

CSPG Bulletin of Canadian Petroleum Geology 2010 Report of Activities

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President's Report

(John Varsek, 2010 President)

The CSPG just completed its 83rd year of continuous operations! To put 2010 into context, I offer these observations. In the broad arc of its history, CSPG members have been influential in the development of leading organizations, geological concepts and consequential economic applications that are recognized and emulated globally. At its outset, and driven by the tumult of the Turner Valley discovery, members have helped to define the principles and practice of resource conservation and professionalism that provided foundations for the ERCB and APEGGA. Its geologists contributed to ground breaking concepts about fold and thrust belts, the organization of continental-scale platforms, foreland basin evolution, carbonate stratigraphy, the Pangean super-continent, and systemization of sequence stratigraphy. They pioneered geologic reconnaissance in the Arctic, mapped, drilled and published the geology of Canada's continental margins, assembled Canada's first petroleum resource assessment, pioneered concepts and economic approaches for development of regional gas traps and permeability plays, including the successful application of statistical drilling and efficient application of stratigraphic models to develop small pools. They have close to a century of knowledge about the globe's largest on land hydrocarbon resource, the Athabasca bitumen deposit as well as being world leaders in the new age of unconventional resources. Today, our members are in the vanguard of research and pilots pertaining to managing pore space for environmental benefit. This decade, we're seeing our high technical standards and mature basin experience, our operating standards and supporting commercial infrastructure being taken internationally. Our member's success is measured in Canada's economic and social wellbeing and in our reputation abroad to develop economically and technically challenging resources.

With that said, I feel profoundly privileged to have served as the 2010 President. I am pleased to report that the renewal mandates described in my inaugural column (Reservoir, February, 2010, p. 5-7) have taken hold and that the Society is in the process of growing stronger as an organization, more productive technically, more responsive to economic challenges, and more stable for the long-term. To that end we implemented strategic financial planning and instigated new technical and facilitation initiatives, some that are multi-year, to position the Society for long-term innovation and resiliency. This overview covers the CSPG's fiscal year (September 2009-August 2010) through to the end of the Executive term and calendar year December 2010. I focus primarily on forward looking projects whereas the remainder of the report addresses results from ongoing core programs. Additional commentary about progress in 2010 is found in my year-end review (Reservoir, December 2010, p. 5-10) and year end interviews (Reservoir, January, 2011, p. 14-15; February 2011, p. 36-37).

Here I will supplement conventional practice in the Report of Activities to describe a critical activity of the Executive team and that is to recognize when change is needed and to address it with tangible programs. The recession of 2008 – 2009 with falling revenues and sticky costs when added to concerns about unresponsive programming and the threat of declining membership provided the impetus to get back to the basics of what the Society is about. Restated, that purpose is to be indispensable to the practice of Canadian petroleum geology. We added a reputational perspective; for the Society to be recognized globally as a leading geological organization. We also considered whether the mandate should be broadened to Canadian energy geology.

The most informative and actionable insights for renewal came from understanding our core purpose. We decided that membership renewal and fiscal performance followed our ability to deliver pertinent programs and services to individual and corporate members. That meant understanding the implications of developments of the past decade, including the great diversification and deepening in the number of technical niches and the integration of professions in the workplace. In contrast, we felt that the CSPG was not keeping up and tended to create technical silos that were not especially responsive to the needs of our members who were looking elsewhere for training. We recognized that we'd not taken advantage of our committees to provide integrated knowledge. Renewal meant that we need to provide our membership with the knowledge and network to be successful in a hypercompetitive energy market. We expect that competition between fossil fuel commodities and basins will continue to be intense, volatile and global, and that we need to position the CSPG for opportunities in clean energy geology. Shared

vision among the Executive and chairs takes time and continued effort, and I believe that we made great strides in 2010. To stay on course and effect multi-year renewal and the supporting culture shift within the CSPG and partners we have the commitment of the 2011 administration and the 2012 president-elect.

