical Papers: 222
 Technical Sessions: 43
 Posters: 37

Best Papers

Awards for best papers were given by each of the participating Societies for presentations within their discipline. The best paper for the CSPG was Ian Hutcheon, "Controls on the Compositional Variation of Natural Gas in the Triassic of the Western Canada Sedimentary Basin." The best overall convention paper was Dan Krentz et al, "Life on the Curve; Experiences in Venezuela." (Notes: Dan Krentz has received an award from the CSEG on behalf of Geo-Triad. A CSPG 'Best Student Paper' was not selected.)

What Went Well?

- Recruiting a co-chairman with the specific mandate and skills to handle sponsorship. Monty Ravlich did an outstanding job in this role. Without his efforts, Geo-Triad '98 would have been much less profitable. A convention budget based solely on registration and event revenue can potentially generate a break-even profit scenario.

- Dividing the organizing responsibilities between the four co-chairs. Each co-chair took specific responsibility for tasks that suited their interests and skills and each had the authority to run with those tasks.
- Holding the exhibits in the Olympic Oval. Although the exhibits move-in and move-out required extensive coordination, the end result was a convention showpiece. Holding the icebreaker on the exhibits floor (we believe) generated higher event attendance and provided the exhibitors with an additional marketing opportunity.
- Adding business flavor to the convention. The plenary sessions were structured to give the delegates a business perspective, ranging from macro to micro economics, political, and personnel issues. These sessions were reasonably well attended and favorable feedback has been received.
- The two luncheon speakers gave highly entertaining presentations. Their material was thought provoking and fun. We purposely avoided industry gurus and academics to give the delegates a break. Both luncheons were a sellout.
- The core workshop is always popular. Staging it over two days is a good idea, particularly for joint conventions. The east coast displays provided additional interest.
- Contracting a graphic designer to create and coordinate the printed materials. The staff at "Space Relations" did a terrific job with this task. They created a professional look and, by spearheading the layout of the circulars and abstract book, significantly reduced the workload load of the printing committee.
- Downtown pre-registration pick-up. Approximately 1,800 participants elected

to pick up their registration package at the Westin downtown on the Friday afternoon or Monday morning preceding the convention. This undoubtedly alleviated some long lineups that could have developed on site.

- Involving University students as campus guides. The guides were knowledgeable, friendly, and easily recognizable with their Geo-Triad shirts. We also made golf carts available as an alternative for delegates who did not wish to walk between venues.
- Corporate sponsorship of the circulars and final program. The costs of producing and printing the first and final circular, the technical program, and the abstracts book were substantially defrayed through direct corporate sponsorship of these items.
- Selling sponsorship to numerous other items. The organizing team was continually brainstorming ideas on what could be "sold". For example, the speaker's breakfast, coffee stations, registration badges and bags, LRT transportation, student guide T-shirts, and the whole core conference, were successfully sold as sponsored items.
- Providing the volunteers with various convention memorabilia. Our volunteers worked very hard. We recognized their efforts, in part, through complimentary sport shirts, T-shirts, mugs, barbecue aprons, mouse pads, and baseball caps. You can't do too much in this area.

What Could Be Improved?

- The registration and accounting systems remain cumbersome to use and were prone to breakdown during peak registration. The networking system created unnecessary line-ups and frustrations on site, as well as a \$10,000 registration uncertainty.

- The assignment of technical sessions to specific lecture halls could have benefited from better planning. Several of the lecture halls were too small for the more popular sessions.
- We significantly overspent the printing budget, principally on the abstracts book. The problem was compounded by authors who submitted “abstracts” that exceeded our two-page guideline and by the insertion of color plates. Significant cost savings could have been realized by making the abstracts available only on electronic media.
- We discovered that the normal CSPG insurance policy does not provide sufficient coverage for complex events such as Geo-Triad '98. The total premium to fully cover Geo-Triad was \$18,550.
- We had a vigorous co-chair discussion concerning the per-delegate registration fee. This discussion was predicated on budgeted profit levels vis-à-vis each Society's comfort level with respect to gross profit. We ultimately adjusted the fee downwards as an indication of the organizing committee's sensitivity to this issue.
- The instructor fees and related expenses for AAPG courses and field trips are outrageous.

Key Recommendations for Future Conventions

- 1) Make sponsorship an integral component to ensure profitability. Be imaginative.
- 2) Expand early coordination between the participating Societies. Specific ground rules for issues such as gross profit, registration fees, point allocation system and best paper selection should be negotiated between Society Executives rather than the co-chairmen.

3) Expand the business component. This should attract certain delegates whom might otherwise not attend the convention.

4) Beef up the CSPG insurance so that each convention organizing team does not have to re-invent sufficient policy coverage.

5) Do not offer AAPG sponsored courses or field trips until their instructor expenses fall in line with that of the CSPG.

6) “Space Relations” should be given strong consideration as the graphics and design contractor for future conventions and also for general Society needs.

7) Eliminate paper-printed abstract books. Use electronic media only.

1999 CONVENTION COMMITTEE (John Chipperfield, Chairperson)

For the 1999 convention, the CSPG will team up with the Petroleum Society. The theme, "DIGGING DEEPER - TO FIND A BETTER BOTTOM LINE" is appropriate in this latest period of uncertainty in the industry. The focus on digging deeper reflects not just deeper or more difficult targets, but the forging of stronger ties between the geoscience and engineering disciplines to develop more effective technical teams. The reference to finding a better bottom line is to emphasize that our scientific efforts must add value for the various industry stakeholders. Accordingly, the theme sessions of the technical program will emphasize the integration of geophysics, geology, engineering and economics.

The convention will be held June 14 through 18, 1999 at the Calgary Convention Centre and the AEUB Core Research Centre. The Committee chairs and their staffs are hard at work putting together a convention you will not want to miss. Additional volunteers are always welcome and may contact either John Chipperfield at john.chipperfield@sproule.com or Douglas Carsted at carstedd@sproule.com.

GEOCANADA 2000 -- The Millennium Summit (Ian McIlreath - General Chairperson, Ian Moffat - CSPG Co-Chairperson, Francois Aubin - CSEG Co-Chairperson, Glenn Gray - CWLS Co-Chairperson, Grant Mossop - GAC Co-Chairperson, Ian Hutcheon - MAC Co-Chairperson, Maggie Schofield - Special Advisor Entertainment).

GEOCANADA 2000 is truly going to be a celebration of what has been accomplished in the earth sciences in Canada and globally up to the millennium change. From this summit perspective, we will look at the future definition and roles of earth sciences in the petroleum, mining and other industries, as well as academic and government organizations in the new millennium. Essentially, picture the highly successful 1998 GeoTriad Conference (CSPG, CSEG, CWLS) and all its components designed to disseminate technical information to the petroleum industry and add the GAC-MAC Annual Meeting (Geological Association of Canada, the Mineralogical Association and all other Canadian Societies which meet at GAC-MAC) with their focus on the mining industry and all other disciplines of geology.

The meeting will occur during the last week in May 2000. As of the summer of 1998, the various required committees have been defined, some of the chairpersons recruited so we are looking for volunteers. This will be a wonderful opportunity for anyone to expand their network, have fun and be part of a truly historical meeting for earth sciences in Canada.

PROGRAMS

BULLETIN OF CANADIAN PETROLEUM GEOLOGY (A.F. Embry, Editor; B. Chiang, Managing Editor; P. Bakogeorge, C. Frey, S. Wilson-McEwen and E. Snow, Production Editors; D.C. Elliott, Book Review Editor; T. de Freitas, M. Gibling, M. Fowler, L. Lane, T. Poulton, M. Savard, M. Williamson (until December 1998); A. Desrochers, C. Harrison, D. Issler, E. Johannessen, D. McAlpine, K. Osadetz, J. Wood (until December 1999); S. Bachu, K. Bergman, B.

