

**CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS
1999-2000 REPORT OF ACTIVITIES**

1999-2000 Executive Committee

**Ian Hutcheon, President
Brad Hayes, Vice President
Ted Watchuk, Finance Director
Scott Oldale, Assistant Finance Director
Paul McKay, Program Director
vacant, Assistant Program Director
Colin Yeo, Service Director
Indraneel Raychaudhuri, Assistant Service Director
Kathryn Scales, Past President**

PRESIDENT'S REPORT (Ian Hutcheon)

Those of you who know me personally might be surprised to hear me talking about a “mission statement”, but with the opportunity to report on CSPG activities in 2000, the mission – laid out in the mists of time - is worth reflecting upon. The purposes of the Society are to:

- Advance the science of geology, especially as it relates to petroleum, natural gas and other fossil fuels.
- Promote the technology of exploration for finding and producing these resources
- Foster the spirit of scientific research throughout its membership; to advance the professional development of our membership
- Promote awareness of the role of petroleum geologists, and develop a sense of pride, community and purpose for all Canadian Petroleum Geologists.

The 1996 Executive, lead by then President Gerry Reinson, laid out a strategic business plan to help foster that mission, and the resulting document has been revised by subsequent Executives. Kathryn Scales, current Past President, and I further modified that plan in the early part of this year – and identified issues that were unresolved. These included: The National Liaison Committee, membership in the Canadian Geoscience Council (CSPG withdrew some years ago from CGC, a group that puts earth science issues on the political agenda), hiring a convention

organizer, managing the operating costs of the *Reservoir*, getting the website running, inclusion of all committee finances and audits in our general operating account, and co-operation with CSEG. Progress on these issues has been mixed.

The “C” in CSPG stands for “Canadian”, not Calgary – but it is a challenge to reach outside to serve members in other regions. We have sown the seeds to begin a division on the East Coast – and maybe they’ll grow, but progress is slow. While we want to provide more services to CSPG members on the East Coast, we don’t want to endanger our good relationships with the Atlantic Geological Society. The Canadian Geoscience Council is an important organization and might be an effective “lobbyist” to “promote awareness of the role of petroleum geologists”. But CGC’s membership is quite different in scope and purpose than ours. A working relationship is not easy to define, but we are communicating with CGC and, if there is benefit to CSPG members, we will consider joining (re-joining) CGC.

At many meetings through the year the Executive debated the merits of hiring a person to assist in convention organization. After careful examination of the costs and the potential financial and less tangible benefits, we agreed that such a position had value to the CSPG. In September Lori Humphrey-Clements joined us as “Event Coordinator”. Initially, Lori’s role will focus on

the convention, but her job may expand to include other activities like the annual Honorary Address. On average, the CSPG depends on approximately \$100,000 in income from the annual convention. The budget for GeoCanada 2000 was nearly \$3,000,000 – and even “smaller” conferences have been million dollar operations. Many functions of the conference, such as exhibits, registration, transportation, publication, website, contracts for space, are “re-invented” every year. It makes sense that some savings can be realized by having continuity. Further, the operation of the convention is a huge volunteer effort that is intimidating to potential convention chairs. Lori’s job will be to help with tasks that are similar from year-to-year, allowing the chair and the volunteers to focus on delivering an excellent technical convention that will still generate revenue needed to provide the services our members expect. In the update for the 2001 conference, the chair, Reagan Palsgrove, made it clear Lori has already generated important cost savings and is a great asset to managing the convention.

The managing editor, Rory Hankel, has made a huge, successful, effort to control the costs of the *Reservoir*. Year-over-year as of November 2000, the new format *Reservoir* is in a break-even position. Our new editor, Marc Charest will, I’m sure, be vigilant about both costs and content. The initial goal of the new format for the *Reservoir* was to break even by using advertising, but this has never been realized in the past. The *Reservoir* provides an important service to our members. The previous version (without advertising) still had a cost and perhaps we need to accept that there is a worthwhile cost to providing the information our members need. This year the *Reservoir* has operated on a break-even basis.

On the technical front new publications continue to be produced. Special issues of the *Bulletin*, the last being the December 1999 “Lithoprobe” issue, continue. This is more cost effective for getting technical information to our members than are Memoirs, for example. A new special issue

on Devonian Carbonates is in the works and should appear in 2001. Further, the approximately 60 papers from the International Permian and Triassic conference held in Calgary in 1999 are in the final stages of editing for publication.

The CSPG website is now operating – after a long hiatus, and improves daily. Jaime Croft, our Communications Manager, now does all of the layout and updating for the site, saving considerable costs. The accounts for all committees are now included in our general accounts and the required annual audit is much more cost-effective.

Last summer the CSPG Executive started meeting with the Executive of CSEG. We identified a number of areas of common concern (operating costs, insurance, conventions, publications etc.), but the impetus seems to have faded from this initiative – more energy required on my part! The CSEG is a potential partner in many of our technical and outreach activities and we need to be open to the opportunities that can be generated through cooperation. Both organizations are financially healthy, with a large membership base. We have had numerous conferences with CSEG as a partner and this will no doubt continue. Understanding how to work better together can only be a benefit to both CSPG and CSEG.

Three of the four parts of the CSPG vision statement include science, application of technology and research. But where are these in CSPG operations? The very successful GeoCanada 2000 conference that brought together CSPG, CSEG, GAC, MAC, CWLS and CGU was a huge technical and scientific opportunity for our members. Technical conventions happen, with a huge volunteer effort, every year, but publication opportunities are brought to the CSPG by the chance that members will take the initiative. To continue to provide excellent technical and scientific data to our members is a challenge. “Research” is almost a vanishing word in the vocabulary of petroleum exploration and production companies. The research committee has

been re-formed and will soon start to develop a presence with our members. What can this committee do? Would your company like to have a hard-working person, highly trained, focused on a project that you can not spare the time to do? For \$5,000 per year the federal government will provide a scholarship to a Ph.D. or M.Sc. student that requires they work on a project with industry and spend a minimum of 20% of their time at the company. Further, if your company has a project suitable for university-based research, the federal government will pay up to half the costs. The research committee will broker such opportunities, matching students, university faculty and companies. Perhaps more important to our technical mission is the role the research committee could play in generating ideas for new publications and themes for convention sessions, as well as topics for the technical luncheons. I look forward to their input and ideas.

After many bleak years, it looks like the pendulum may have swung the other way – oil has been consistently over \$30 this year and gas prices are higher than ever before. The industry will never return to the free-spending ways of the 1970's, but hopefully our members will get to benefit now from some of the tough years they have faced. I also hope that the CSPG will benefit. Not necessarily financially, but from a renewed commitment from our members, both individual and corporate, to help the CSPG fulfill the mandate outlined in our vision: talented professionals, with strong technical skills, accessing the best in science to find and produce energy vital to our economy. To that end the Executive, largely through the Services committees, has revamped the basis for the Corporate Members program. Monty Ravlich has joined the Executive as a non-voting member with the responsibility of building up the strength of our corporate members program. In the future, we hope this will translate into a better two-way communication between CSPG and oil and gas companies, improving our services to members, both individual and corporate.

It has been an exciting two years. The CSPG office staff has made a difficult job much easier. A host of volunteers have made every CSPG event I've attended, social or technical, a rewarding experience. The strength of CSPG is in the volunteers that keep it going. Without those volunteers CSPG will fade away. For those of you who have worked long and hard this year – and you know who you are – my thanks. Without you CSPG would be AAPG, only smaller. With you we are a different, and I think much better, organization. The Executive has been a pleasure to work with; they make a big commitment and I am constantly reminded by their dedication that CSPG is about commitment to an important job well done. I am grateful that all of you provided me with the opportunity to spend two very fulfilling years, as VP and President. I'm looking forward to one more year as Past President. Thank you for your confidence and your support.

TREASURER'S REPORT (Ted Watchuk, Finance Director)

This is for those of you who just can't wait for the yearly audit or who would like a simple financial presentation. I shall summarize the CSPG yearly financial affairs in this report. For a more complete report on our financial affairs please read the Audited Financial Statements provided. For most geologists, knowing that our financial situation is healthy will be adequate. Our financial year runs September 1 to August 31 of every year. The operations of the Society include the income and expenses from all operations including Programs, Conventions, Services, Publications, Operations, Executive and Donations.

The Society ended the year on August 31 with an operating deficit (revenue minus expenses) of \$8,653. The following items contributed to our deficit: the *Reservoir* deficit (\$22,200), larger December *Bulletin* (\$18,234), lower education revenue (\$35,825) and lower publication revenue (\$27,919).

Our income from general operations was \$1,795,647 while total expenses were

\$1,804,300. The highlights include convention net income of \$148,078, membership revenue of \$252,391, technical lunches net of \$38,680, *Bulletin* net costs of \$99,172, *Reservoir* net costs of \$22,200 and website net cost of \$7,588. Our present net assets are \$928,898, which include long term society investments.

Programs

Technical programs consist of the Convention, Education, Technical Luncheons, Technical Divisions and field trips. We had revenues of \$287,160 and expenses of \$261,724 for net of \$25,386. The major revenue generators were the Convention and the Luncheons.

Services

Services consist of membership, awards, social activities and our outreach programs. Services generated \$409,540 in revenue, mainly from membership dues, offset by expenditures of \$185,207.

Publications

Expenses decreased for the *Reservoir* but revenue continues to be less than required. The result was a loss of \$22,220. The *Bulletin* had a net cost of \$99,172.

Our inventory includes publications and merchandise. Publication revenue was down to \$80,021 mainly because of poor sales at the convention. Inventory was written down by \$1,983.37 and our merchandise by \$303.67.

Operations

The Society's operations consist of office expenses, staffing, finance and banking, amortization and administration. Operations generated \$37,094 in income, mainly from investments and incurred expenses of \$298,547, principally on salaries, rent and amortization.

Conclusion

The Society's financial situation is healthy, even with a net loss of \$8,653. This is due to constant monitoring of expenditures and revenue by the Executive while maintaining a high level of service to its members.

As my tenure on the CSPG Executive as Finance Director draws to a close, I am confident that Scott Oldale will carry on as an excellent finance director with the invaluable support of our Office Manager, Tim Howard, and the office staff. It has been a stimulating and rewarding experience to serve on the Society's Executive. For any of you considering running for office in the future, for the CSPG, I would highly recommend it. The experience has given me the opportunity to better understand the complex operation of the Society and be involved in great discussions, which always forced me to stretch my synapses beyond their zone of comfort. My conclusion of the past two years is that this is a very strong society, because of its amazing strength of its volunteers and the competency of the office staff.

Thank you for the opportunity to have served.

PROGRAMS

TECHNICAL LUNCHEON COMMITTEE

(Kari Camden, Jim Gardner, Colleen Sherry, Virginia Trapnell, Bob Turner, Co-Chairpersons)

The membership of the Technical Luncheon Committee changed substantially during the course of the 1999/2000 season. In November 1999 both Patty Cucman and Al Schink resigned from the committee being replaced respectively by Bob Turner and Jim Gardner. In the Spring of 2000 Colleen Sherry resigned and was replaced by Kari Camden. Virginia Trapnell has remained in place and provided much needed continuity. The new committee members would like to thank both the exiting committee members and Virginia for their invaluable advice and guidance during the transition period.