Our focus on membership services began with the 2009 comprehensive web-based survey which helped guide long-term direction. During 2010, we reached out to expand our membership base to the Under 35 demographic, including university students, with a new digital outreach program and networking event. We redesigned our volunteer support system to be commensurate with member and Industry expectations, established new volunteer chair and established the inaugural volunteer recognition and training day for February 2011. We greatly increased the visibility of our awards program and have centered the gala on the convention – members are welcome to attend the festivities (Reservoir, August/September, p. 14-24).

We developed a new vision for our website and are currently in the process of implementation. Not only will the website be the communications anchor for the Society but we expect it will also be a significant growth vehicle for the Society. The new site will have a more intuitive navigation interface allowing for better messaging, calendars, ease of updating, rapid implementation of regions links, map-based queries, committee/volunteer staging areas (to preserve institutional memory) and a platform for additional marketing and revenue opportunities. It is currently planned for a June 2011 release date.

After seeing a compelling technical pilot of the Digital Atlas Project (Western Canada Sedimentary Basin), the Executive requested the proponents to assess the viability of the project and prepare a comprehensive business plan for consideration. The Reservoir continues to expand readable technical content and according to members, the physical copy is a welcome reminder of the value the Society provides. We're progressing plans to re-invigorate the Bulletin, to anchor a Canadian petroleum resource assessment, to develop compilations from our research conferences and convention sessions, and to digitally re-sample our 50 years of diversely sourced and tough to find literature pertaining to current plays. We developed a new instructor's fee schedule that is designed to encourage more educational offerings to members.

We recognize that our success depends on raising the level of cooperation and program delivery with affiliate Societies. We created a new award – the Partner Tracks Award – to recognize that excellence. We formed an advisory committee consisting of the Past President, President and Vice President to assist in governance of joint agreements and to guide the Board on the more complicated business matters of the Society.

In-house, we updated financial, member and registration software, computers and servers. We hired a new Publications Coordinator and a new Events Coordinator. Also, in 2010, we continued to evolve employment, copyright, electronic voting and investment policies. To assist in aligning our 50 or so committees, we developed a Committee Approval Request form that outlines fiscal, reputational and legal authorization limits.

Several of Canada's principle geoscience societies met in Calgary for GeoCanada 2010. It was the annual convention for the Society of Petroleum Geologists (CSPG), The Canadian Society of Exploration Geophysicists (CSEG), The Canadian Well Logging Society (CWLS), The Geological Association of Canada, The Mineralogical Association of Canada, and International Association of Hydrogeologists - Canadian National Chapter. It reached 4,622 attendees, exhibitors, and sponsors and was operated by the joint annual convention committee of the CSPG-CSEG-CWLS. It was also the first year for the Earth Sciences for Society (ESfS) exposing 1,769 high school students to geosciences displays on site. One outcome was a strategic commitment with our partner, the CSEG, to continue this program into convention for 2011. The driver was to take advantage of an experienced committee to expand the scope of high school outreach tenfold to a level that begins to approach the scale of our Industry. In September 2010, the CSPG provided technical programming for the AAPG International Convention and Exhibition 2010 in Calgary. Not only were our core workshops and contributions well received and well attended, the arrangement was profitable, it increased the visibility of the CSPG internationally, it allowed

both Societies to offer distinct and complementary programs, and it set the stage for continued equitable partnerships.

2010 included a major change to CSPG's operations. In May 2010, CSPG became the Operator of the Geoconvention: recovery 2011 representing all three Societies – CSPG, CSEG, and CWLS. It will be determined each year, to the end of 2014, whether CSPG or CSEG will be the Operator of the convention. I am proud of the transparency, accountability and opportunities for future development that it presents to all three Societies. The Joint Annual Convention is returning to the TELUS Convention Centre for 2011. This year's chairs understood the need for convention renewal and built an organizing committee that was proactive and tuned to member expectations for innovative technical and networking activities. Their targeted approach resulted in 350 abstracts; a 75% increase over prior joint conventions, and the high profile sessions are organized from an inter-disciplinary perspective. I'm very excited about attending this event to get a preview about how conventions can achieve the next level of performance for delegates and corporate partners.