MacLean, D. Morrow, L. Quinn, G. Ross, J. Varsek (until December 2000); N. Alwast, *Bulletin* Advertising)

Volume 46 of the *Bulletin*, published in 1998, contained 25 scientific papers. Each issue of the *Bulletin* maintained a high scientific standard thanks to the diligence of the associate editors and all the critical readers. The *Bulletin* was put together, polished and sent out on time due to the efforts of the production editors, Peter Bakogeorge and Cecelia Frey, our managing editor Billie Chiang, and the staff at McAra Printing. Regrettably both Peter and Cecelia resigned their positions during the year and their very able shoes have been filled by Sherry Wilson-McEwen and Elspeth Snow. I would like to express my sincere thanks to Peter and Cecelia for all their efforts which helped maintain the high quality of the *Bulletin*. Dave Elliot, our book review editor, continues to do an excellent job of getting a never ending flow of books reviewed. Most papers in volume 46 were published in less than a year of initial receipt.

We have received 20 new manuscripts and most of these will appear in 1999.

RESERVOIR (Richard Thom, Chairperson and Co-editor (until September, 1998); Ray Featherstone, Co-editor and Chairperson (from October, 1998); Julie Abbott, Co-editor (from September, 1998))

The year 1998 continued with more changes to the *Reservoir*, not so much with the look of the *Reservoir*, but behind the scenes. As part of the Society's overall effort to keep costs down and increase advertising revenue, the *Reservoir* was printed and designed by three different groups during the 1998 year. The first three issues (through March) were designed by Yellow Brick Studios and printed at Sundog Printing; the next four issues (including the joint July/August issue) were designed and printed by Windmill Printing. Starting with the September issue, the *Reservoir* was designed by MacDonald-Cole and printed by McAra Printing; advertising in the *Reservoir* was also turned over to MacDonald-Cole. The current team of MacDonald-Cole and

McAra, through an encompassing contract, are handling a large portion of the Society's printing and advertising; the publication of the *Reservoir* is one part of that contract. Thanks go out to the previous groups of printers and designers over the 1998 year, especially to Yellow Brick Studios and Sundog Printing who changed the *Reservoir* to the new 8 1/2 x 11 full colour format. Distribution is still provided by Global Direct Mailing.

The *Reservoir's* content continues to change as contributors change. Aubrey Kerr continues to contribute his excellent Historical Snapshots column; Oil Company Key Facts are also a staple of the publication. Various committees of the CSPG have become more regular sources of information, such as those of the National Liaison, Honorary Address, and the Educational Trust Fund and the many activities it supports for example. The *Reservoir* thus provides an outlet for informing the Society membership about Society committees and activities that perhaps had lower profiles previously. "One-of" technical and non-technical articles are also included, but are only sporadically contributed.

Richard Thom, the chairperson of the *Reservoir* Committee for several years, decided to step down as of the end of September. Julie Abbott has joined the Committee as co-editor and Ray Featherstone has assumed the position of chairperson and co-editor. The *Reservoir* Committee thanks Richard Thom for his years of leadership and excellent efforts.

TECHNICAL PROGRAM COMMITTEE

(Patricia Cucman, Alan Schink, Colleen Sherry, Virginia Trapnell, Co-Chairpersons)

The Technical Luncheon Committee hosted 18 talks during the 1997/98 season. Talks covered a wide range of topics dealing with both Canadian and International petroleum related issues. Presentations and attendance are tabulated below:

- September 18, 1997, Mark Cooper, John Weissenberger, PanCanadian; Doug

Hostad, Derek Gillespie, Don Rae, Elizabeth Clark, Ian Knight, attendance 556, "Exploring for Giant Oil Fields in the Cambro-Ordovician of Western Newfoundland; the Story so far..."

- October 14, 1997, Normand Begin, Talisman; Debbie Spratt, Don Lawton, attendance 485, "Along Strike Termination of Structural Culminations with Paleozoic Carbonates, East of the McConnell Thrust, Southern Limestone Mountain Area: Seismic Evidence for Transverse Faulting"
- October 28, 1997, Dale Leckie, GSC - Calgary; Nancy Vanbeselaere, David James, Karen Wallace-Dudley, attendance 907, "Mayhem in the Mannville: Stratigraphic Complexity in Southern Alberta and Saskatchewan - Resolved"
- November 13, 1997, John Grotzinger, MIT, attendance 437, "The Terminal Proterozoic Time Scale: Constraints on Global Correlations and Rates of Early Animal Evolution"
- November 25, 1997, Scott Tinker, Marathon Oil, attendance 640, "From Rocks to Models: Three-Dimensional Visualization as a Tool to Integrate Sedimentology and Sequence Stratigraphy in Reservoir Models"
- December 9, 1997, Michel Malo, INRS Georesources; Donna Kirkwood, Universite Laval, attendance 307, "Tectonostratigraphy of the Gaspé Appalachians with emphasis on the Geodynamic Evolution of the Gaspé Belt Basin; From the Salinic Disturbance to the Acadian Orogeny"
- January 13, 1998, Ian Hutcheon, Univ. of Calgary, attendance 532, "The Controls on the Origin and Distribution of H₂S and CO₂ in Clastic and Carbonate Rocks of the Western Canada Sedimentary Basin"
- January 29, 1998, Chris de Freitas, University of Auckland, N.Z., attendance 971, "The Science of Global Warming: Exposing Myths and Misconceptions"
- February 10, 1998, Jack Wendte, GSC-Calgary; Hairuo Qing, Jeff Dravis,

Shelley Moore, Vern Stasiuk, Grant Ward, attendance 591, "High-Temperature Saline (Thermoflux) Dolomitization of Devonian Swan Hills Platform and Bank Carbonates, West-Central Alberta"

- February 24, 1998, Doug Cant, Consultant, attendance 927, "Stratigraphic Traps and Unconformities"
- March 10, 1998, Trevor Elliot, Univ. of Liverpool, U.K., attendance 579, "Fluvial Systems in Mountain Belts and Foreland Basins: An Alpine-Himalayan Perspective"
- March 31, 1998, Richard Larese, Amoco, Tulsa, attendance 604, "Impact of Diagenetic Processes on Sandstone Reservoir Quality: Controls, Effects, and Predictive Evaluation Using Data from Natural and Experimental Systems"
- April 14, 1998, Ronald Kriesa, Mobil Tech Centre, Dallas; AAPG Dist. Lect., attendance 575 Integrated Reservoir Description Using Core, Wire-Line Logs, etc."
- April 28, 1998, Andy Evans, Canadian Hunter, attendance 787, "Climbing Everest's North Ridge: A Different Type of Risk Management"
- May 12, 1998, Jeff Packard, Consultant; Ihsan Al-Aasm, Iain Samson, attendance 687, "Big Gas in Hydrothermal Chert-Hosted Reservoirs: The Parkland, B.C. Story"
- May 26, 1998, Hans Machel, Univ. of Alberta, attendance 540, "Indications for Tectonically Induced Fluid Flow Into The Rocky Mountain Foreland Basin - With Implications for Petroleum Exploration"
- June 12, 1998, Janok Bhattacharya, ARCO Exploration; Brian Willis, Shirley Dutton, Christopher White, attendance 511, "Outcrop Analogs for Tide-Influenced Lowstand Deltaic Reservoirs"
- June 30, 1998, John Harper, LMX Resources, attendance 396 (limit 400) "Hydrocarbon Exploration: Should We Be Looking for Traps or Should We Be Looking for Fluids?"

For the first time in the Society's history a talk was postponed (April 28, 1998) due to technical difficulties. The presentation was rescheduled but incurred additional costs to the Society and was poorly attended. Following this incident the Committee arranged for audio-visual staff to be on hand for every subsequent luncheon in its entirety to ensure that this problem does not reoccur.

The 1997/98 presentations attracted more than 11,000 members and friends. The average attendance of 613 is significantly higher than that observed for the last two years. This is impressive when one considers that some of the venues have restricted attendance to 400 (the Metropolitan Centre) and 600 (the Calgary Convention Centre and the small dining room at the Westin Hotel) on several occasions.

The Technical Luncheon Committee attempts to provide the Technical Program to the Membership at cost. Ticket prices were increased 21% this year to account for increased meal costs. The new price is \$20.00 plus G.S.T. The revenue from ticket sales is directed towards the cost of the lunch as well as the printing, staging and administrative costs associated with each luncheon. A new ticket sales program was also initiated to decrease the administrative efforts associated with the ordering and distribution of the luncheon tickets.