The Technical Luncheon Committee hosted 18 talks during the 1999/2000 season with topics split fairly evenly between those focused in Western Canada and those of international or general interest. The presentations and attendance are detailed below. Following feedback from the membership during the previous year concerning preferred locations for the lunch meetings, all but one of this season's meetings were held at the Westin Hotel. The sole exception was John Hopkin's talk on the Pekisko Formation that was presented at the Convention Centre.

We continued to use APEX to provide professional audio visual services and this approach has maintained its record of providing good value with few technical glitches occurring through the year.

A Technical Luncheon Survey was conducted on June 29th, 2000 by table drop. The same survey was posted on the CSPG web site for ten weeks. CSPG members were asked for feedback on the content and presentation of the Technical Luncheon Program throughout the previous year. A grand total of two responses were received, leading the Technical Luncheon Committee to believe that the membership is fully

supportive of the overall program and the choice of speakers and topics.

The committee would like to acknowledge our speakers for the 1999/2000 season who provided us with a diverse and high quality technical program throughout the year. We would also like to extend our appreciation to our corporate sponsors, the CSPG office staff and CSPG member volunteers. The Technical Luncheon Program would not be possible without your active support.

September 7, 1999

Zaitlin et al.

"High Resolution Sequence Stratigraphy in Low to Moderate Accommodation Settings, Lower Cretaceous Basal Quartz and Glauconite Formations of Southern Alberta"

Attendance: 456

September 23, 1999

Alan Morgan

"The Heimay Eruption, Iceland: A 25 Year Retrospective"

Attendance: 482

October 12, 1999

John Hopkins

"Paleohydrogeology and Reservoir Development in the Pekisko Formation"

Attendance: 567

October 28, 1999

Brad Hayes

"Middle Cretaceous reservoirs at Kaybob: Eight

(or more?) Distinct Exploration Plays"

Attendance: 719

November 4, 1999

Kevin Bohacs

"Lake-Basin Type, Source Potential and Hydrocarbon Character: An Integrated Sequence-Stratigraphic-Geochemical Framework"

Attendance: 481

November 16, 1999

Ray Thomasson

"Big Gas in the Rockies"

Attendance: 647

December 7, 1999

Andrew Newsome
 "Foothills: The Future for Exploration"
 Attendance: 919

January 13, 2000

Kate Moran
 "The Ocean Drilling Program: A Leader in Gas Hydrate Research"
 Attendance: 548

January 25, 2000

Roger Walker
 "Sedimentary Processes and Sediment Bypassing in Deep Sea Fan Settings-Should We Be Exploring in Even Deeper Water Settings"
 Attendance: 708

February 8, 2000

Steven Bachu
 "Climate Change and Carbon Dioxide Sequestration in Sedimentary Basins: A New Challenge For Petroleum Geologists"
 Attendance: 669

February 22, 2000

Knut Bjorlykke
 "Clastic Diagenesis and Porosity Prediction in Sedimentary Basins"
 Attendance: 691

March 7, 2000

Robert Balling
 "A Climate of Doubt About Global Warming"
 Attendance: 730

March 28, 2000

Bruce Hart
 "The Geologist's Role in Seismic Attribution Studies"
 Attendance: 655

April 4, 2000

Paul MacKay
 "The Structural Style of the Coleman Gas Field: New Potential in a Mature Gas Field in the Southern Alberta Foothills"
 Attendance: 704

April 24, 2000

Murray Rodgers et al.
 "A WCSB Post-Mortem: Drilling and Play Performance from 1995-1998"
 Attendance: 668

May 11, 2000

Mark Cooper
 "Oil and Gas Fields Associated with Inverted Extensional Faults: A Global Review"
 Attendance: 656

May 24, 2000

Marianne Molgat & Bill Arnott
 "Sedimentology and Reservoir Distribution in the Upper Jurassic and Swift Formation, Southeastern Alberta"
 Attendance: 623

June 29, 2000

Federico Krause & Selim Sayegh
 "Cool/Cold Water Carbonates, Mud-Mounds and Methane and Clathrate Hydrates: Fuelling the New Millennium"
 Attendance: 513

EDUCATION COMMITTEE (Brent Wignall, Chairperson)

The Continuing Education Committee ran a smaller than normal roster of courses this year. This was in part due to the extensive lineup of courses arranged by Tim de Freitas for GEO2000, and partly due to unfortunate events such as the untimely passing of Bob Creed, key organizer of the WCSB course. Our focus, therefore, is upon building a larger roster of courses for 2001, and incorporating the CSPG 2001 convention short course lineup with our own. Future course topics will include: Deep water clastics, Glauconite channel and barrier trends, carbonate cuttings description, carbonate sequence stratigraphy, 3-D seismic interpretation for geologists.

The Con-Ed Committee is composed of : Suzan Moore, Gordon McLean, Mark Mallamo, Natalie Sweet, Jason Montpetit, Tim de Freitas, and myself. Both Suzan and Tim have served stints as chair of the

Committee, and Tim was the chair for the GEO2000 short course component this year.

TECHNICAL DIVISIONS

BASIN ANALYSIS DIVISION

No report available. Committee inactive.

STRUCTURAL GEOLOGY DIVISION (Mazhar Qayyum, Chairperson)

The Structure Division enjoyed another year of active participation from members. There were numerous technical presentations that were well attended and two field trips were run. The monthly noon-hour and evening talks and the two Fall 2000 field trips are listed below. The downtown noon-hour industry talks were organized by Janice LeDrew (Conoco) and the more informal, less industry-oriented evening sessions at the University of Calgary were organized by Mazhar Qayyum. Janice and Mazhar began taking over organization of the Structure Division in 2000 and will assume all responsibilities in 2001. I began helping Normand Begin in the Fall of 1997 and assumed responsibilities for the Division in 1998. I've enjoyed organizing the group and meeting a lot of people these past few years and I wish Janice and Mazhar all the best as they take over the organization and leadership of the Structure Division.

CSPG Structure Division Lunch-hour talks presented in 2000:

Conoco is thanked for providing the overhead and slide projectors, Norwest Labs is thanked for providing abundant pastries and HEF Petrophysical is thanked for providing coffee and juices. Talks were held in the small +15 Auditorium, 540 5th Ave SW.

January 26, 2000

Peter Fermor, Shell Canada

Thrust Surface Shapes in the Alberta "Foothills/Front Ranges from 2D and 3D Seismic: Revelations of Surprising Smoothness and their Implications for Thrust Dynamics"

February 10, 2000

Deborah Spratt & Graziella Kirtland Grech
"Foothills Research Project, University of Calgary Numerical Seismic Modeling and Imaging of Complex Fold-Thrust Structures"

March 27, 2000

Dave H. Drover, University of Calgary
"Lateral ramps and leading edge folds – the along-strike variation of the Quirk Creek Structure, southwestern Alberta, Canada"

April 10, 2000

Pat O'Connell, Conoco Canada Limited
"Kinematics of the Eastern Flank of the Beartooth Mountains, Wyoming and Montana"

CSPG Structure Division Evening talks presented in 2000:

The University of Calgary and Professor Deborah Spratt are thanked for the use of our meeting room and projectors.

January

Arie J. van der Velden, Lithoprobe Seismic Processing Facility, University of Calgary
"Structure and tectonic development of the Rocky Mountain Trench, the Purcell Mountains and the Lewis Thrust Sheet between 49N and 51N"

February

Seventh Annual Structure Group Evening Slide Show

March

Philip S. Simony, Department of Geology and Geophysics, University of Calgary
"The Purcell Thrust, the Rocky mountain Trench Cambrian Highs and a Western Margin for the Western Canada Sedimentary Basin"

May

Gerald M. Ross, Geological Survey of Canada
"Facies control of regional disharmonic structural evolution, Western Rocky Mountains, British Columbia"

CSPG Structure Division Field Trips run during 2000:

September 15-18

Rocky Mountain Transect

Dennis Johnston (Petro-Canada), Jean Pelletier (Anderson Exploration) and Margo McMechan (Geological Survey of Canada, Calgary).

A four day examination and analysis of the overall architecture of the Rockies by biking, hiking and paddling across the Western Main Ranges, Main Ranges and Front Ranges, from Radium, B.C. to the foothills west of Longview, Alberta.

October 13-14

Structure and hydrocarbon occurrence – Crowsnest Pass and Waterton

Technical Leaders: Kirk Osadetz and Glen Stockmal, Geological Survey of Canada, Calgary.

Logistics: Janice LeDrew, Kirk Osadetz and Dennis Johnston.

SEDIMENTOLOGY DIVISION (John-Paul Zonneveld, Chairperson)

No report available.

ENVIRONMENTAL GEOLOGY DIVISION (Ed Mathison, Chairperson)

Following a period of inactivity the Environmental Geology Division has come back to life. The environmental division was not dead merely dormant. Committee members of the Environmental Geology division decided, at the beginning of the last season, to expand the focus of the division from covering strictly environmental geology issues to covering environmental issues which impact petroleum geologists. This shift in focus also reflects the background of committee members, none of who work in the environmental industry. Expanding focus of the division allows for a greater range of topics (relevant to C.S.P.G. members) to be addressed. This shift in focus was reflected in the wide range of topics covered by speakers at division talks. Three talks, all of which were well attended, were presented at environmental division meetings.

November 99

Richard Kline (Mercury Electric Corporation)
“Power Generation: What are the options? Microturbines a new way of generating power.”

March 2000

Egide Nzojibwama (Technosol International Ltd.)

“Chloride migration in the Cold Lake Area, Alberta Canada”

June 2000

Walter Yonquist (consultant)

“Consequences of reaching peak global oil production”

HYDROGEOLOGY DIVISION (Stefan Bachu, Chairperson)

The Hydrogeology Division continued its tradition of being one of the most active technical divisions of CSPG by organizing monthly lunch-hour talks and annual field trips. In the past year the division presented 6 lunch-hour talks, the high rate of attendance at these being a testimony to their popularity and educational value. The lunch-hour talks continued to be of high quality and diversity (see list). The past year’s talks addressed subjects of interest to the petroleum industry, as well as to the mining and environmental sectors.

The division continued its policy of organizing and running two yearly field trips.

- The fall field trip, “Diagenesis and Fluid Flow” run on September 11, 1999, for 40 registrants, was led by Dr. Ron Spencer and Dr. Ian Hutcheon from the University of Calgary, Department of Geology and Geophysics. Special thanks to the trip leaders and to the field trip coordinator, Dr. Dan Barson of Rakhit Petroleum Consulting Ltd.
- A 5-day long spring field trip “Hydrogeology of Heavy Oil and Tar Sand Deposits: Water Flow and Supply, Migration and Degradation” was offered in

conjunction with GeoCanada 2000 convention. It was led by Dr. Fran Hein of the Alberta Geological Survey, Alberta Energy and Utilities Board, Dr. Stephen Grasby of the Geological Survey of Canada – Calgary, Dr. Dan Barson of Rakhit Petroleum Consulting Ltd., Dr. Martin Fowler of the Geological Survey of Canada – Calgary, Dr. Cindy Riediger of the University of Calgary, Dept of Geology and Geophysics and Rick Bartlett of Hydro-Fax Resources. The field trip took the participants from hydrogeological features in the Rocky Mountains, all the way to the Athabasca area. The trip was unexpectedly successful, particularly given its duration. Special thanks to the trip leaders and to the trip coordinators Dr. Dan Barson of Rakhit Petroleum Consulting Ltd., and Rick Bartlett of Hydrofax Ltd.