The CSPG agreed to be the holding Society for dissolution of the Canadian Gas Potential Committee and to explore re-establishing this committee with a broader mandate and more viable long-term structure. As a result, the CSPG is holding the assets in trust (\$299,525) and in accordance with their wishes has made the reports available for sale.

The CSPG Educational Trust Fund, chaired by Claus Sitzler, ended the fiscal year with assets of \$1,158,129 after disbursing \$41,500 for Outreach activities such as EDGEO and CSPG scholarships and awards. Invested assets earned net \$35,700 after investment fees. The Trust grows through the support from members such as yourself and the corporations that hire you. Thank you to all of you for reaching out and supporting excellence in geosciences and outreach activities.

Financially we have better early warning methods to ensure that we can operate at a breakeven – we are a non-profit - and we closed fiscal 2010 with a surplus of \$212,270. Additional budget assurance derives from the decision to spend the preceding years, not the anticipated current years, convention profits. The CSPG could not have achieved this without the efforts of our volunteers and sponsors and strong collaboration with responsible office staff. All combined, the CSPG is back on track to recover from losses of the prior years. The CSPG Educational Trust Fund continues to grow through the support from members such as yourself and the corporate community. Thank you to all of you for reaching out and supporting educational activities to attract our future professionals.

Action Items Going Forward

The largest and one of the most important items moving forward is a thorough review of our By-Laws. Today's world is more complex and individuals and institutions are more demanding. This trend impacts the governance and policies of non-profit societies. We are looking at updating our governance structure, rights of members, ability to formalize alliances, financial structure, intellectual property and digital rights. Therefore, during 2011 the CSPG will go to the membership with recommendations for changes to the By-Laws and we hope to file these during the 2011 calendar year with Revenue Canada.

July 1st, 2011 is also the end of our current lease at the 8 Ave and 6 St location. A special committee has been busy looking for space that provides greater visibility, ease of access, as well as cost effectiveness, for our membership and volunteers. An announcement is expected in the spring of 2011.

I'd like to personally thank each and every Director, committee Chair, committee member, volunteer and office staff member. As mentioned in my December 2010 column, my heartfelt appreciation for your willingness to challenge the status quo, dedication in delivering your programs and for being the difference that has made the CSPG a long-term success.

As you read through the progress made by each Director and their committees, each backed by a dedicated staff person, you will no doubt appreciate how much was accomplished during 2010. These are the people who deserve much of the credit for moving my initiatives forward. Best wishes in 2011 to

President Kirk Osadetz, Vice President Robin Mann and the 2011 Executive Committee for continued success in providing the programs and services that our profession needs to ultimately deliver energy and prosperity with lower environmental impact.

Dr. John Varsek, CSPG President 2010

Finance Report

(Greg Lynch, Finance Director; Darren Aldridge, Assistant Finance Director; Lis Bjeld, CSPG Executive Director)

Overall, financially, 2010 has been a year of moderate shrinkage relative to last year. Both revenue and expenses are down. Revenue has dropped only slightly to \$2,472,911 in 2010 from \$2,588,673 in 2009; whereas Expenses came down more significantly to \$2,291,533 in 2010 from \$2,737,300 in 2009. These improvements in cost-cutting and savings have resulted in an excess in revenues over expenditures (profit) of \$212,270 for the year. This compared to the deficit of \$175,257 in 2009 is a significant turn-around. Expenses are down for all of Technical Programs, Communications, Networking, Outreach, and most notably Operations. This last category has seen a drop from \$956,426 to \$669,459 as a result of a continued focus on reduced spending and improved practices. In other areas gains were seen this year in the Society's investment portfolio, with an unrealized gain of \$35,579 on total investments of \$691,696 for a 5.1% profit. Investments are currently split between equity and fixed-income in a 39:61 ratio. Capital assets, comprising furniture & fixtures, leasehold improvements, as well as computer hardware & software total \$107,506. Some depreciation of capital assets relative to last year results from the normal devaluation of aging equipment, furniture and facilities.