Due to the difficulty in reserving appropriate venues to showcase the Luncheon Speakers, and in an attempt to minimise cost increases, the Committee continues to schedule luncheons in the Westin Hotel, the Calgary Convention Centre and the Metropolitan Centre. Additionally, one presentation was scheduled at the Calgary Centre for Performing Arts. Each venue presents its own unique challenges but with the assistance of our audio-visual team we believe that the luncheons can be a success in every location.

The Committee is attempting to increase student exposure to the Society and the Technical Luncheons. An industry sponsored student table has been established and hosts Earth Science

students from the University of Calgary, Mount Royal College and SAIT on a rotating basis.

The Committee would like to thank all of its presenters in 1998. Sincere thanks are also due to the Society and the office staff. Without wide support the Technical Luncheons would not be possible.

CSPG ON-LINE COMMITTEE (Glenn Karlen, Chairperson)

The goals for the past year for the On-Line Committee were to continue to enhance the on-line presence of the CSPG through a third party internet service provider, Enernet. Unfortunately, the commitments made by Enernet never came to fruition and, of recent, they have decided to get out of the internet service provider business. Unfortunately, due to Enernet's lack of commitment, there were no real enhancements to the CSPG's web page in 1998.

Consequently, the CSPG website will be moving once again and will undergo another redesign to fit with this move and bring it more in line with the design of the *Reservoir*. Because an expectation of the site will be to generate revenue through advertising, the site design and content will be critical to attract "viewers" and advertisers alike.

The CSPG website will now benefit from the "one-stop shopping" direction for CSPG publications, notably MacDonald Cole. The website will be moved to a secure server that has the experience to bring our Society into the realm of e-commerce while integrating our membership and financial databases. More content such as *Bulletin* abstracts, *Bulletin* articles, searchable members lists, event calendars, and an electronic forum are still planned and are expected to be added in the coming months.

Once the site has been moved and the enhancement plan is in place, a general call will be made to the membership to revive the On-Line Committee and ask for volunteers. With a reliable internet service provider and designer in place, the Committee can focus on the direction of the website, enhancements to the site and the contacts to

other Society committees and divisions to add technical and other relevant content to the website.

I look forward to an exciting year in developing our website and hope that you might consider joining the committee for the coming year.

CONTINUING EDUCATION COMMITTEE (Tim de Freitas, Chairperson)

The Continuing Education Committee was involved in more than 20 short courses between Jan 1 and Sept. The volunteer committee members worked very hard to coordinate the logistics and other related activities. There are several new committee volunteers that have joined recently: Mark Hearn, Jason Montpetit, and Alexis Anastis. They will fill the gaps in the Committee left by Dean Williams and Dale Cederwall. Mark will coordinate the field trips for the 1999 conference, while Alexis will organize conference-related short courses. Thanks to the eagerness of the Committee members, the CSPG will benefit from a good cross section of courses and field trips during the 1999 conference, and plans are already underway for the large 2000 conference. Alexis and Mark coordinate conference activities through the Committee, but they will assemble a separate group of CSPG volunteers to orchestrate 1999 conference-related activities. In addition to these new members, veterans Gord McClean, Marc Mallamo, Suzan Moore, Natalie Sweet, and Brent Wignall did a hefty amount of work on courses dealing with regional geology of the WCSB; aeromagnetic data interpretation; carbonate sequence stratigraphy; carbonate facies in core; structural styles in fold and thrust belts; and numerous conference-related short courses. We will continue to pursue instructors for those courses deemed important to the CSPG members in the petroleum industry, but we are always willing to consider new courses on or off our present course list. We continue to wrestle with the topic of instructor remuneration, and we try to strike a middle ground with respect to the fee schedule of other North American geoscience organizations.

ONE DAY FIELD TRIP COMMITTEE (Dean Williams, Chairperson)
No report available.

TECHNICAL DIVISIONS

BASIN ANALYSIS DIVISION (Annemone Altebaeumer, Chairperson)
No report available.

STRUCTURAL GEOLOGY DIVISION (Normand Begin, Chairperson)

The activities of the CSPG Structural Geology Division in 1998 included 13 talks, 8 during the lunch session and 6 at the evening session. With two field trips, one in the early summer and the other in the early fall, the Division had one of its most successful years of involvement and interest, given the level of participation. The talks were attended by 20 to 75 people and covered a wide variety of topics, such as extensional, strike-slip and compressional tectonic regimes; fractures study in hydrocarbon reservoirs; fold kinematics; seismic modeling of geological foothills structures promoting anisotropy.

Evening technical series for 1998:

- January: "Fifth Annual Structure Group slide evening show."
- February: "Mesozoic to early Tertiary underthrusting, extrusion and exhumation of crystalline rocks from deep within the Rocky Mountains orogenic wedge - evidence from the Monashee Complex, SE British Columbia." Dennis Johnston (Petro-Canada)
- March: "The timing of cooling, denudation and uplift of the southern Coast Mountains, and its relation to the contemporaneous development of structures in the eastern Cordillera: a discussion." Lisel Currie (Geological Survey of Canada, Calgary, Alberta)
- April: "Structural styles in the Canadian Rockies: an open discussion "

Discussion among the audience with Paul MacKay (Northstar Energy) as moderator.

- October: "The fold-and-thrust-belt in the Fort-Liard area, NWT-YT-NBC: deep structures, transpression and stratigraphic complications. "
- Denise Hodder (Foothills Research Project, University of Calgary)
- November: "Extensional and subsequent compressional tectonics of the western North American margin in southeastern B. C., and implications for foreland basin development. "Marian Warren (PanCanadian Petroleum Ltd.)

Evening technical series for 1998:

- January: "Aspects of foreland belt thermal and geological history from fission track data: the age of Lewis thrust and Flathead normal fault." Kirk G. Osadetz, Barry P. Kohn, Shimone Feinstein, and Raymond A. Price. (Geological Survey of Canada)
- February: "Integrating surface, seismic, airborne radar and high resolution aeromagnetic data in the southern Mackenzie and Franklin mountains, NWT, YT and BC." Denise Hodder (Foothills Research Project, University of Calgary)
- March: "Fracture size, density, orientation and connectivity determinations" William Jamison (The Upper Crust Inc.)
- April: "Evaluating structural play leads using numerical and Graphical analyses of dipmeter data." Bruce Wrightson (Gaia Software Inc) and Byron Veilleux (Petro-Canada Oil and Gas)
- May: "Seismic physical modeling experiments through an anisotropic overburden" Helen Isaac (Foothills Research Project, University of Calgary)
- October: "Kinematics of hanging-wall folds in the Front Ranges, Alberta and British Columbia" Geoff Rait (The Upper Crust Inc.)

- December: "Structural evolution of the Beaufort Sea" Larry Lane (Geological Survey of Canada)

On Saturday June 27, the Structural Division had its first field trip of 1998 at Canyon Creek area, on " Folding and Fracturing within carbonates of the McConnell Thrust Sheet ". The trip was led by Paul MacKay and William Jamison who outlined several field examples of deformation mechanisms in geological structures of the Front Ranges. Under a bright and sunny sky, 32 people attended the trip and were quite pleased of this unique bedrock traverse along the valley of Canyon Creek.

To make this trip successful in terms of logistic, the following companies are thanked warmly.

- Petro-Canada Oil and Gas
- Amoco Canada Petroleum Company
- Ulster Petroleums
- Talisman Energy
- Conoco Canada
- Husky Oil Operations

These sponsors provided the funds necessary to run the trip, such as field guide reproduction, rental of vans for transportation, snacks, beverages and gifts to the field trip leaders. Thanks again to the leaders, participants and Mother Nature.

During the weekend of September 11-13, the Structural Division had its second field trip of 1998 at Delphine Creek in the Purcell Mountains, SE British Columbia. Kevin Root (Shell Canada) successfully led the trip, which outlined several great examples of the Middle Devonian Antler fold and thrust belt and foreland basin development. The trip was attended by 15 people under a sunny sky and warm sun, in this very scenic alpine region of the Purcell Mountains, situated above tree line between 7500 and 9800 feet elevation. The participants camped overnight in a very nice meadow. Every participant were very pleased with what they saw and learned through Kevin's work in the area. Great thanks to him for such a great outing.