In addition, the Hydrogeology Division organized a special session at GeoCanada 2000, chaired by Dr. Stefan Bachu and Phil Esslinger, on: "Hydrogeology of Heavy Oil and Tar Sand Deposits: Water Flow and Supply, Migration and Degradation". Six papers dealing with water and hydrogeological issues relating to oil sands development were presented. The session proved to be of great interest, as was witnessed by the public overflow during the talks.

Mr. Phil Esslinger of Rakhit Petroleum Consulting Ltd. chaired the Hydrogeology Division during 1999/2000. Many thanks to Phil for a job well done !

The division Executive Committee was comprised of : Phil Esslinger – Rakhit Petroleum Consulting Ltd. (Chairperson), Steve Burnie – Mobil Oil Canada Ltd. (past Chairperson), Kent Wilkinson – CanOxy (Treasurer), Dr. Stefan Bachu – Alberta Geological Survey, AEUB, Dr. Eric Dahlberg – ECD Geological, and Dr. Stephen Grasby – Geological Survey of Canada. Dr. Dahlberg withdrew from the Committee at the end of the term, and Phil Esslinger stepped down as chairman.

I would like to thank the members of the Executive Committee for their work and dedication that ensured a very successful year. I would also like to extend thanks in the name of the Hydrogeology Executive Committee, Division and CSPG to everyone who attended the Divisions talks and field trips. Special thanks are due to our sponsors, PanCanadian Petroleum for allowing the Division to use the PanCanadian Theatre for the lunch-hour talks, and for supplying coffee, and to Norwest Laboratories for the delicious pastries provided at the talks. Thanks are due also to Rakhit Petroleum Consulting Ltd. for providing the avenue for the monthly meetings of the Division Executive Committee.

I look forward to another successful and challenging year in 2000/2001.

The following is a list of the titles and authors of all the talks presented in the 1999/2000 year:

September 16, 1999

Dr. Stefan Bachu
"Carbon Dioxide Disposal in Deep Saline Aquifers in the Alberta Basin"
Dr. Stefan Bachu

October 21, 1999

Karsten Michael
"Fluid Flow in the Vicinity of the Rocky Mountains, West-Central Alberta"

November 18, 1999

Ben J. Rostron
"Fingerprinting formation-waters using stable isotopes: applications for exploration and production"

December 16, 1999

Dan Barson and Troy Myers
"A New Look at Tilted Oil/Water Contacts in the Williston Basin"

April 20, 2000

Kaush Rakhit
"Hydrogeologic Architecture Of Sedimentary Basins, Applications For Exploration"

May 18, 2000

Human Performance Laboratory

“Dowsing: A sensory system for the perception of underground structures”

GEOMATHEMATICS AND COMPUTER

(David Garner, Chairperson)

No report available.

INTERNATIONAL (Geoff Say, Chairperson)

As the current chair of the International Division, I would like to thank Joseph Eng and David Dolph for organizing and hosting a series of successful luncheon talks for the 1999 to 2000 season. The first talk of the season was given by Dr. John Harper on: “Libya: renewal of an old Frontier” in September followed by “Suggested Geoscience Techniques to Maximize Asset Value by Ed Bell in October, “The South Caspian Basin of Azerbaijan: The World’s Oldest and Youngest Petroleum Basin” in November by Andy Skuce, “Review of the Australian Petroleum Industry” in December by Frank Maio, “The Petroleum Geology of the Central Sumatra Basin, Indonesia” in January 00 by Tako Koning, “Reservoir Characterization: Building and Verifying Integrated Earth Models in the Copper Basin, S. Australia” in February by Sam Johnston, “Potential Mesozoic Petroleum Province Offshore BC, Alaska and Canada” in March by Henry Lyatsky, “The Petroleum Geology and Exploration Potential of Tunisia and Surrounding Areas” in May by Speaker Sam Johnston and last but not least, the final talk of the season in June by Speaker Tako Koning was on “Angola: An Overview of Angola’s Industry Activity and Geology of Producing Field (Pinda Carbonate and new Discoveries (Tertiary Turbidities)”. I would like to give a special thanks here to Tako Koning for his ongoing support of and keen interest in the International Division’s activities.

RESERVOIR/DEVELOPMENT GEOLOGY

(Darren Steffes, Chairperson)

No report available.

PALAEONTOLOGY DIVISION (Charles Henderson, Chairperson)

No report available.

SERVICES

MEMBERSHIP COMMITTEE (Ross Pitman, 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:

	2000	1999	1998	1997	1996
Active	2660	2676	2690	2715	2671
Associate	252	237	230	105	195
Student	103	98	112	212	118
Emeritus	165	163	113	137	144
Corporate	52	55	65	56	32
Honorary	45	45	43	43	43
Total	3277	3274	3273	3268	3203
Subscribers	259	256	288	301	326

Total membership levels remained flat again in 1999. Increased industry activity did not translate into an increase in active memberships. Associate membership increased by 15 and this may be the source of new growth in memberships in the future. Student memberships have stabilized at about 100. Corporate memberships were down by three and the new Corporate Relations Chairperson will focus on increasing this number.

The Membership Committee strategic plan was presented and accepted by the Executive in late 1999. Strategies include understanding the demographics of the current membership, promoting the benefits of membership, estimating the population of petroleum geologists eligible for membership and forming focus groups to understand what our members expect from the Society. Unfortunately, the plan was not executed this year due to manpower constraints. The focus of this committee in the next year will be to update the plan quickly and execute promptly.

VOLUNTEER COORDINATOR (Blythe Lowe, Volunteer Coordinator)

My role in the CSPG over the last couple of years has been to provide to the membership the service of coordinating

volunteer opportunities amongst the numerous CSPG committees and handling requests to volunteer by the membership. Volunteer names have been forwarded to the various Annual Convention committees, the On-line committee, the Continuing Education committee, the *Reservoir* committee, and the Technical Luncheon committee, to name just a few! The majority of potential volunteers are relative newcomers to the industry. They are anxious to 'get involved'! I am always on the lookout for new volunteers, and opportunities within the Society, to satisfy them!

HONORARY ADDRESS (Elizabeth O'Neill and Barb Rypien, Co-Chairpersons; Tim Bird Rob Langill, Steve Haysom, Denis Hodder, Byron Cooper, Sherry Samborski, Jay Williams, Laraine Kish and Doris Chin Gamba)

The work of the Honorary Address Committee straddles the CSPG fiscal year, and so we are actually dealing with two presentations during this time period. The 1998 Honorary Address took place at the Jubilee Auditorium on October 6th, 1998. The evening was entitled **DESTINATION MARS** and featured two speakers involved in the study and exploration of this planet. Michael Carr of the United States Geological Survey presented Mars: Aquifers, Oceans and the Prospects for Life, while Matthew Golombek, Project Scientist for the Mars Pathfinder Mission told us all about the mission, including the scientific results that have been determined to date. The address was sponsored jointly by both the CSPG and the CSEG, with the organizing Committee comprising representatives of both organizations. There were 1676 people in attendance, approximately one third of these being children.

The rest of the year has been spent planning the 1999 Honorary Address for November 3, 1999. Again a joint presentation with the CSEG, 99's speakers were John Accorn "the Nature Nut" and Dr. Phil Currie from the Royal Tyrrell Museum. The title of the 1999 Address was "**Night of the Flying Dinosaurs**" and explored the

relationship between modern day birds and dinosaurs. Besides the evening talk, the Committee worked hard to put together the "**Afternoon of the Flying Dinosaurs**" which was a totally free presentation exclusively for school children. At no charge to the schools we bused over 2700 children in Grades 3 through 8 to the Jubilee Auditorium to hear our two speakers. This addition to the Honorary Address was overwhelmingly well received by the Calgary schools and unfortunately we could not accommodate all the requests for seats that were received. Our Committee mandate is to bring science to the public at large and we were very pleased to continue to do that through both our traditional address and our new afternoon presentation.

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 more volunteers to share duties in taking photographs at the luncheon meetings. If interested, please phone Vic Panei at 213-7848.

ARCHIVES AND HISTORY COMMITTEE (Clinton Tippett, Chairperson)

The committee was relatively inactive throughout most of the year. In the late spring it was proposed that the Society undertake several projects over the next few years leading up to the commemoration of the Society's 75th Anniversary in 2002. A related budget item was recently approved which includes funding for an oral history project. In this initiative a broad selection of individuals who have been involved in the Society will be interviewed. The transcripts of these discussions and related videos, where applicable, will provide material for one or several other history-related initiatives to be undertaken closer to the anniversary date. Plans for the near future include the design of a logo and the development of a theme. Submission of ideas for both are being encouraged.

Assisting the Chairperson in these endeavors to date have been Rory Hankel and Kathy Scales. Other members of the Society are welcome to volunteer.

GROUP INSURANCE (Robin Mann, Chairperson)

Over the past year the Insurance Committee together with Tim Howard of the CSPG Office undertook a review of the Society's Insurance needs. A thorough review was undertaken of the various plans and policies currently in place for the membership at large and for the administration staff in the office. Three (3) groups were asked to submit proposals for providing insurance to the Society and these were reviewed and evaluated as to their merit and the service that would be supplied to the membership.

It was decided that Ogden Financial Planners (for Life, Health, Dental and Long Term Disability Insurance and Financial Planning) and Financial Management Ltd. (for home and auto insurance) were the best to continue to supply the CSPG with all of its insurance needs. A new three-year agreement was proposed and agreed to in principal on behalf of the Society.

If any one has any questions with respect to Life or Disability Insurance or Financial Planning please contact Brian Ogden at 228-0901. For home or auto insurance please call Chris Fredrick at 255-2876. For other general questions with respect to the CSPG Insurance, please contact Robin Mann at 232-6206.

MANPOWER SURVEY (Keith Deutsch, Chairperson)

The Manpower Survey Committee was inactive in the last year. In the next year, this committee will research and provide key information to the Membership Committee, estimating the number of practising petroleum geologists in Canada, the number of new graduates who found employment in the industry and the number of students registered in geology in Canadian universities. This information is crucial to

various committees for strategic planning purposes.

AWARDS

PRESIDENT'S AWARD (Ian Hutcheon, President)

The President's Award is presented to individuals who have contributed to the Society through outstanding service. This year the Award is presented jointly to Ian McIlreath, Ph.D., P.Geol. and Ian W. Moffat, Ph.D., P.Geol., for their efforts in successfully mounting GeoCanada 2000, this year's joint convention which was undoubtedly the largest all-Canadian Geoscience meeting ever. There were over 200 volunteers and numerous committees. Ian McIlreath was the General Chair of a meeting that brought together for the first time the CSPG with the Geological Association of Canada, the Mineralogical Association of Canada, the Canadian Society of Exploration Geophysicists, the Canadian Geophysical Union, and the Canadian Well Logging Society. There were more than 4000 attendees including delegates, exhibitors and sponsors. The total budget for this meeting approached \$3 million, making it a huge organizational challenge. Ian McIlreath did a masterful job of blending the different backgrounds, interests and requirements of six different technical societies.