In total to end of fiscal 2010, the CSPG possesses net assets of \$1,344,317. Managing the Society's capital is directed to ensure that necessary funding is in place for the CSPG to undertake its mission and achieve its goals set for the fiscal year. Internally, the Finance Committee monitors the operations through cheque signing, budgets, a capital expenditure approval process and regular periodic reviews of the Society's financial statements. Externally, the Society manages its capital through an independent brokerage house responsible for maintaining the portfolio of marketable investments. The Society's capital is substantially maintained through registrations for programs and courses, dues and fundraising.

Additionally, during the year the Society entered into an agreement with the dissolved Canadian Gas Potential Committee ("CGPC") to hold \$299,525 of cash in trust until another similar Committee is established. If another Committee is not established prior to December 31, 2016, the cash becomes property of the Society to be spent on scholarships, research or outreach programs.

CSPG standardized reporting procedures from committees and created the approval decision matrix.

Convention

Joint Annual Convention

Committee Chair: Tony Cadrin

Committee members: Scott Leroux; David Garner; Andrea Hood; Laurie Ross; Atul Nautiyal; Maggie Malapad; Roy Benteau

GeoCanada 2010 – Working with the Earth Committee Chairs and members

Technical Committee	Name
Steering Committee General Co-Chairs	Mark Cooper; Andrew Holder; John Nieto; Jeff Packard; Ed Ghent; Ian Young; Ollie Benham; Steve Grasby
Technical Program Lead Chair	Larry Bentley
Technical Program Chairs	Regan Palsgrove; Graham Carter; Reigh MacPherson; Keith Dewing; Rajeev Nair; Elisabeth Kusters; Ollie Benham
Technical Program Communications	Dave Clyde
Technical Poster Displays	Darren Singleton
Posters Committee	Dara Welch; Fa-Linn Woollings
Technical – Core Conference	Brian Zaitlin
Core Committee Co-Chair	Rich Harris
Core Committee	Lana Sharp; Pat Jans; Chris Podetz; John Suter
Awards and Judging	Gary Taylor; Sarah Cutten
Organizing Committee Coordinators	Name
Exhibits	Flo Reynolds
Exhibits Committee	Chris McGregor; Craig van Dongen; Darryn Listwan; Judi MacDonald; Wade Whitlow; LaToya Graham
Field Trips/Short Courses	Travis Hobbs
CSPG Con. Ed Co-Chair	Carrie Jeanes
Short Course/Field Trip Coordinators	Juila Baumeister; Debbie Legaspi; Tyrus Bender; Amanda Mitander; Jeffery Packard; Carolyn Relf; Alex McNeil; Rob Raeside; Steve Grasby; Nicole Lehocky; John Fernando; Carrie Jeanes
Finance	Gary Drebit
Marketing (Media)	Laura Brick
Public Outreach	Fran Haidl; Greg Lynch
Society Meetings	Lisel Currie
Special Events	Natalie St. Hilaire; Kristi Gartner
Sponsorship	Brian Kulbaba
Volunteers at large	Val Topolniski

The GeoCanada 2010 Convention, held at the Calgary Stampede BMO Centre from May 10 – 14, 2010, was a success both in terms of attendance and finances. This once in a decade event involved a wide spectrum of the geoscience organizations as profit sharing associations and the result was a highly diverse technical program and provided great networking opportunities. GeoCanada 2010 reached 4,622 attendees, exhibitors, and sponsors. This was also the first year for the Earth Sciences for Society (ESfS) exposing 1,769 high school students to geosciences displays on site.

GeoCanada 2010 saw total revenue of \$2,077,310.78 which is comprised of registration fees, sponsorship and exhibitor fees. Expenses came in at \$1,432,792.05 which left CSPG (36.2% interest) with a profit of \$233,315.67.

The participating societies in GeoCanada 2010 were The Canadian Society of Petroleum Geologists (CSPG); The Canadian Society of Exploration Geophysicists (CSEG); The Canadian Well Logging Society (CWLS); The Geological Association of Canada (GAC); The Mineralogical Association of Canada (MAC); and the International Association of Hydrogeologists - Cdn. National Chapter (IAH-CNC).

It takes a lot of people with passion and dedication to run a successful convention. There are too many to mention here but thank you to each and every one of you. CSPG would like to especially thank Tony

Cadrin, Committee Chair of the Joint Annual Convention Committee; Mark Cooper, CSPG General Chair 2010 GeoCanada Convention (2010) and the Technical Committee Chairs and Organizing Committee Coordinators who steered GeoCanada 2010.