Special thanks to Marian Warren (PanCanadian Petroleum) and Rob Scammell (Poco Petroleums) for taking care of the logistics as well.

Congratulations to all the speakers who volunteered to present their interesting work and research, for their very much appreciated contributions to the CSPG Structural Group. Also special thanks to leaders, participants and the sponsors of the field trips, for two successful great outing of the CSPG community.

SEDIMENTOLOGY DIVISION (Paul Fejer, Chairperson)

No report available.

ENVIRONMENTAL GEOLOGY DIVISION (Paul Whitby, Chairperson)

No report available.

HYDROGEOLOGY DIVISION (Steve Burnie, Chairperson)

No report available.

GEOMATHEMATICS AND COMPUTER (Bruce Palmer, Chairperson)

No report available.

INTERNATIONAL (Wayne Ashbourne, Chair person; James Taylor, Ray Featherstone, Dave Dolph)

Committee members during the past year were Wayne Ashbourne, James Taylor, Ray Featherstone and Dave Dolph. All Luncheon presentations were held in the PanCanadian Amphitheatre and the Committee would like to thank PanCanadian Petroleum and Eucalyptus Consulting Ltd. for providing facilities and refreshments. Also a special thanks to the 8 noon luncheon presenters who gave freely of their time. The luncheon presentations were generally well attended with attendance reaching up to 80 people. Topics ranged from transpressional underthrusting to oil in the fore-arc, South Sumatra.

Plans for 1998/99 will include a variety of presentations from different areas of the world. Anyone wishing to give a luncheon presentation or provide suggestions should

contact Wayne Ashbourne at (403) 256-0593, fax 256-1179, or email at ashbourw@cadvision.com.

RESERVOIR/DEVELOPMENT GEOLOGY
(Darren Steffes, Chairperson)

No report available.

PALEONTOLOGY DIVISION (Charles Henderson, Chairperson)

No report available.

BUSINESS

ADVERTISING COMMITTEE (Norbert Alwast & Tim Bird, Co-chairs; Bob Kuchinski, Cheryl Wright, Tom Pierce)

The Committee met the challenge of filling the new larger format of the CSPG *Reservoir* and brought in \$142,876.02 revenue from advertisers.

The practice of booking and charging ads for internal (CSPG) committees as well as external (for profit) advertisers was instituted. We sat on the editorial committee of the *Reservoir* and participated in design decisions. Running what evolved into an advertising agency became too large and complex to handle continuously with volunteers. As a result, on our recommendation, the Executive agreed to hire a dedicated marketing, printing and design consultant.

Effective in September of 1998, MacDonald/Cole Inc. will be handling all of our day to day business, with McAra Printing as the design, paste-up, and printing provider for both the *Reservoir* and the *Bulletin*.

The *Reservoir* has now become a viable "in the black", colour publication capable of being a money maker for the Society. We intend to direct our marketing consultants to continue building the *Reservoir* into a first-class vehicle that serves our membership. We also plan to consolidate all activities of promotion and advertising in the Society (including the calendar, luncheon ads, internet, conventions, etc.) so that advertisers have access to one central group to promote their product or service.

Revenue	1996-97	1997/98	%change
<i>Reservoir</i>	70,634.00	142,876.02	202%
<i>Bulletin</i>	nil	nil	nil
Calendar	7887.00	n/a	-
Luncheon	7,500.00	6,825.00	-
Total	86,021.00	149,701.02	174%

PUBLICATION SALES Jaimè Croft-Ramos, Publications Manager)

The 1997-98 Society year was a year of change in the Publication Sales department of the Society. Peter Harrington, long time Chairman of the Publication Sales Committee, retired at the end of last year, and his duties were then taken over by the CSPG Office. I, as Publications Manager, now deal with the sale and promotion of CSPG books, handle consignment publications, maintain our publications archive and provide the Society and Executive with sales information concerning our publications and merchandise. We are now maintaining a record of historical sales information in the office, in order to track the success of our publishing and budget accurately for new publication projects. The financial report for publication sales is included in the audit financials of this report.

A number of publications were reprinted in the last year. This includes *Western Canada Sedimentary Basin: A Case History*, *The Stratigraphic Organization of Incised Valley Systems* and a CD Rom version of *Lexicon 4: Western Canada*. The CD Rom has been very popular and we expect to sell out by the Spring of 1999. The Society is currently looking at putting a number of other publications, including the *Bulletin*, on CD Rom. This would be for archive purposes, as well as for those customers who prefer electronic versions of our material. The Society contributed to the production of *A Travellers' Guide to Geological Wonders in Alberta*, produced by the Provincial Museum of Alberta. This book is currently for sale in the CSPG office and sales to date have been brisk. The Society also sold a special edition of the *Bulletin*, *Triassic of the Western Canada Sedimentary Basin*, which is nearly sold out. A new publication which is currently under production is the *Oil and*

Gas Pools of the Western Canada Sedimentary Basin, edited by John Hogg, PanCanadian Petroleum Ltd. This publication is the result of the Pools '96 conference and will be available for sale in early October 1998.

The office continues to offer a number of AAPG, GAC, GSC and SEPM publications to our members, which we sell on consignment. Due to limited storage space, the AAPG and SEPM titles have been pared down to include those titles which are most popular with our customers. Our selection is still quite extensive and we regularly receive new publications from all four societies.

During the last year, I have tried to focus on the promotion of our books in order to increase sales. New promotions have included mail-outs to members, non-member book customers, universities, book agents and fellow societies, table drops at CSPG Luncheons, inserts in the Reservoir and convention materials, as well as book sales and price reductions on older materials. The focus on promotions has doubled this year and plans now also include monthly promotions included in the Reservoir, external ads with sister societies and the inclusion of our books at www.amazon.com, (the largest "bookstore" on the internet). We are also pursuing a consignment arrangement with the AAPG, by which they will sell our books through their Tulsa offices. A similar arrangement is being proposed to The Geological Society in England.

The office is open to any suggestions concerning our Publications and members comments may be directed to my attention, at the CSPG office. We are also welcome to suggestions for consignment publications the membership would like to see us carry.

MEMBERSHIP COMMITTEE (Kevin Polan, Chairperson; Marc Charest, Gerald Kvill, Keith Masters, John Ostrom, Deanna Watkins, ex-officio member)

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

	1994	1995	1996	1997	1998
Active	2669	2662	2671	2715	2690

Assoc.	167	185	195	105	230
Student	128	152	118	212	112
Emeritus	155	153	144	137	133
Corporate	50	36	32	56	65
Honorary	45	46	43	43	43
Total	3206	3231	3203	3268	3273
Subscribers	357	335	326	301	288

Thanks to the efforts of the Executive, Corporate Membership has again increased this year but it is still less than what we hope to achieve. There has been a modest increase in overall membership since last year but we must be aware of possible erosion should there be a downturn in the business.

HONOURARY ADDRESS (Elizabeth O'Neill, Co-Chairperson)

This year the Honourary Address Committee took a slightly different approach to the yearly CSPG Address. Through a joint venture with the **IMAX Theatre** at Eau Claire Market the CSPG was able to present a 9 day film festival of nature films titled "**Our Living Planet**". Running in **Science and Technology Week**, six different films were presented on a rotating basis throughout the festival, with a number of the presentations having introductory speakers supplied by the Calgary Zoo and CBC Calgary. We were able to reach 11,536 people during this week of which 5,300 were school children and 1,819 were in the highly price discounted family program. Tickets for schools were subsidized by a number of generous corporate sponsors, allowing a large number of children to see excellent science films that they might not otherwise have the opportunity to enjoy.

CALENDAR COMMITTEE (Carl Hughson, Chairperson)

No report available.

PHOTOGRAPHIC COMMITTEE (Vic Panei, Chairperson)

During the year, the Committee provided photographic coverage at most of the Society's luncheon meetings, as well as at the Awards dinner.