Dr. Ian A. McIlreath received his BSc and MSc in Engineering Geology from Queen's University, and subsequently his PhD in Geology from the University of Calgary. He is currently Chief Geologist at PanCanadian Petroleum Limited. A former Director and later President of the Canadian Society of Petroleum Geologists, he is also a Past-President of the Geological Association of Canada and the Canadian Geological Foundation. Dr. McIlreath is a professional geologist registered with APEGGA. During his 26 years in the petroleum industry he has worked in most of Canada's Phanerozoic basins as well as internationally, primarily in Asia. He has given numerous professional talks and published on the sedimentology,

stratigraphy and petroleum potential of many lower and middle Paleozoic mostly carbonate units outcropping and in the subsurface of Alberta, British Columbia and the Northwest Territories.

Ian Moffat was the co-chair representing CSPG on the organizing committee. In this position he had an enormous responsibility, not only to represent the interests of CSPG at this meeting, but also to help ensure that this risky venture was at least a break-even proposition.

Dr. Moffat holds a B.Sc. in geology and a MSc. in structural geology received from the University of Calgary and a Ph.D. in Tectonics and Organic Geochemistry from the University of British Columbia. He is a registered Professional Geologist with 23 years of International and Domestic Exploration and Production experience and has published extensively on a wide range of geological topics. Dr. Moffat has been employed by Talisman Energy since 1993. He presently is performing the role of Director of Exploration for North Africa and the Middle East and is located at Talismans Head Office in Calgary.

Between them, the two Ian's managed to produce what has to have been one of the most seamless technical meetings the society has run in recent year. In addition, they and their committee put on a spectacular social program and massive technical program with over 1100 abstracts, and still managed to make a profit for all societies involved.

HONORARY MEMBERSHIP COMMITTEE (N.J. McMillan, Chairperson)

Honorary Membership was awarded to Dr. Eric Mountjoy.

LINK AWARD COMMITTEE (Rick Steedman, Chairperson; Vaughan Allan, Doug Flaig, Bob Leatherbarrow, Chris Link, Phil Nantais, Claude Ribordy, Doug Stewart)

Chris Link resigned from the committee in 2000; the committee wishes to thank her for her service. Both Chris and Vaughan Allan have been nominated for volunteer awards.

The Link Award was established in 1958 to encourage a high standard of presentation for oral papers given at the Society's Luncheon meetings.

In the year ending in August, 31,2000, nine of eighteen papers were eligible for the award. The Technical Luncheon committee has maintained a commendable standard for the talks, reflected in the closeness of the leading contenders' scores.

The winner of the 2000 Link Award is Andy Newson, for his paper entitled "Overview of Alberta, BC, and Yukon Foothills: What has been discovered, How and What Are The Risks?", presented December 7th, 1999.

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

1999 John B. Webb Memorial Trophy :

This trophy is presented to the best student presentation at the Western InterUniversity Geological Conference which was hosted at the University of Calgary Jan 14-16 /00. The winner was Heung-ngai Chan from the University of Victoria for his talk titled The Northland Ophiolite, New Zealand.

1999 CSPG Trophy:

This trophy is presented to the best student presentation at the Atlantic University Geological Conference which was hosted at Dalhousie University on Oct 20-22 /00. The winner is not available at this time.

MEDAL OF MERIT (Jim Barclay - Chairperson, Adam Hedinger, Ross Mclean, Kevin Root, Rob Scammell)

The Canadian Society of Petroleum Geologists Medal of Merit is awarded annually for the best paper related to Canadian petroleum geology published during the previous publication year, in this case for 1999 papers.

The paper chosen this year is entitled "Silurian System of the Canadian Arctic Archipelago" and was written by Tim de

Freitas, Hans P. Trettin, Owen A. Dixon and Mark Mallamo (*Bulletin of Canadian Petroleum Geology*, volume 47, number 2, p. 136-193). This paper provides a vast synthesis of the Silurian system throughout the Arctic Islands encompassing a study area of 700,000 sq. km. The paper documents the evolution of a shelf succession from non-rimmed carbonates to reef-rimmed carbonates to syn-orogenic clastics, the evolution of the Hazen basal region from pelagic chert-mud deposits to rapid flysch influx, and the history of the accreted volcano-sedimentary Pearya terrane. The paper distinguishes itself with excellent diagrams, volume of new data, and coverage of many topics and disciplines, such as biostratigraphy, radiogenic dating, sedimentology, sequence stratigraphy, seismic analysis and structural geology. The paper represents a summation of decades of work and provides a fundamental foundation for future Arctic research and exploration in this region.

Tim de Freitas completed his B.Sc. and M.Sc. degrees at the University of Toronto and University of Western Ontario. He then completed his Ph.D. at the University of Ottawa in 1991 under the supervision of fellow author, Dr. Owen Dixon. His doctoral thesis was a regional geological study of the Canadian Arctic Islands and formed the foundation for his future work in the Arctic. In 1992, he completed an NSERC Post-Doctoral Fellowship and then went on to work as a regional geoscientist for the Arctic Islands section at the Geological Survey of Canada in Calgary. There, he contributed to numerous Arctic regional mapping projects and published more than 40 papers dealing with structural geology, stratigraphy, sedimentology, and palaeontology. Since his government Arctic work, Tim has embraced the challenges of working in the petroleum industry and moved to Imperial Oil Resources, and then to Canadian Occidental Petroleum Ltd. where he works as a Senior Exploration/Production Geologist in Calgary. Tim is also Editor of the CSPG's *Bulletin of Canadian Petroleum Geology*.

For more than 30 years, Hans Trettin has studied the geology of many parts of Canada with much of his pioneering field geological work done in Canada's Arctic regions while with the Geological Survey of Canada. He has produced many maps and over 100 comprehensive reports on the regional geology and economic potential of areas that encompass an area larger than several European countries. These reports and accompanying maps have become standard geoscience scientific references. In particular, Hans Trettin co-ordinated and contributed to the Decade of North American Geology volume on Greenland and the Arctic Islands. Hans has obtained many awards for his work including the CSPG R.J.W. Douglas Medal and the Link Award.

Owen Dixon obtained his B.A. and M.A. from the University of Saskatchewan, then went to the Glasgow University in Scotland where he completed his Ph.D. and worked as an Assistant Lecturer for 2 years. In 1967, he returned to Canada and began teaching and research at the University of Ottawa. Owen has been involved in many fields of research, but is best known for his work on Lower Paleozoic stratigraphy, sedimentology and palaeontology of the Canadian Arctic. He has published many articles in a variety of Canadian and international scientific journals. He can be proud of supervising many graduate students who have gone on to productive careers in research, teaching, and industry, including James Dixon, Brian Jones, Guy Narbonne, Jeff Packard, Ian Muir, Tim de Freitas, Terry Sami, James Savelle, Gary Graf and Natalie Sweet. He continues to do research on Lower Paleozoic fossils during his current status of Professor Emeritus, still at the University of Ottawa.

Mark Mallamo received his B.Sc. Honours in Geology at the University of Toronto in 1986. He received his M.Sc. at the University of Western Ontario in 1989, where he studied the Ordovician - Silurian carbonate sedimentology of the Arctic Islands, under the supervision of Alfred Lenz. Mark continued his interest in carbonate rocks and paleontology at McGill

University, where he received his Ph.D. in 1996 on the Upper Devonian of Western Canada, under the supervision of Colin Stearn. Mark has worked in Calgary in the petroleum industry since 1994, and is currently employed as a Senior Geologist at Burlington Resources Canada Energy Ltd, on their Deep Devonian Exploration Team.

R.J.W. DOUGLAS MEDAL (Andrew C. Newsome, Chairperson)

The CSPG Douglas Award Committee has unanimously selected Dr. Ian Knight as the recipient of the 2000 award. Ian is a very worth recipient of this award and it recognizes his contribution to structural and sedimentary geology in Canada.

STANLEY SLIPPER GOLD MEDAL (John Hogg, Chairperson, Ed Wright, Peter Harrington, Peter Hay)

The Stanley Slipper Gold Medal is the CSPG's most prestigious award. The award is named for Mr. Stanley E. Slipper, 1890-1982, who was the Alberta Society of Petroleum Geologists first President and a pioneer of early exploration efforts in Alberta.

The medal is presented annually by the CSPG outstanding contributions to oil and gas exploration in Canada. The medal was established in 1989 and was designed by Calgary sculptor, Bob Stowell.

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

The 2000 winner of the medal was Mr. Clayton Riddell, CSPG Past President. Clay Riddell has been actively involved in the oil and gas industry for the past forty years. Upon graduation from the University of Manitoba, Clay began his career a geologist with Chevron in 1959. Ten years later, he left Chevron to start his own business, C.H.

Riddell Geological Consultants Ltd., and in 1971, he formed Paramount Oil & Gas Ltd.

Clay, through Paramount, opened up natural gas exploration in northeastern Alberta. While industry was focused on the discovery of oil in Nisku pinnacles in west central Alberta, Clay went hunting in unexplored portions of northeastern Alberta and was the first to recognized the potential of these Devonian and Cretaceous reservoirs.

The same vision and entrepreneurial drive that opened northeastern Alberta is evident today with Paramount's current activities in northwestern Alberta, the Cameron Hills area, and the Liard Basin in the Northwest Territories

While successfully building an exploration company, Clay has also found time to be involved in fundraising initiatives for the Calgary Flames Charity Foundation, the Between Friends charity golf tournament, and his alma mater, the University of Manitoba. He remains committed to several industry activities as well, serving as CSPG President in 1987 and as Chairman of the Canadian Association of Petroleum Producers in 1993. . We congratulate Clay on his winning of this award.

The 2001 award will be presented in Calgary next February.

GRADUATE STUDENT THESIS AWARDS COMMITTEE CSPG GRADUATE STUDENT THESIS AWARDS COMMITTEE – 1999

(Christopher Harrison, Chairperson; Andre Chow, Leslie Eliuk, Tony Hamblin, Don Keith, Wendy Shier, Caroline Williams)

Each year this Committee evaluates submitted M.Sc. and Ph.D. theses, and selects one of each that makes the most significant contribution, in that year, to sedimentary and/or petroleum geology in Canada. The awards for the top thesis in each category consist of a one-year membership in the CSPG, a combination of CSPG books and/or approved CSPG field trip registrations worth a total of \$1000, and a framed certificate presented at the appropriate luncheon. Illustrated citations, acknowledging the achievement of the winners, also eventually appear in the *Bulletin* and/or *Reservoir*.