The Committee is looking for two volunteers to share duties in taking photographs at the luncheon meetings. If interested please call Vic Panei at 691-9788.

ARCHIVES AND HISTORY COMMITTEE (Clint Tippett, Chairperson)

The Committee experienced a relatively low level of activity over the past year during which the chairmanship passed from the long serving Jack Porter to Clint Tippett. Projects in progress include assistance to the Executive in determining membership application dates for long-serving members of the Society and a plan to organize a photographic archive of Society activities. An attempt may be made to revive a historical lookback. Future initiatives are likely to include a historical calendar, field trips and a closer working relationship with the Petroleum History Society on matters of geological interest.

GROUP INSURANCE (Bev Pfeffer, Chairperson)

CSPG group insurance plans covering life, health, long-term disability, dental, automobile, and home insurance offer very competitive rates and continue to be well received by the membership.

MANPOWER SURVEY (Keith Deutsch, Chairperson)

No report available.

NOMINATING COMMITTEE (Ric Sebastian, Chairperson)

SOCIAL EVENTS

PAST PRESIDENT'S DINNER (Gerry Reinson, Chairperson)

The Past President's Dinner is an annual event hosted by the immediate Past President, to which all past presidents of the Society are invited to contribute with opinions and comments on current affairs affect the Society and the geoscience community.

The 1997 dinner was held November 7 in the Fireplace Room of the Calgary Chamber

of Commerce, and was attended by 23 past presidents and current Executive. Following the meal the current President, Ric Sebastian, reviewed the past year's activities. Ric's presentation included information on a variety of topics, including the new *Reservoir* format, office move, current state of the Society's finances and the long term financial plan.

AWARDS DINNER (Douglas Carsted, Chairperson)

The annual Awards Banquet was held at the Palliser Hotel on Wednesday, June 4, 1997 in conjunction with the Joint CSPG SEPM 1997 conference. Past President Gerry Reinson presided over the evening's events which were attended by 216 members, spouses and guests. After an excellent dinner the Society's major awards for professional and technical excellence were presented. A special presentation was made on behalf of the Convention by Christian Viau, Jeff Packard, Benoit Beauchamp and John Hopkins to the Sloss family in memory of their father Dr. Laurence L. Sloss. Following the awards all those in attendance were given a guided tour of the Canadian Rockies by Lisa Christensen author of the book *a Hikers Guide to Art of the Canadian Rockies*.

MEN'S ANNUAL GOLF TOURNAMENT (Scott Oldale, Chairperson)

No report available.

CSPG MIXED GOLF COMMITTEE (Dick Willott, Chairperson; Andrea Henry and Val Edwards, Registration; John Williams, Geoff McMillian and Dave Work, Sponsorship; Chelsea Szanik, Treasurer; John Ostrom and Rick Sereda, Prizes; Jan Crandall, Penny Harley, Bob Dick, Executive Liaison)

The 9th Annual CSPG Mixed Golf Tournament was held at the Darcy Ranch on August 28, 1998. The course was in great shape, and the 135 players who participated were treated to cloudless skies and near perfect temperatures. The event was highly successful and the cost was right on budget. Originally, the number of golfers was to be

120, but was increased to 136 due to demand.

This year's trophy winners:

Low Gross -- Tony Militano, Ron Shirley, George Fraser and Krista Toews.

Low Net -- Bob Sullivan, Paul McNabb, Dwayne Sparks and Russ Oicle.

High Gross -- Al Enevold, Don Reid, Dorothy Haerberle and Don Zver.

Many thanks to my Committee members, whose hard work made for a wonderful, smoothly run event. Thanks to all the sponsors and contributors, especially to Financial Management, our lead sponsor, for their continuing and generous support. Thanks to all who enjoyed the day with us.

CSPG SQUASH TOURNAMENT (Solana Jear, Chairperson)

No report available.

CSPG 10K ROAD RACE (Vic Urban, Chairperson)

The Ninth Annual CSPG 10 K Roadrace was run on Wednesday September 17, 1997 in the Eau Claire / Prince's Island area. This was the first year the event was held at this new venue and approximately 75 entrants took part in the race. The weather was a bit on the misty side but it was nice and cool to run under those conditions. The first finisher was Adrian Shorter in a time of 32:30, the first female runner was Gaylene Pridham at 37:01. The first place geologists were Lonnie Matsuno of Petroleum Information Canada at 34:16 and Denise Woofter of Canadian Hunter Exploration at 40:40. Our top geophysicists were Andy Williams of Wascana Energy in 36:55 and Lorna Hawley of Kelman Seismic Processing in 43:51. The race participants were able to shower and change at the Eau Claire YMCA and then headed over to Zzips Pizza Parlour for post-race fun and refreshments.

The race organizers would like to thank the following sponsors; Mobil Oil Canada, Alberta Energy Company, QC Data, Tokpella Resources (MOLE), Gord's Running Store, Decollement Consulting Ltd. Precision Seismic Processing, Tarragon Oil & Gas

Limited, Canadian Hunter Exploration, International Exploration Consultants, BPB Wireline Services, Cabre Exploration Ltd, Summit Resources Ltd. Canada Brokerlink and Arcis Corporation/Probe Data Inc.

Next year's race has been run by the time you read this and I know that we will have had a good race with exceptional conditions. Also the group of people organizing the event will have completed their tenure and so we are soliciting volunteers to take over a variety of positions on the committee. Contact Vic Urban at 781-1713 or e-mail vurban@probedata.com Happy running

OUTREACH PROGRAMS

STUDENT INDUSTRY FIELD TRIP (Regan Palsgrove, Crestar Energy, Chairperson; Larry Strong, Waterous Securities, Treasurer; Shaun Alspach (Crestar); Wes Bader (Union Pacific); Byron Bahnsen (GLJ Assoc.); June Barker (Gulf); Robert Briscoe (Husky); Matthew Caddell (U of C); Allan Carswell (CNRL); Mike Desroches (CNRL); Paul Fejer (Union Pacific); Doug Hamilton (AGAT); Denise Hodder (U of C); Catherine Huff (Conoco); Sandra Noel (Husky); Indraneel Raychaudhuri (Cypress); Trent Rehill (Chevron); Lisa Sack (Gulf); Blythe Slater (PanCanadian); Greg Soule (Amoco); Brad Spence (Chevron))

This year was the 20th anniversary of the CSPG's annual Student Industry Field Trip, otherwise known as the "SIFT Trip". SIFT 1998 was held from May 3 -15. What started as a relatively simple four-day field trip to the Rocky Mountains in 1978, has now evolved into an action-packed twelve-day trip comprised of field trips to the Rocky Mountains and Badlands, lectures and core seminars from industry experts, a rig tour, a fly over, a simulated exploration game, and much more. This year, the top third-year (and occasionally fourth-year) geology student from each of thirty-four universities was chosen to attend. As in past years, a small number of geophysicists and geological engineers with a strong background and interest in geology were also chosen.

The objectives of the SIFT trip today have expanded since 1978. The SIFT trip provides a unique opportunity for students from across Canada to learn about the oil industry in a practical, hands-on fashion, taught by industry people. It gives the students a chance to interact and network with industry people, and make essential contacts that will aid them in the future. Finally, the SIFT trip encourages Canada's top geology students to consider the petroleum industry as a career, and provides a forum for companies to meet with (and consider for employment) some of Canada's finest earth science students.

A relatively new component that has been added to the SIFT trip in recent years is the SIFT summer job program. Oil companies are approached and invited to interview the SIFT students during the trip, and have the opportunity to hire one (or more!) of these excellent students. This year, 17 SIFT students participated in the SIFT job program, of which 8 acquired jobs with Fina, Gulf, Newport, Conoco, Anderson, and Pinnacle through the SIFT-organized interview process. An additional 3 students got jobs on their own with Ranger, Chevron, and UPR, by staying in Calgary after the trip and making use of their newly acquired contacts. SIFT students make excellent summer students; as a result of their participation in the SIFT Trip, they are particularly motivated and well equipped to tackle a summer project. They know how to interpret logs and other well data, they are comfortable looking at core, they are familiar with several play types and analog pools, and, perhaps most importantly, they know how to develop a prospect. If you are interested in hiring a SIFT student in 1999, please contact Lisa Sack at Gulf Canada, or any other committee member as soon as possible.

As always, SIFT 1998 was a huge success. The students were immersed in the "how-to's" of finding oil and gas from the minute they arrived. One of the first activities they participated in was the "exploration game", which continued throughout the trip. In this game the students were broken into

four-person "exploration company" teams. Each team was given for \$10 million dollars, which was used to bid on land and drill wells in several exploration plays. Only real well data, slightly modified, was used in the game. The students were taught simple economics to help guide their strategy. Joint ventures were formed, land was farmed in and out, and well information was actively "scouted"! Some new features added to the game this year included the addition of seismic data, and, in keeping with the realities of this year's market, the oil price (and resultant netbacks) varied day-to day! The "exploration companies" quickly learned the value of teamwork, as each member of the team contributed their knowledge. The students presented their financial and technical results to a "board". Technical and financial awards for the best presentations were given at the final wind-up cocktail party, which was attended by many industry leaders.

The four-day field trip to the Rocky Mountains was the highlight of the trip for many of the students, on which they learned structural geology in a way no text book could teach. The students were also introduced to carbonate geology and foothills exploration plays. The concepts were solidified during a Rocky Mountain fly-over later in the week. A one-day field trip to Dinosaur Park, another highlight, provided a wonderful look at clastic rocks and exploration plays, in addition to spectacular dinosaur bones! A field trip to a working drilling rig, trips to the EUB core lab, and geology and petroleum engineering lectures and core seminars filled up the rest of the trip. Topics presented include horizontal drilling, logging, geochemistry, heavy oil, carbonate and clastic sedimentology, production technology, east-coast exploration and international exploration. Any individual interested in a rewarding experience contributing their time as a lecturer or field trip guide should contact Lisa Sack at Gulf Canada.

SIFT 1998 went off without a hitch this year thanks to the hard work and organizational skills of the large SIFT

Committee. All the committee members spent numerous hours of their own time. Thanks are also due to their employers, who provided them with the secretarial and logistical support this trip demanded. In 1999, Denise Hodder and Lisa Sack will take over leadership of the SIFT Committee as co-chairpersons. The majority of the rest of the Committee is expected to return. The Committee is already excited about, and starting to plan SIFT 1999.

Once again, SIFT 1998 relied heavily on volunteer support from a number of individuals aside from those "officially" on the SIFT Committee. Local industry geologists and engineers gave excellent, well-prepared lectures and seminars, judged the game presentations, and attended social events to interact with the students. Planes for the fly-over were provided by several companies, and core tables were paid for by the presenters' companies. In addition, many ex-SIFT students came out to help at the exploration game sessions. There are too many people to thank here, but their help was greatly appreciated.

Over the last 20 years, SIFT has equipped over 600 enthusiastic young geologists to enter the petroleum industry in Calgary. There are no exact statistics on how many have entered and stayed in the petroleum industry, but it appears that well over half are contributing members of our industry. Many of these may not have ventured into our industry without the exposure they received on the SIFT Trip. Thanks to the Educational Trust Fund, the SIFT Trip will continue to lure bright young geoscientists into the petroleum industry in Calgary well into the 21st century.

VISITING LECTURER COMMITTEE (Henry Klassen, Chairperson; Bill Beaudoin)

No report available.

SEDIMENTOLOGY DISPLAY COMMITTEE (Michael Breiteneder, Geoff Burrowes, co-Chairmen; Ben McKenzie)

No report available.

LIAISON COMMITTEES

EDUCATIONAL TRUST FUND (N. Desmond Smith Chairperson, Ed Wright, Rick Young, Don Axford, Ian Hutcheon, Kathryn Scales, Dave Work)

No report available

AAPG HOUSE OF DELEGATES (Matt Woofter Chairperson)

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. The CSPG currently has 1,050 paid Active members in the AAPG. Therefore, the CSPG is represented by 14 Delegates who are serving three year terms, as follows:

Term Ends	Delegate
June 30, 1998	Patty Chesterman
	Paul English
	Kathryn Scales
	Brad Maynes
	Russ Oicle
June 30, 1999	David Scott
	Martin Hewitt
	John Hogg
June 30, 2000	Robert Sullivan
	John Chipperfield
	George Eynon
	Christopher Heath
	Debra Nishida
June 30, 2001	Matt Woofter
	Michael Clegg
	Paul English
	Tom Moslow
	Brad Maynes
	David Scott

The House of Delegates oversees all legislative affairs within the scope of the Constitution and Bylaws of the AAPG. Delegates serve as representatives of the local affiliated society but, since they are

elected by active AAPG members, also serve the interests of these members as well as the Society. Delegates are the appropriate channel through which individual members can bring influence to bear on the affairs of the AAPG. In addition to these duties, Delegates also verify qualifications and process all AAPG membership applications and Certified Petroleum Geologist applications submitted from Alberta and British Columbia.

During 1997-1998 term, the group met 8 times in Calgary, with the House of Delegates Annual meeting being held Sunday, May 17th in Salt Lake City during the AAPG Annual Convention. The new House Officers for the 1997-1998 term are: Thomas Mairs, Dallas Geological Society (Chairman); **John Hogg, CSPG (Chairman-elect)**; and Jean Lemmon, Tulsa Geological Society (Secretary-Editor).

The House of Delegates is responsible for nominating and supporting candidates for AAPG Executive positions. We acknowledge and thank Anthony Tankard (Vice-President candidate 1998) for his willingness to stand for Executive positions.

The House of Delegates is also responsible for nominating and endorsing candidates for AAPG Honors and Awards for 1997. We are proud to have succeeded in nominating Dr. Gerry Middleton, McMaster University, for the Distinguished Educator Award which he received in Salt Lake City.

CSPG Delegates were active in AAPG affairs during the past year with Committee work performed by the following:

Martin Hewitt	Resolutions Committee 97/98 Nominations and Elections Committee 97/98
John Hogg	Future of Earth Scientists Committee 97/98 (Chair) Constitution and ByLaws Committee 97/98 AAPG Advisory Council 94-98
Paul English	Credentials Committee 97/98

George Eynon	Honors and Awards Committee 97/98 (Chair)
Chris Heath	Future of Earth Scientists Committee 97/99
David Scott	Nominations and Elections Committee 97/98

John Hogg was elected Chairman-elect for the 1998/99 House of Delegates to the AAPG. In the 1999/2000 term John will be the first International Chairman of the AAPG House of Delegates.

The 1998-1999 AAPG Distinguished Lecture series will feature one Canadian lecturer; S. George Pemberton of the University of Alberta.

We would like to thank Kathryn Scales for an outstanding job performing the duties as a delegate and formerly as Chairman during her term. Kathryn resigned from the committee to pursue responsibilities resulting from her election to the CSPG Executive. Matt Woofter will continue as Chairman for the term ending June 30, 1999.

ROYAL TYRRELL MUSEUM (Darren Lunt, Chairperson)

More than fifteen years after opening, the Royal Tyrrell Museum continues to attract some 400,000 visitors each year to its world-renowned facility located outside of Drumheller, Alberta. 4.5 billion years of Earth's history are related to the public through hands-on displays, innovative computer simulations, life-like dioramas, and the world's largest exhibit of complete dinosaur skeletons. As Canada's only museum dedicated exclusively to palaeontology, we pride ourselves in telling a fascinating story of birth and death, struggle and survival.

After this summer, the story is even more fascinating. Fieldwork resulted in many exciting discoveries. Skeletal remains of eight armored ankylosaur dinosaurs discovered in Dinosaur Provincial Park are helping our scientists better understand how these unusual animals lived and how the different species were related to one another. In two days of collecting from the

Upper Cambrian-aged, Burgess Shale-type rock in B.C.'s Rocky Mountains, Dr. Paul Johnston quadrupled the Museum's trilobite collection. Dr. Philip Currie uncovered the remains of a juvenile albertosaurus from Barnum Brown's 1919 theropod bonebed, providing further evidence of pack behavior among large theropods. Dr. Betsy Nicholls discovered a 22 metre-long ichthyosaur near Pink Mountain, B.C., making the find one of the largest on record. Dr. Dave Eberth worked with a team of American and German scientists in central Germany (former East Germany) examining spectacular occurrences of 280 million year old amphibians and reptiles that make up the world's oldest known complex terrestrial ecosystems. As well, Dr. Eberth lead several oil company field trips and worked with Dr. Clive Trueman from Bristol University, examining the geochemistry of bone fossilization.