This year (1999) 14 M.Sc. and 4 Ph.D. theses were submitted representing 9 universities across Canada. The winner of the M.Sc. award was **Susan J. Reid** (The University of Calgary, John Hopkins advisor) for "Anatomy of a paleokarst reservoir: sedimentation and diagenesis of the Pekisko Formation in Twining Oil Field, Alberta." This thesis revisits a field studied over two decades ago (also a M.Sc. at the U of C) but, like the oil industry itself, has had much additional data and theory to bring increased understanding to the subject. Over 1½ townships and many hundreds of wells were mapped and a number of cores/wells were found to contain paleocaves. The karst processes were shown through petrography to also have enhanced reservoir porosity-permeability in distinctive shoal facies of a limestone ramp. This comprehensive study gives a better depiction of reservoir architecture.

The winner of the Ph.D. award was **Dr. Elizabeth C. Turner** (Queen's University) for "Growth dynamics, framework composition and microstructure of giant Early Proterozoic calcimicrobial reefs, Little Dal Group, Mackenzie Mountains, N.W.T." Following up on Jim Aitken's initial work on these Precambrian reefs, Turner with her advisors Noel James and Guy Narbonne has already published most of her thesis in three articles. These Neoproterozoic buildups, the first to have a calcimicrobial and thrombolitic framework, represent a major change between earlier Proterozoic and Phanerozoic reef ecosystems making them the first representatives of 'modern'-style reef growth. The geometries of these ancient reefs were demonstrated to respond to environmental variations much like the better-known and ecologically-complex Phanerozoic reefs. Finally, detailed petrography showed that microbialite microstructures, previously thought to differ in origin, are a continuum where early diagenesis has acted to various degrees on a single progenitor community.

For information on a newly discovered 20 million barrel oil field in an excellently illustrated and researched study that further develops the paleokarst theme (along with Les Eliuk's favorite, megalodont clams), the reader is referred to the runner-up Blake Ford's M.Sc. thesis (The University of Calgary, John Hopkins

advisor) "Sedimentology and diagenesis of the Nisku Formation, Wayne, Alberta."

This annual CSPG competition is initiated with a poster advertisement sent out early each year to all Canadian university geology departments to the attention of both the students and faculty. Advertisements are also posted in GAC's *Geolog* and in the *Reservoir*. The Committee would greatly appreciate any CSPG member informing them of possible candidates. Eligible theses are those that have been produced by students who have graduated at the preceding Spring or Fall convocation from a Canadian university, or who have completed research in the same period at a foreign university on a suitable Canadian topic. Theses are sent to the Committee chairperson by early September. By mid December the winning theses are determined by the Committee, and authors and respective supervisors are notified thereafter. The Committee is keen to accept for consideration any thesis that might be of interest to the society members including (for example) topics relating to hydrogeology, sedimentary-hosted mineral or hydrocarbon deposits, remote sensing or subsurface imaging techniques in sedimentary basins, basin modeling or evaluation, biostratigraphy and geochemistry. Criteria by which these are judged include definition of purpose and success in reaching goals, method and logic of investigation, originality of topic, ideas and content, validity of interpretations and conclusions, completeness of data generation and presentation, contribution to science and industry, depth and thoroughness of research and overall effort as well as organization of chapters, quality of writing and effective use of illustrations. Successful theses will also provide, where appropriate: a full consideration of the economic implications of scientific contributions made from a small study area or topic; and will relate any observations made in modern depositional settings to the ancient record, and vice versa.

The 2000 award has been modified so that the M.Sc. winner will receive \$1000 cash and the Ph.D. winner \$1500 cash. In addition they will both still receive a one-year membership in the CSPG, a CSPG book and a framed certificate.

The 2000 Committee will have a different look as Chris Harrison has stepped down as chairperson after a half decade of leadership with no doubt a sigh of relief. Chris remains on the Committee. Andre Chow has assumed the role of the chairperson. The Committee also welcomes two new members into the fold, Susan Reid and Martin Teitz. Special thanks are extended to continuing members for their dedication and time spent reviewing theses the Committee receives every year. And finally to our social subcommittee thanks for finding and testing of various public venues for our regular fall meetings and supper finale (take note prospective new members).

REGIONAL GRADUATE/UNDERGRADUATE SCHOLARSHIPS

(Shawna Christensen, Chairperson; James Duggan, David Kisilevsky and Angela Kolisnik)

The CSPG 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 one graduate in each of the three regions of Canada. The 2000 recipients are:

- Western Canada: Michael Rees (University of Calgary) – MSc. *Fault Seal Analysis*.
- Central Canada, Christopher Stott (University of Western Ontario) – Ph.D. *Biostratigraphy and paleoecology of the Ordovician-Silurian boundary interval in the northeastern Michigan Basin*
- Eastern Canada: Heidi McDonald (Dalhousie University) – MSc. *Sedimentology of Late Carboniferous Cyclothems, Sydney Basin*

The CSPG 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 one undergraduate in each of the three regions of Canada. The 2000 recipients are:

- Western Canada: Tiffani Fraser (University of Calgary)

- Central Canada: Mathieu Richer (McGill University)
- Eastern Canada: Jonathon Winsor (Memorial University)

UNDERGRADUATE STUDENT AWARDS COMMITTEE (Chris Tanglis, 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, a certificate of achievement, and a \$100 cheque to defer costs incurred in framing their certificates.

The 2000 Undergraduate Awards will be presented to the following students:

School	Name of Recipient
Acadia University	Jason O'Connell
University of Alberta	Michael Hearn
Brandon University	Scott Schoonbaert
Brock University	Kristen Hynes
University of Calgary	Tiffany Fraser
Dalhousie University	Jenn Sabean
University of Guelph	Kimberly Rowledge
Lakehead University	Becky Rogala
University of Manitoba	Guy Desharnais
McGill University	Allison Gibbs
McMaster University	Ivana Novosel
Memorial University of Newfoundland	of Garrett Weir
University of New Brunswick (Fredericton)	Tracey Arsenault
University of New Brunswick (St. John)	Margaret Legere
University of Ottawa	Wade Trembley
Universite du Quebec a Chicoutimi	Julie Belanger
Universite du Quebec a Montreal	David Hugues Albert
Queen's University	Don J. Simmons
University of Regina	Jill Wuschke

St. Francis Xavier University	Paul Blakeney
St. Mary's University	David Harris
Simon Fraser University	Christopher Anton Thorson
University of Victoria	Jeremy Fyke
University of Waterloo	Amy Woynillowicz
University of Western Ontario	Kelly Batten
University of Windsor	JoAnn Adam

Neil Stalport
Vic Urban
Cheryl Wright

Brian Tuffs
James Viau

The winners of the Volunteer Awards for 1999-2000 were:

Nawras Akkad	Vaughn Allan
Shaun Alspach	Duane Avramenko
Bill Ayrton	Wes Bader
Peter Bauman	Bianca Beck
Andrea Bell	Hany Beshry
Al Blackie	Bob Bonnar
Karen Bradshaw	Matt Caddel
James Carter	Joan Carter
Rick Charland	Dean Clemenson
Gela Crane	Don Cook
Colin Cox	Wayne Cox
Shaw Dashtgard	Leah DeJong
Keith Dewing	Ken Drabinshy
James Duggan	Brent Felix
Brian Fyke	Doug Hamilton
Rory Hankel	Sharon Hardy
Andrea Henry	Cliff Herman
Christopher Heubeck	Denise Hodder
Mike Johnson	Fred Laudel
Christine Link	Dion Lobreau
Greg Loughlin	Michelle Lund
Bruce Lyon	Mark Mallamo
Bruce McFarlane	Marianne McKenzie
Gord McLean	Rudi Meyer
Joan Moffat	Jason Montpetit
James Newsome	Monique Peterson
Indy Raychaudhuri	Dave Russum
Lisa Sack	Regina Shedd
Phil Simony	Greg Soule
Dwayne Sparks	Brad Spence
Stan Stancliffe	Natalie Sweet
Neil Theissen	Suzanne Theriault
Stan Volk	Warren Walsh
Brent Wignall	Stan Williams
Dan Willson	

This year's response for candidates was 73%, with all of the universities contacted. The possible reason for the lower response may be due to changes in the pertinent contact at the University.

I'd particularly like to thank the contact professors at each of the universities for making this possible.

TRACKS, SERVICE AND VOLUNTEER AWARDS (Shawna Christensen, Awards Coordinator)

The winners of the Tracks Awards for 1999-2000 were:

Mark Cooper
Ashton Embry
Jon Greggs
John Varsek

The winners of the Service Awards for 1999-2000 were:

Rod Blais	Allan Carswell
John Cody	Mark Cooper
Tim de Freitas	Mike DesRoches
Jon Dudley	Sean Duncan
Patrick Elliott	Joseph Eng
Ray Featherstone	Peter Fermor
Glenn Gray	Peter Harrington
Chris Harrison	Steve Hiebert
Randy Hughes	Ian Hutcheon
Dennis Johnston	Craig Lamb
Sandy McCracken	Scott McLellan
Graham Millington	Suzan Moore
Grant Mossop	Godfrey Nowlan
Elizabeth O'Neill	Bob Parker
Kevin Parks	Angela Pronk
Craig Rice	Cindy Riediger
Kevin Root	Robert Scammell
Maggie Schofield	Hans Speelman

Special Service Awards were given to Chris Harrison and Billie Chiang.

SOCIAL EVENTS

PAST PRESIDENT'S DINNER (Terry McCoy, Chairperson)

The Past President's dinner is an annual event. The current Executive and all 42 of the Past Presidents of the Society are invited to pay hard cash to listen to the current president, Kathy Scales, extol the virtues of her tenure. For this privilege, the Past Presidents are then given the opportunity to raise any issues or concerns that they may have with the way the Society is being managed in comparison to their (stellar) year. The President is called upon to politely manage all incoming queries. The 1999 meeting was no exception to the usual raucousness of this particular crowd. Issues of particular importance focused on the financial health and quality of the *Reservoir*, and the recent lack of publications.

AWARDS DINNER (Douglas Carsted, Chairperson)

This year's annual Awards Dinner was held at the Palliser Hotel on Tuesday February 15 2000. Past President Kathryn Scales presided over the evening's events, which were attended by 140 members, spouses and guests. After the usual excellent dinner served up by the staff of the Palliser, the Society's major awards for professional and technical excellence were presented. The Society also bestowed an Honorary Membership on Dr. Gerard V. Middleton. Following the awards Alan Dyer of the Calgary Science Centre presented an excellent talk on "The Amazing Sky".

MEN'S ANNUAL GOLF TOURNAMENT (Ron Newman, Chairperson)

The Fortieth Annual CSPG Men's Golf Tournament was held June 21-23, 2000 at the Elbow Springs Golf Club. One hundred and seventy-nine players participated during the 3 days of the tournament. At the conclusion of the tournament there were 22 flight winners and a winning scramble team taking home the hardware and bragging rights for a year. For the others it was time to renew acquaintances and initiate new business relationships, win prizes and trips courtesy of generous sponsorship from the corporate community. This allowed to tournament to record a surplus for this year

and add slightly to the accumulated surplus of the previous years. The tournament was started in 1961 by among others the late Fred Brechtel, who saw a need for a social golfing function for geologists. The tournament has been especially popular in recent years, having gone from 144 participants since the late 1960's to 152 in 1988 and finally to 176 in 1998. From mid-1970's the tournament has been oversubscribed with the past 5 years with waiting lists in excess of 40 despite the increase in the number of participants. In 1997 the tournament moved to the more spacious 27-hole Elbow Springs Golf Club. Contrary to a popular lore, the tournament is not the domain of an exclusive group. New applicants and sponsors are welcome. Under favorable circumstances a new applicant might be successful on the first try, but in most cases repeat applicants get in on the second try because they receive high priority for being persistent the second time around.

The winner of the Paskapoo Flight in the year 2000 and current Champion of the golf tournament is Scott Dutton, who won in a tight match over Runner-up Ray Madison. Gary Freeman led the Chuckwagon team winners. The other members his team were Jack Palmer, Ron Hill and Duncan McCowan. The weather was excellent for all three days, which made it an especially enjoyable experience for everyone (unlike 1999 when the final day was played in a downpour). All participants are looking forward to the 41st Annual tournament June 20-22, 2001 at Elbow Springs Golf Club. The General Committee apologizes for the overlap with the CSPG Annual Convention but was unavoidable due to the lack of lead-time required to make changes once the Convention Committee finally settled on its dates. The overlap will affect mainly sponsors and Committee members more than the participants whose conflicts should be minimal.

CSPG MIXED GOLF COMMITTEE (Dick Willott, Chairperson)

The 11th annual CSPG Mixed golf tournament was held at D'Arcy Ranch on August 25th, 2000. Once again, a gorgeous day – there's definitely something to be said for golfing in Alberta in August. 140 golfers participated this year, with a few left on the waiting list.

The Low Gross trophy was won by the team of Darryl Robbins, Mike Maughan, David Middleton and Patricia Halbauer; Low Net was captured by Rick Sereda, Laurence Fabbro, Kathy Scales and Barry Mazurkewich; the High Gross (most honest?) trophy was well-earned by Dave Robinson, Vic Urban, Mel Chambers and Jan Harvey.

The organizing committee consisted of Dick Willott (chairman), Penny Harley working on the registration, Doug McGlashing, Ron Britton and Gord Gilmour (sponsorship), Rick Sereda looking after the prizes, and Jane Crandall looking after miscellaneous duties.

Some of the Committee members have been serving for several years, and would like a respite. Therefore, we will need to find a couple more volunteers if we are going to hold this tournament next year. If you feel you can contribute a few hours to this worthy cause, please contact Dick Willott at Boyd PetroSearch (543-5387, or email dickw@boydpetro.com).

Many thanks to all the Committee members; their hard work made for another great event. Thanks to all the sponsors and contributors, especially to Financial Management, our Lead Sponsor, for their continuing and generous support, and thanks to all who came out for a fine day of golf with us.

CSPG SQUASH TOURNAMENT (Anne Burrage and Fred Laudel, Co-Chairpersons)

No surprises here! As in year's past, the (17th) annual CSPG Squash Tournament was a great success. The 2000 Tournament was held at the Calgary Winter Club and we had over 125 participants whacking squash balls and talking rocks. Our generous and committed sponsors enabled us put on a first rate tournament and provide lots of

refreshments and prizes. Thank you to all of our sponsors. Special thanks to Committee members: James Dobson, Andrea Henry, Andrea Bell, Brian Fyke, Dwayne Sparks and Bob Bonnar. Without the strong Committee support the tournament would not have been the success that it was. The 2001 Tournament is scheduled for February 8, 9, and 10.

CSPG 10K ROAD RACE (Boe Baskerville, Chairperson)

The Annual 10Km race was a well attended event again this year. The race course through Princes Island is not one of the fastest in town but with its several sharp corners it does tend to build character in those runners ready to take it on. Thanks to Rob Taerum's excellent measuring job we know that the course as laid out is very close to the 10Km mark. We actually shaved 23m off just to make up for several of those sharp corners. Thanks to Vic Urban's past organization this race has become a regular occurrence for many of the participants who enjoy the race course, pizza, beer, socializing and prizes (not necessarily in that order).

Once again Don Bambury took the top spot for the first overall male in a time of 34:02. The top overall female went to Karen Haggard in a time of 42:24. The top geologists category winners were Tim De Freitas in 38:11 and Denise Wooffer. In the top geophysicists category Lorna Hawley won in a time of 49:05 and Kees Sinke finished in 36:30.

Our sponsors deserve a great deal of recognition for the success of this and other events organized through the CSPG. Their generous funding made this possible. Thank you to: Accumap Enerdata QC Data, adidas, Alberta Energy Company Ltd, Arcis Corporation, Cabre Exploration Ltd, Canada Brokerlink Inc, Canadian Discovery Digest, Canadian Hunter Exploration Ltd, Compton Petroleum Corporation, Core Laboratories Canada Ltd, Crestar Energy, Cypress Energy Ltd, Decollement, Eau Clair YMCA, Earth Signal Processing Ltd, Gord's Running Store, Gulf, International Exploration

Consultants Ltd, Landmark, Maxx Petroleum Ltd, N.C.E., Northrock Resources Ltd, Northstar, Precision Seismic, Reeves Wireline, Renaissance Energy Ltd, Riley's Reproduction, Rio Alto, Talisman, Tokpella Resources Ltd.(Mole), and Tucker Wireline.

This race depends upon the participation of many dedicated volunteers. I would like to single out: my co-chairman Ann Ceccanese, Dorothy Chin, Vic Urban, and both Kathy & Rob Taerum.

OUTREACH PROGRAMS

STUDENT INDUSTRY FIELD TRIP (Allan Carswell - Chairperson, Bonavista Petroleum; Shaun Alspach, CNRL; Wes Bader, UPRI; Henry Beshry, Cypress; Matt Caddel, BP Amoco; Gela Crane, PCP; Leah DeJong, Bonavista; Mike DesRoches, CNRL; Doug Hamilton, PCP; Denise Hodder, Mobil; Dawn Hodgins, UofC; Bruce McFarlane, Canadian Hunter; Marianne McKenzie, Husky; James Newsome, PCP; Indy Raychaudhuri, Cypress; Lisa Sack, Canadian Hunter; Greg Soule, Can Oxy; Brad Spence, Numac)

The Student Industry Field Trip (SIFT) was initiated in 1978 by the Canadian Society of Petroleum Geologists based on a concept conceived by Bill Ayrton to introduce bright, young geoscientists to the petroleum industry. One student representing each of the Canadian Universities across Canada offering Bachelor degree programs in geology, geophysics and/or geological engineering are invited to participate each year.

This year's SIFT took place from April 30th to May 13th with 32 students participating. It was an action-packed two weeks consisting of lectures, field trips and an exploration game. Students were exposed to a variety of topics including clastic and carbonate sedimentology, sequence stratigraphy, geophysics and well logging, to name a few. Students used their new found knowledge in an exploration game, where they formed companies consisting of 4 or 5 individuals. Each company was given money to buy land and

drill wells. At the end of the trip each company presented their results to a panel of judges. This year's winners of the Technical Award for best geologic interpretation were "Gusher Oil" which consisted of Jason O'Connell (Acadia), Danette Schwab (Simon Fraser), Keith Yaxley (McGill) and Sharyn Alexander (McMaster). The winners of the Financial Award for making the most profit were "Pinchout Oil and Gas" which consisted of Paul Blakeney (St. F.X.), Cheryl Reid (St. Mary's), Peter van Driel (U of Waterloo) and Megan Namespetra (U of Windsor). It was a tough decision choosing the winners as all the students did an excellent job.

Field Trips play a very important role in SIFT and are often one of the highlights of the trip. A one-day tour of Dinosaur Provincial Park introduced the students to the geology of southern Alberta. A four-day excursion into the Canadian Rocky Mountains taught the students about the structural evolution and development of the Canadian Cordillera. In spite of contending with sub-zero temperatures and snow covered outcrops, the students enthusiasm during the four-day trip was not dampened.

The SIFT program relies heavily on volunteers to make it a success. Many thanks are extended to the 2000 SIFT organizing committee for their efforts in organizing this year's trip. We would also like to thank the numerous volunteers, who assisted by giving lectures, core seminars and field trips. The quality of these presentations was exceptional and without the contributions of these individuals we could not offer such a fantastic opportunity to the students. Unfortunately, the group is too numerous to detail here, however a complete list of volunteers and schedule of events can be found under SIFT (Under Educational Trust Fund) on the CSPG web page (www.cspg.org).

Funding for SIFT is provided by the CSPG Educational Trust Fund. Many thanks to those who provide continuous support for this fund. Thanks also go to the additional sponsors who provide support with the Rocky Mountain flyover, core table rentals at

the Core Research Center and CSPG Luncheon tickets. This year's sponsors include: AGAT, APF Energy, Ayrton Exploration Consulting, Bonavista Petroleum, BP-Amoco, Canadian Hunter Exploration Ltd., Canadian Occidental, Canadian Natural Resources Ltd., Computalog, Crestar Energy, Cypress, Encal, EUB, Gulf Canada Resources Ltd., Husky, Mobil Oil Canada, Numac, PanCanadian Petroleum Ltd., Petro-Canada, Royal Tyrrell Museum, Shell Canada, Talisman, Tucker, University of Calgary, and UPRI.

A relatively new addition to SIFT is the summer job program. The Committee places students in summer work terms with companies in the petroleum industry. These students make excellent additions, as they are very enthusiastic and eager to use their new-found knowledge. SIFT 2000 would like to thank BP-Amoco, Canadian Natural Resources Ltd, PanCanadian Petroleum Ltd. and Petromet for hiring SIFT students this summer. Thanks to Gulf, NCE and UPRI for participating in the summer student program. If you are interested in hiring a student from the upcoming SIFT 2001, please contact Doug Hamilton at PanCanadian Petroleum Ltd.

If you would like to learn more about the SIFT program (under Educational Trust Fund), please visit the CSPG website (www.cspg.org). Past SIFT students are welcome to let us know where they can be reached so we can post this information on the web and reunite past SIFT friends.

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

This committee is responsible for recruiting and making arrangements for lecturers representative of the CSPG to make their presentation to the Earth Science Departments of Canadian Universities.

In October of 1999 Dr. Ian Hutcheon, the 1998 Link Award winner toured the universities of Memorial, Dalhousie, Acadia, St. Francis Xavier, and New Brunswick, speaking on "The Controls on the Origin and Distribution of H₂S and CO₂ in Clastic and

Carbonate Rocks of the Western Canada Sedimentary Basin." This talk will be given in the fall 2000 at the universities of Alberta, British Columbia, Victoria, Saskatchewan and Regina.

I would like to thank Bill Beaudoin for all his hard work this past year.

SEDIMENTOLOGY DISPLAY COMMITTEE (Michael Breiteneder, Chairperson)

No report available. Committee inactive.

**CONFERENCES, CONVENTIONS,
SEMINARS AND SYMPOSIA**

GEOCANADA 2000 JOINT SOCIETY CONVENTION (Ian W. Moffat, Ph.D., P.Geol. , CSPG Co-Chairman, GeoCanada 2000 Steering Committee.)