The development of partnerships within the petroleum industry is helping continue the work of the Royal Tyrrell Museum. Associations created are designed to be "win-win" for the Royal Tyrrell Museum, its donors, and the thousands of visitors who tour the facility each year.

The petroleum community's favorable response to requests made by the Royal Tyrrell Museum is appreciated. Following the lead of NOVA Corporation's sponsorship of the NOVA Discovery Room and Imperial Oil's support of the Devonian Reef exhibit, new partnerships were formed in 1997 and 1998, assisting the Museum in meeting its mandate of progressive research, interpretive educational programming, and innovative exhibitry.

Canadian Occidental Petroleum (Can Oxy) became the sole sponsor of the Museum's popular Science Hall, an area dedicated to hands on learning of science properties and principals. This area, thanks to Can Oxy, will be redeveloped as part of the major renovation planned for the Museum's Introductory Gallery.

Chevron took an interest in the Museum's "Discovery Suitcase" program. This unique project brings the Museum into classrooms

across the province. The program supports students studying geology, fossilization, invertebrate fossils or dinosaurs. The kits sponsored by Chevron include real fossils, hands-on materials and comprehensive grade-specific resource guides to help teachers present the information.

The question surrounding of the origins of oil and gas is answered in a new fact sheet sponsored by Talisman Energy. Developed in conjunction with their company's geologists, an informative overview of the topic is now featured on our mutual homepages as well as being available as a hand out for distribution to schools and community groups.

A major new exhibit featuring the creatures of the Burgess Shale opened on June 20th. The impressive new addition to the Museum's gallery was made possible by a number of donors and foundations committed to the project's objective of providing a unique look at the bizarre life that lived over 530 million years ago. PanCanadian Petroleum took the lead as the project's benefactor by contributing a major donation. Other sponsors included the Weston Foundation, Canadian Geological Foundation, Museum Assistance Program, the Nickle Family Foundation, and the McLean Foundation.

During the excavation of a 2,000-kg juvenile hadrosaur from Dinosaur Provincial Park, a dilemma developed as to how to transport the specimen back to the Tyrrell Museum. Fortunately Amoco and Jo-Ann Trucking teamed up and shared the expense of bringing in Jo-Ann's special off-road truck, the Commander. The large big-wheeled truck was powerful enough to move the specimen out of the park without damaging the terrain.

Global expeditions to other palaeontological sites are very important to the advancement of scientific research. The comparative date obtained helps us understand more about the ancient life that once lived in Alberta. To date, researchers from the Tyrrell have participated in expeditions to China, Argentina, the Arctic, and the United States. Thanks to support

secured from Hurricane Hydrocarbons, an expedition into Kazakhstan is currently being organized for the spring of 1999.

The Royal Tyrrell Museum is proud to be associated with the many funding partners who have taken an active role in helping preserve Alberta's rich palaeontological heritage. The reasons for giving vary between the corporations who choose to support the Royal Tyrrell Museum. Our interpretive programming, world-class exhibitry and leading edge research offer donors the opportunity to direct their support to a specific area of interest. From education and children to sciences, culture, and environmental protection, the Tyrrell is actively involved.

It is our goal to make sure the relationships formed remain positive and mutually beneficial. As we move towards undertaking one of largest capital campaigns in the history of the Museum, the base of support secured now will move us closer to achieving our future goals.

**WORLD PETROLEUM CONGRESS
LIAISON COMMITTEE** (M.E. Hriskevich,
Chairperson)

No report available.

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

Highlights of the 52nd. NACSN Annual meeting, Salt Lake City, UT, October 20, 1997, attended by R. W. Yole and Brian R. Pratt, are outlined below. Official summaries of NACSN proceedings are published biennially in *AAPG Bulletin*; Note 62: Records of the Stratigraphic Commission, 1992-1994 appears in the *Bulletin* for August, 1997, p. 1342-1345.

Chairman James O. Jones (University of Texas, San Antonio TX) reported on the successful NACSN 50th. Celebration Session at the 1997 CSPG/SE Annual meeting in Calgary. The session "Larry Sloss' Legacy and Teaching of Stratigraphy" was organized by Commissioner Beauchamp (Geological Survey of Canada,

Calgary, AB) and his committee. Three sessions organized by Andrew D. Miall (University of Toronto) and Henry W. Posamentier (ARCO, Plano TX) on "Systematics of Sequence Stratigraphy" were also sponsored by NACSN. The possibility of publishing a symposium volume based on these four sessions will be explored with Commissioner Beauchamp.

Chairman Jones urged the Commission to adopt a more active role in sponsoring sessions at Geological Society of America and other geological meetings on the status of teaching of stratigraphy. He also reported that Commissioner Fakundiny (New York State Geological Survey, Albany, NY) hosted the special NACSN working session on Inconsistencies, Imperfections and/or Errors in the Stratigraphic Code, February 22-23, 1997 in Albany. Commissioner Fakundiny was also instrumental in developing a digitized version of the text of the Stratigraphic Code. Later discussion at this meeting revealed that Commissioner Bruce R. Wardlaw (U.S. Geological Survey, Reston, VA) had digitized versions of the figures of the Code. Commissioners agreed to authorize the USGS to distribute a digitized version of the Code including both text and figures. The success of the Albany workshop session led to the suggestion for a similar workshop session on the Sunday before the NACSN annual meeting at GSA Salt Lake City. This resulted in a fruitful pre-GSA session on the Biostratigraphy section of the Code. This section (Articles 48 to 54) has been intensively reviewed during the past year by Vice Chairman A. C. Lenz (University of Western Ontario, London ON), in collaboration with Commissioners Brian R. Pratt (University of Saskatchewan, Saskatoon, SK) and Lucy E. Edwards (U.S. Geological Survey, Reston, VA). A short paper outlining the perceived need for revision of the Biostratigraphy section and some of the accompanying concerns and problems has been submitted by this group to the International Union of Geological Sciences publication EPISODES.

Chairman Jones prepared material to support a request for NACSN membership in

the American Geological Institute. The AGI Member Society Council meeting on October 19 decided to defer consideration of the application until 1998. The NACSN Committee on Allostratigraphy/Sequence Stratigraphy chairman Don E. Owen (Lamar University, Beaumont TX) reported further activity by the International Submission on Stratigraphic Classification (ISSC) on sequence stratigraphic nomenclature. A recommendation for formal nomenclature of sequence-stratigraphic units is to be circulated first to members of the ISSC working group on sequence stratigraphy. The ISSC term "synthem" may be abandoned, accompanied by suggestions for abandonment of the North American -- allostratigraphic units". Commissioners voted in favour of appointment of Commissioner Norman P. Lasca (University of Wisconsin at Milwaukee, WI) as NACSN member of the ISSC on an interim basis.

Further progress toward a final report of the ad hoc committee on Inconsistencies, Imperfections and/or Errors (IIE) in the Stratigraphic Code was reported by committee chairman Commissioner Ismael Ferrusquia Villafranca (Universidad Nacional Autonoma de Mexico, Mexico DF). A special session of NACSN in Albany, NY in February, 1997, devoted entirely to the earlier report submitted by Commissioner Ferrusquia Villafranca, clarified many of the items and led to a revised version of the IIE report, circulated to Commissioners before the Salt Lake City meeting. Further revisions were accomplished at the pre-GSA working session October 19, 1997. The sections on Biostratigraphy and Diachronic units are now to be further reworked by subcommittees. The remaining sections of the August 26, 1997 version of the IIE report will be reviewed by all Commissioners, followed by analysis and final preparation by February 1998 for distribution to Commissioners before submission to American Association of Petroleum Geologists for publication. Commissioners Fakundiny and Paul R. Seaber (Desert Research Institute, Las Vegas, NV) were

appointed by Chairman Jones to investigate official affiliation of NACSN with GSA.