The CSPG convention in 2000 represented the first time that a multi-societal convention incorporating all of the 6 major geoscience societies (CSPG, CSEG, CWLS, CGU, GAC, MAC) in Canada was attempted. The idea to hold such a conference was first proposed in the mid – 1990s. Through time, excitement surrounding the concept of such a conference grew and the obvious date for an attempt at such a gathering of minds was 2000, which was arguably the end of the last century or the start of the next (based on your own personal bias of course). Planning for this event began several years ago with the GeoCanada 2000 General Chairperson and a CSPG Past President Ian McIlreath bending the ears of the various societies in order to garner their support. Approximately 2 years before the convention a Steering Committee composed of representatives from each of the sponsoring societies was formed in order to start to piece together the framework for this challenging endeavor. A theme was adopted: The Millennium Geoscience Summit, which spoke to the notion that the convention would provide the context to look back at the accomplishments of the Canadian Geoscience community, to look at where it is now and to look forward at the opportunities, challenges and key issues that the new millennium may offer to the

Canadian geoscience community. Over the ensuing months a volunteer committee structure was formulated which eventually resulted in 17 committees and a total of approximately 200 volunteers. This committee structure did, however, offer its own particular challenges. Unlike normal CSPG conferences where committees are comprised of volunteers all of similar backgrounds and sense of direction, GeoCanada 2000 incorporated volunteers from all of the societies. By the very nature of the various societies conflicting viewpoints on how conferences should be organized in general, a serious challenge was presented to all involved. This challenge was met with great enthusiasm, and considerable determination. As always all of the volunteers involved are to be commended for their outstanding dedication and efforts.

It is worthwhile to point out the particular challenges that were faced in offering a conference in the year 2000. Numerous competing conferences in Calgary and areas abroad afforded considerable challenge in the area of sponsorship, exhibits and registration. One major problem encountered was that in order to avoid competition with the 1999 CSPG convention GeoCanada 2000 was required to wait until May of 1999 before seeking sponsorship or exhibitors. By this late date other conventions such as the World Petroleum Congress had successfully "picked the pocketbooks" of most of the oil companies in Calgary. As well, many of the potential exhibitors had recognized that they could not commit to a showing at both GeoCanada 2000 as well as the SEG, which was held in Calgary in July. The presence of the SEG and a major geophysical conference in Scotland in this same time period determined that registration from the geophysical community would be less than was originally anticipated. Given that Revenue for the conference counts directly on the aforementioned three areas, serious head scratching and hand wringing were common elements throughout the budgetary process. The fact that the convention was able to generate a healthy profit attests to

the strong commitment from volunteers throughout all of the committees.

It was through the hard work of the Technical Committee which was chaired by John Varsek (Mark Cooper, CSPG representative) that undoubtedly the most spectacular technical program ever offered at a Canadian Geoscience conference was achieved. A total of approximately 717 talks and 380 poster sessions were offered over the 5-day meeting. The technical program was divided between Summit Sessions, Thematic Sessions and Keynote Speeches and organized in such a way as to address the idea of integration of geoscience disciplines. Integration of the geosciences was seen to be one of the main goals of the gathering and when the conference ended was viewed to be one of its key successes. To this end, comments from many CSPG members suggested that the various talks on areas such as global warming were at least as well received as the typical oil field case study CSPG members are used to seeing. Complementing the formal technical presentations were the Field Trips in which a total of 352 delegates registered for 18 field trips. These field trips dealt with topics as diverse as lead-zinc deposits and heavy oil tar sand deposits and visited areas throughout Alberta and British Columbia. Thanks to the diligent efforts of Field Trip co-chairmen Chris Harrison and Cindy Riediger this portion of the conference enjoyed financial as well as technical success. As is the case with both CSPG and GAC/MAC conferences each year Short Courses were offered at GeoCanada 2000. The Short Course Committee (Tim de Frietas and Angela Pronk Co-chairmen) proposed 26 short courses in the Final Circular of which 18 were able to attract enough participation to proceed. These short courses saw attendance by some 288 registrants, a key component of the overall conference Revenue. As at every conference over the past few years GeoCanada 2000 wound-up with the Core meltdown. And as in previous years, this event was a grand success, most of us finding it difficult to squeeze through the crowds to get a look at a particular core

or just to grab a “cold one” later on. In addition to the core conference, GeoCanada 2000 organized an exhibit called “Geotreasures” which took place at the Nickle Arts Museum on campus. This exhibit showcased various displays of geologic interest donated from Universities and private collections across Canada and was open to the general public.

In any conference of this size and scope one can imagine the numerous logistical challenges. The various committees such as Accommodations (Brad Spence), Arrangements (Craig Lamb), Registration (Sean Duncan) and Transportation (John Cody) worked hard to ensure that the technical program went forward seamlessly. This was only the second conference to be held at the University of Calgary venue and GeoCanada 2000 benefited from the experiences and encouragement of the GeoTriad organization committee.

GeoCanada 2000 was the first CSPG conference to benefit from incorporation of its own website. Cheryl Wright (Chair Marketing committee) did a commendable job in coordinating various aspects of the website construction, always making sure that it served the individual needs of the various committees. Certain aspects of the website such as online abstract submission, retrieval and review worked wonderfully whereas others such as online registration left something to be desired. As is the case with all CSPG conventions we learn best from both our successes and mistakes, all of which are in the process of being carefully documented. This final documentation creates an ongoing database for future conferences to reference.

An initiative developed by the 1999 CSPG conference was having the conference program delivered on CD-ROM in Adobe Acrobat format. GeoCanada 2000 opted for this method mainly due to the enormous size of soft cover book(s) that would be required to house the unprecedented number of abstracts. This was complemented by the sequestering of these abstracts at the web-site with on-line access being available to the public several

weeks prior to the conference commencement.

Another initiative of the GeoCanada 2000 convention was to hire a full-time conference coordinator. Jon Dudley filled this role and provided the valuable link between the various committees and between the committees and overall organizing committee. It is recognized that without this position the convention would have been at grave risk.

As is the case at all CSPG conferences the realization that “man does not live by bread alone” necessitates a strong entertainment program. Maggie Schofield (Chairperson Entertainment committee) and her capable group of volunteers put together a fantastic program in the face of ever changing budgetary restrictions. The icebreaker was held on the Monday night at the Olympic Oval, in and amongst the exhibits and posters. Exhibitors were extremely pleased with this event, affording them the chance to accost the maximum number of potential clients in the shortest amount of time. Smaller albeit just as well attended gatherings occurred in the Oval at the finish of the technical program each day. This allowed registrants the opportunity to enjoy some refreshments and view the posters that were situated around the exhibit hall. The entertainment committee also was responsible for a jazz night at Heritage Park, which was enjoyed by all who were able to attend. Luncheon talks were quite well attended and involved well-known speakers such as Roberta Bondar and Jamie Clarke. And, as mentioned earlier, the Core Meltdown wind-up party was a great way to celebrate the conference successes.

From the fiscal standpoint, Finance chairman Peter Harrington kept a close watch on the bottom line, creating innovative methods of tracking expenditures against the budget and issuing cash advances to committees. At the time of writing of this report GeoCanada 2000 books are still open and we still await settlement of several areas of expenditure and/or revenue. Early on the CSPG came to an agreement on conference profit splits with the other sponsoring

societies, the CSPG share being 38%. A very preliminary estimate shows the conference generating a profit for the CSPG that is on par with that of previous conferences. Keeping in mind the considerable financial challenges faced by GeoCanada 2000 (other coincident conferences competing for sponsorship, exhibits and delegates) this is viewed as being an outstanding success by the organizing committee.

In conclusion GeoCanada 2000 can be considered as a successful experiment. It was not without its problems and concomitant headaches. CSPG volunteers, as always rose to the various challenges and through their hard work we were all rewarded with a spectacular technical conference, one that has, no doubt, raised the bar for future conferences. It is impossible to recognize the contribution of each CSPG individual who volunteered his/her time in this short review. Suffice it to say that the organizing committee is extremely grateful for their selfless dedication and it is hoped that the membership as a whole feels the same way. Would we do this again.....well I think you will have to ask us all that question after a few months. I think it must be like childbirth.....after awhile you forget the pain, only remember the joy and are prepared to do it all over again.

2001 CONVENTION COMMITTEE (Regan Palsgrove, General Chairperson)

No report available.

LIAISON COMMITTEES

EDUCATIONAL TRUST FUND (N. Desmond Smith, Chairperson)

The CSPG Educational Trust Fund spent most of 1999/2000 bringing the Millenium Program to the membership through the Reservoir and the Convention. \$27,892 was raised during the past year from both receipted donations and corporate contributions. The ETF continued to support the national EdGeo Program, bringing quality geoscience training to high school teachers

(\$12,500), co-sponsoring the annual CSPG Honorary Address at the Southern Alberta Jubilee Auditorium (\$1,695), providing on-going support to the Yoho Burgess Shale Foundation (\$1,500) and, of course sponsoring the Student Industry Field Trip, the Trust's primary function.

The ETF is committed to the Millenium Program's goal of raising \$3M in order to assume full responsibility for CSPG Outreach functions and expanding those functions across the national stage. The past year has seen continuing discussions with the CSPG about the integration of solicitation functions with the Society at the corporate level and, with the assumption of the Corporate Relations Chairmanship by Monty Ravlich, the ETF is optimistic that the corporate element of the Millenium Program can now take off.

As of September 29, 2000 the asset base of the Trust stood at \$273,709 in equities, \$451,459 in fixed income, and \$8,376 in cash, for a total of \$733,544.

The Chair, N. Desmond Smith elected to retire in November 2000 due to increasing overseas work commitments. The Board wishes to thank Des for his many years of devoted and energetic leadership in expanding the scope and definition of the Educational Trust Fund. The Board wishes to remind members that there are always opportunities on the Board for individuals wishing to participate in developing the philanthropic function of geoscience education. Your involvement is welcome. Simply contact Tim Howard in the CSPG office for more information.

AAPG HOUSE OF DELEGATES (Dave Scott, Chairperson; report submitted by George Eynon)

The American Association of Petroleum Geologists (AAPG) is the world's largest professional geological society with approximately 31,000 members in 115 countries. Its purpose is to foster scientific research and to advance the science and profession of geology – particularly as it relates to oil and gas and the environment. The AAPG publishes a monthly geologic

science journal and a monthly newspaper — the *Bulletin* and the *Explorer*; sponsors continuing education schools, seminars and field trips; holds conventions world-wide; publishes special geologic books and materials; and provides geologic information to the general public.

“Canada” – An International Region

AAPG recently instituted a series of International Regions to represent international members and to promote AAPG services. The Canada Region of AAPG includes all Canadian Members of AAPG – about 1,300 in total – most of who are also CSPG members. Much of the immediate domestic need of members for technical talks and publications, conferences, short courses, field trips, and so on, are met by the CSPG. But with more and more professionals working throughout North America and internationally the Canada Region will assume a more important role.

Steering Committee – Election of Officers and Delegates

Under its Bylaws the Canada Region is governed by a Steering Committee comprised of its officers—the President, the Vice-President/Treasurer, the Secretary/Foreman, the Past President and the Advisory Council Representative—and the Delegates to the House. The Steering Committee meets monthly.

Ned Gilbert, the first President of the Canada Region, was appointed by the President of AAPG at the unanimous request of the “Canada caucus” (delegates to the House from CSPG and Saskatchewan Geological Society). Ned is the longest serving member of AAPG in Canada—55 years—and is still extremely active in professional affairs. He became a Member of both AAPG and CSPG (actually its precursor Alberta Society of Petroleum Geologists) in 1945.

Our current officers, for the 2000-2001 term, are:

- **President - Marty Hewitt**
- **Vice President/Treasurer - Deb Nishida**

- **Secretary/Foreman - Dave Scott**
- **Past President – Ned Gilbert**
- **Advisory council representative – George Eynon**

CANADA REGION @ AAPG

Canada’s AAPG members are well represented in the governance structure of AAPG in several ways. The AAPG is governed by three branches — a classic US “checks and balances” format — the Executive Committee (EC), the Advisory Council (AC), and the House of Delegates (“the House” or HOD).

First, the Region sends Delegates to the House.

Delegates are elected by the AAPG members at large in Canada, and serve rolling three-year terms. The number of AAPG members in Canada entitles the Region to 15 Delegates; one per seventy Active Members. The current Delegates are Wes Bader, Kathy Bergman, Michael Clegg, Bob Dick, Paul English, George Eynon, Ned Gilbert, Chris Heath, Marty Hewitt, John Hogg, Brad Maynes, Tom Moslow, Gerry Reinson, Dave Scott, and Tony Tankard.

Canada’s Delegates are extremely active in House affairs.

- John Hogg is Past Chairman of the House — and was the first non-US Chairman of the House in its thirty-year existence.
- George Eynon is a Chairman of the Constitution and Bylaws committee.
- Michael Clegg is a member of the Future of Earth Scientists committee
- Chris Heath is a member of the AAPG International Liaison Committee.
- Marty Hewitt is Chairman of the Resolutions Committee.

Second, the Region elects a representative to the Advisory Council. This elected position has a 3-year term (July 1, 1999 to June 30, 2000), currently held by George Eynon. Third, the President of the Canada Region, Marty Hewitt, serves as liaison to the Executive Committee and to

the Headquarters office. In addition, numerous individuals serve on ad hoc committees, as AAPG Distinguished Lecturers, and so on.

CANADIANS RECOGNIZED – AAPG AWARDS

Each year, AAPG recognizes earth science professionals who make significant contributions to the science of geology, the community, or to the Association through a variety of awards. Recent Canadian recipients include...

- Pioneer Award – Bill Gussow (2000)
- Michel T. Halbouty Human Needs Award – Phil Currie (1999) and Ray Price (1997)
- ***Distinguished Educator – Charlie Stelck (2001)***, Roger Walker (1999), Gerry Middleton (1998)
- Distinguished Service – Tony Tankard (1997), Ashton Embry and George Eynon (1996)
- ***Honorary Membership – Ned Gilbert (2001)***

AAPG CANADA REGION – AND GEOSCIENCE TECHNICAL TRAINING CENTRE

Canada Region members have initiated an effort—working with the CSPG and CSEG—to establish a Canadian version of the Petroleum Technology Training Centers that exist in several US locations and in London. These are mid-career training centres for the continuing education and technical upgrading of geoscientists. The University of Calgary has been selected as the site for the GTTC (or perhaps Geoscience Professional Development Centre – GPDC?) under the auspices of the nascent Energy Centre that the University wishes to establish with industry. We are seeking AAPG Foundation grant funding to help establish the GPDC.

THE AAPG CANADA REGION – AND YOU!

Given the global nature of our business, more members may want to get involved in the AAPG.

Representing your colleagues in the House is a relatively small but extremely significant contribution. The time commitment is not onerous—monthly Calgary meetings of the Delegates, where the Region business gets hashed out, and the half-day annual House meeting at the AAPG convention each year. But don't worry if you are unable to make it to the convention—alternates are arranged from the other AAPG members attending, since we know it is not possible for every official Delegate to be there.

The Canada Region Delegates to the House of Delegates are elected each spring, by popular vote. If you think you might be interested in running, please contact Dave Scott @ (403) 231-3154 or by e-mail at dscott@pioneerCanada.com

WORLD PETROLEUM CONGRESS LIAISON COMMITTEE (Paul Price, Chairperson)

No report available.

NORTH AMERICAN COMMISSION ON STRATIGRAPHIC NOMENCLATURE (NASCN)

(CSPG Commissioners R. W. Yole and Brian R. Pratt)

The 54th. Annual Meeting of the North American Commission on Stratigraphic Nomenclature(NACSN), held in Denver CO, October 25th. 1999, was attended by Commissioner Ray Yole. The principal activities of the Commission during the preceding year were again concentrated on general amendments to the Stratigraphic Code of 1983*, and extensive revision and updating of the Biostratigraphy section of the Code(Articles 48 to 54). However several other items of interest to geologists in general and stratigraphers in particular were discussed or brought to completion during the past year or during this annual meeting

of NACSN. For members of CSPG, the following is a brief summary of these topics. Members interested in further information may contact the CSPG Commissioners, or await the complete minutes of NACSN published biennially in the *Bulletin* of AAPG, or refer to Records of the Commission appearing from time to time as Notes in the same journal.

At the contemporaneous Geological Society of America meeting in Denver, a successful technical session of 14 presentations dealing with alloformations, synthems and sequences was organized and sponsored by NACSN.

NACSN now has a page on the world wide web site of the American Geological Institute (AGI). Information on the Commission, its activities and a list of current Commissioners is available there. In addition, the Stratigraphic Code has now been digitized and made available at this site: www.agiweb.org/nacsn/code2.html.

As reported last year, intensive discussions on "sequence stratigraphy" have continued at the Working Group on Sequence Stratigraphy of the International Commission on Stratigraphic Classification (ISSC). The final report of this group to the ISSC was accompanied by a minority submission, reflecting the divergence of opinions on suitable definitions of terms used or proposed for use in the practice of "sequence stratigraphy", e.g. sequence, unconformity, correlative conformity, unconformity-related unit, depositional sequence. Similar uncertainties surround the use of the terms "allostratigraphic unit" and "discontinuity", and their relationships to "sequences". A lively discussion of these problems, and of an appropriate NACSN response, led to a proposal for a research conference, sponsored by NACSN with ISSC participation, to focus on refinement of the concepts and definitions related to alloformations, unconformity-bounded units and sequences. A Hedberg type of conference is envisaged.

Note 63 concerning improved wording of the 1983 Stratigraphic Code and recognition

of certain kinds of electronic publishing in Article 4 is expected to be published in AAPG *Bulletin* for February, 2001. The revision of the Biostratigraphy section of the Code (Articles 48 to 54) has been submitted to AAPG, and may also appear in the February *Bulletin* as Note 64. Comments on these proposed amendments can be addressed to the Commission after publication.

Commissioners Ernest Mancini (U. of Alabama, Tuscaloosa) and Bruce Wardlaw (USGS, Reston, VA) were elected as Chair and Vice-chair, respectively, of NACSN for the 2000-2001 session.

CSPG/APEGGA LIAISON (vacant)

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 13 years.

Highlights of the past year include the following:

- The amount of hits, or activity, on the Petroleum Communication Foundation's (PCF) website has increased so dramatically in the past few years that they decided to spend the effort in upgrading it. Most of the PCF publications are now available online (www.pcf.ab.ca) with the exception of "Our Petroleum Challenge". New items include Question and Answer sheets on Benzene, Sour Gas, and Flaring. As well, two new backgrounders on Sour Gas and Flaring were completed. The Did You Know series (quick facts about oil and gas production) was expanded to include Nova Scotia and Newfoundland.

- The PCF introduced the Petroleum Communicators Network (PCN) in late 1999 to provide those in public affairs, policy and communication positions with a forum to share ideas. The PCF was a sponsor of an Energy Futures Institute 7-day educational opportunity for 30 elementary and secondary school teachers from across Canada. The seminar explored Canada's energy needs and how they can be met over the next 25 years.
- Distribution of The Oil Game began in the fall of 1999. By spring of 2000, 50 games had been ordered. These games give students aged 12 to 18 a firsthand look at the oil and gas industry, through role-playing. The Petroleum Communication Foundation also commissioned an Angus Reid survey exploring Albertans view of the oil and gas industry.

Please visit the PCF website, or their storefront office on the +15 level of the Energy Plaza Building (2nd St. and 6th Ave.) in Calgary, for further information.

PROFESSIONAL DEVELOPMENT CONSORTIUM (Paul Price, Chairperson)
No report available.

APEGGA/UNIVERSITY OF CALGARY STUDENT LIAISON COMMITTEE (Tim Bird, Chairperson)
No report available.

PUBLICATIONS

PUBLICATIONS COMMITTEE (Rory C. Hankel, Chairperson; Mark Cooper, New Publications; Richard Thom, Publication Sales; Tim de Freitas, *Bulletin*; Ray Featherstone and Marc Charest, *Reservoir*; Glenn Karlen, Electronic Communications; Gary Johannsen, Calendar; Jaimè Croft, Communications Manager)
No report available.

STRATIGRAPHIC NOMENCLATURE Stratigraphic Nomenclature (Ashton Embry,

Chairperson: Jim Barclay, Ed Niewinski, Tony Tankard, Ed Wright)
No submissions were received by the Committee in the past year.

BULLETIN OF CANADIAN PETROLEUM GEOLOGY (Tim de Freitas, Editor)
No report available.

RESERVOIR (Ray Featherstone and Marc Charest, Co-Technical Editors; Jaimè Croft, Coordinating Editor and Operations)
No report available.

ELECTRONIC COMMUNICATIONS COMMITTEE (Glenn Karlen, Chairperson)
No report available.

CALENDAR COMMITTEE (Gary Johannsen, Chairperson)
No report available.

BUSINESS

ADVERTISING COMMITTEE (Norbert Alwast & Tim Bird, Co-Chairpersons; Bob Kuchinski, Penny Harley)

Our committee is responsible for overseeing advertising and marketing issues across the Society. We participate in the reservoir, technical luncheon committees and website - as well as helping out with promoting events like Golf, Squash and Honourary Address through advertising.

The committee achieved its goal of bringing in new sponsors for luncheon advertising. The support from the four main slide advertisers is greatly appreciated and critical to our technical luncheon success. We designed a new policy which added data vendors and wellsite consultants to our group of log and core related advertisers. New advertisers can now sponsor our activities and showcase their products and services. We continue to look for ways to improve luncheon advertising through table and other ads.

MacDonaldCole Inc. (MCI) and McAra Printing continue to produce the CSPG Reservoir. MCI handles the advertising role

under our direction. We continue to oversee this process and evaluate progress on an ongoing basis. The reservoir has now broken into the black and our plan is to continue building a worthwhile and profitable magazine- while balancing content, advertising revenue and production costs. A committee goal is to have the Reservoir delivered to various corporate offices in the city. Along with this, we plan to pursue additional opportunities with the calendar and the website. A wider approach to company sponsorship is also planned.

We would like to increase our numbers on the committee. If you are interested, please contact Blythe Lowe through the CSPG Office. We welcome your feedback and suggestions.