Commissioners Edwards, Ernest E. Mancini (Tuscaloosa, AL) and Owen were appointed to explore the possibility of a symposium session on allostratigraphy for the 1999 Denver meeting of GSA. The Chairman (Commissioner Lenz) and Vice-Chairman (Commissioner Ferrusquia Villafranca) for the 1997-1998 session of NACSN were elected by acclamation.

CSPG/CSEG/APEGGA LIAISON (Bill May, Chairperson)

No report available.

NATIONAL LIAISON COMMITTEE (Louise Quinn, Chairperson)

No report available.

CSPG/GAC LIAISON (Terry McCoy, Chairperson)

No report available.

PETROLEUM COMMUNICATION FOUNDATION LIAISON (Kathryn Scales, Chairperson)

The Petroleum Communication Foundation is a non-profit organization whose purpose is to increase Canadians' awareness of our country's petroleum industry. The CSPG has been a member of the PCF for over 11 years.

Highlights of 1997 include the following:

- Publications: Gasoline (backgrounder) -- Printing and delivery will be completed by early October. Gasoline (en français) - Completion scheduled for November. Taking the Mystery Out of Gasoline Prices -- updated text. Taking the Mystery Out of Gasoline Prices (en français) -- French translation. Canada Benefits -- updated version, completed by December, 1998. Technology -- Reprinted in French. Information Technology -- Now available on the website (see address below). Our Petroleum Challenge -- Sixth edition, completion targeted for December. Did

You Know ? Cards -- Updated cards for Saskatchewan, Alberta and British.

- Teacher Training Project: The Peace-Wapiti School District School Board has formally approved a PCF initiated project.
- Environmental Hazards: Sour Gas -- Ongoing discussions between the PCF and the AEUB to review the need for increased communications by the industry on issues relating to sour gas. The Foundation will endeavour to assist the public and the industry by producing new materials on this critical issue.
- Benzene -- PCF is working in conjunction with Petro-Canada to information concerning the effect of benzene on humans. A Petro-Canada report has been received and the Foundation will be exploring opportunities to explain steps the industry is taking to protect workers and the public.
- Board Game: Work continues with PanCanadian, Petro-Canada, and others to develop a board game to help students to learn about oil and gas (upstream). The project will be completed early in the new year and one copy will be provided to each school in Alberta.
- Petroleum Awareness Weeks: Foundation staff worked with CAPP and others to plan Petroleum Awareness Week in Saskatchewan
- Website (<http://www.pcf.ab.ca>): Visits during August totaled 1,473 from persons across Canada and 42 other countries. More materials are on the PCF website than ever before, with hot links to 300 other relevant organizations, including the CSPG.

**PROFESSIONAL DEVELOPMENT
CONSORTIUM** (Rick Young, Chairperson)

The Faculty of Management at the University of Calgary, in partnership with the largest technical professional societies and associations in Calgary, provided a series of two-hour seminars on business-related topics, designed to complement the continuing technical education provided by the various societies. These business and management seminars were originally requested by several oil company executives, who were concerned about the general lack of business and management knowledge evident in many of their technical staff. These compact seminars are especially valuable as they provide an introduction to these subjects, and also focus on key principles and essential elements. Each seminar is taught by one or more leading university and/or industry experts, and is priced very modestly so that all can afford to attend.

Associations represented in the consortium include: CSPG, APEGGA, CIM-Petroleum Society, NRC-Industrial Research Assistance Program, Canadian Information Processing Society, CWLS, CSEG, Canadian Society for Engineering Management, CAPL, Society of Petroleum Engineers – Canadian Section, Project Management Institute, and University of Calgary.

The Consortium advisory committee, under the leadership of Wayne Patton, Faculty of Management, U of C, has developed a series of two-hour, high quality business and management courses, designed to prepare attendees for international operations, self-managing teams, and contributing to the bottom line. Interest and attendance in the seminars has grown since they first started in 1995: 497 registrants attending the 14 seminars offered in the first half of 1997; 636 registrants attended 25 seminars in the first half of 1998.

The course program is carried out on a break-even financial basis. The technical societies contribute by offering free mail-outs of the program brochure once or twice per year. PanCanadian Petroleum has offered the free use of their training centre, and

Fluor-Daniel has provided free facilities for piloting the various seminars.

Seminar topics are arranged into series. The series in the current year included: Introduction to finance and control, Risk management, Project management, Information systems, Business ethics, and Business law. An International Business series is under development. For 1999, the same series and seminars will be offered once again.

APEGGA/UNIVERSITY OF CALGARY STUDENT LIAISON COMMITTEE (Timothy Bird, Chairperson)

This Committee of one participated in several meetings and planning sessions in advance of student mixers and career days. The chairman's job is largely to represent the Society and strengthen ties with our student members and to promote our technical Society's benefits to a group that may be overwhelmed by a large pseudo-judicial regulatory association. Student mixers and career days are a good way of welcoming new blood into our Society and allowing A.P.E.G.G.A. the advantage making connections with our Society at an entry level. We encourage our members to attend the student mixers and get involved in Society to the students.

PUBLICATIONS

PUBLICATION COMMITTEE AND PUBLICATION REVIEW BOARD (Lisa-Henri Kirkland, Chairperson)

No report available.

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

One paper was reviewed by the Committee in the past year and recommendations for improvement were provided to the authors.

PALAEONTOGRAPHICA CANADIANA, GAC/CSPG JOINT COMMITTEE ON PALEONTOLOGICAL MONOGRAPHS (Alexander D. McCracken, Chairperson (and

Editor); Brian R. Pratt, Vice-Chairperson; David H. McNeil, Secretary; Ross A. McLean, Business Manager; N. MacDonald, GAC Editor; Lisa-Henri Kirkland, CSPG Editor)

Published since the last annual report:

- December 5, 1997: *Palaeontographica Canadiana* No. 14. Silurian encrinurine trilobites from the central Canadian Arctic. Jonathan Adrain and Gregory D. Edgecombe. 107 pp., 34 pls.
- August 27, 1998: *Palaeontographica Canadiana* No. 15. Taxonomie des petits Foraminiferes du Carbonifere-Permien Inferieur du Bassin de Sverdrup, Arctique Canadien. Sylvie Pinard and Bernard Mamet. 251 pp., 43 pls.

Two manuscripts are with the authors for final revisions prior to submission for typesetting:

- *Palaeontographica Canadiana* No. 16: Late Ordovician to Early Silurian strophomenid brachiopods from Anticosti Island, Quebec. Keith Dewing and Glen Caldwell. 188 ms pp., 65 figures, 31 plates.
- *Palaeontographica Canadiana* No. 17: Valanginian Foraminifera and biostratigraphy of the McGuire Formation, Northwest Territories. Sharon P. Fowler and James Dixon. 144 ms pp., 15 figs., 7 pls.

Two manuscripts are in the external review stage:

- Silurian demosponges from the Mackenzie Mountains, District of Mackenzie, Northwest Territories, Canada. Keith Rigby and Brian Chatterton. 111 ms pp., 10 pls., 2 figs.
- Upper Devonian (Famennian) conodonts of the Palliser Formation and Wabamun Group, Alberta and British Columbia, Canada. David Johnston and Brian Chatterton. 262 ms pp., 35 pls., 19 tables, 13 figs.

Other potential manuscripts (not yet submitted for review):

- Late Ordovician and Early Silurian pentamerid brachiopods of Anticosti Island, Quebec. Jisuo Jin and Paul Copper. ca. 250 ms pp., 31 pls.
- Systematics and biostratigraphy of Lower Cambrian trilobites of western Laurentia. Lisa Bohach. ca. 250 ms pp., 41 pls.
- Sinemurian (Early Jurassic) ammonoid faunas of the Queen Charlotte Islands, British Columbia. Jozsef Palfy and Paul Smith.
- Silurian-Devonian land plants from Bathurst Island, Canadian Arctic Archipelago. Michele Kotyk and J. Basinger. 19 pls.