CSPG will be teaming up with the AAPG for their Annual Convention and Exhibition (A.C.E) in 2016.

Program Report

(Scott Leroux, Program Director; Brett Norris, Assistant Program Director)

2010 was an excellent year for Technical Programs. For conferences, the CSPG were key participants in two world class events in 2010. Both GeoCanada and AAPG International Convention and Exhibition (ICE) were held in Calgary, and the CSPG along with its strong volunteer base and membership help make them both highly successful. As part of the ICE conference the CSPG was responsible for putting on a very popular International Core Conference. This conference was so successful that there are plans on keeping as a regular fall event.

The Technical Divisions had another strong year, and as part of the technical revitalization plans we have created a new position of Technical Division Chair which we are in the process of filling. The new position will help oversee this broad portfolio and provide a better link to the CSPG executive. We are also in the process of re-launching both the GeoFluids and Sedimentology Divisions after a short hiatus and are currently searching for a chair to revamp the Emerging Petroleum Resources Division (Unconventional).

The Technical Luncheon series saw another full year of excellent world class presentations. We would like to thank the committee and Chris Seibel who after many years on the Luncheon committee, most recently as the committee chair, has moved into the CSPG Executive Committee as Services Director.

In 2010 the Continuing Education committee (short courses and field trips) were extremely busy with two major conferences and did a tremendous job running a wide variety of professional development opportunities. The biggest change implemented in 2010 by the CSPG Executive Committee has been a change in fee structure, which is now designed to benefit both Instructors and the CSPG members by encouraging a greater variety of instructors, courses and field trips, and at the same time give more control, flexibility, and remuneration to the instructors.

The 2010 CSPG Assistant Program Director Brett Norris and Program Director Scott Leroux would like to thank all of the volunteers, chairs and committee members for all of your hard work and dedication this past year.

Gussow Geoscience Conference 2009

Conference Chair: Steve Grasby

Technical Chair: Steve Larter

Committee Members: John Cody, Martin Fowler, Ian Gates, Stephen Hubbard, Dale Leckie, Mike Ranger, John Suter

The theme for the 2009 Gussow Geoscience Conference was *Engineering Sustainable Oil Sands Development*. The all-inclusive conference brought together geoscientists, engineers, environmental scientists, regulators and policy makers worldwide who work in the complex technical and environmental issues related to energy recovery from heavy oil and bitumen deposits in Canada. The conference focused on the energy environment interface and offered an opportunity to better understand the complex impact of geological heterogeneity in bitumen reservoirs on feasible routes to sustainable energy recovery from heavy oil and bitumen reserves.

The Gussow conference was held once again at the Banff Centre October 5 – 7, 2009. There were 97 registrants in total, including 38 speakers and six poster presenters.

The five themes of the conference and their respective chairs are as follows:

- Routes to Cleaner Energy Recovery from Heavy Oil and Bitumen Resources – The Environmental, Regulatory, Technology and Capital Credit Crunch (David Brett, *Gowling Lafleur Henderson LLP*)
- The Origin and Prediction of Key Rock and Fluid Heterogeneities in Oil Sands, Carbonate Bitumen, and Heavy Oil Resources (Emmanuelle Piron, *Husky Energy & Dale Leckie, Nexen Inc.*)
- Impact of Geological Heterogeneities on Recovery Processes and Engineering Solutions to more Sustainable Energy Recovery from Oil Sands (Ian Gates, *University of Calgary*)
- Water Management (supply, disposal) during Heavy Oil/Bitumen Production (Steve Grasby, *Geological Survey of Canada*)
- Carbon Management During Heavy Oil/Bitumen Production (Robert Mitchell, *Schlumberger Carbon Services*)

A field seminar to Willow Creek called *Impact of Inclined Heterolithic Stratification on Oil Sands Reservoir Delineation and Management, Willow Creek, Alberta* took place on the Sunday before the conference and was led by Dr. Steve Hubbard, Dr. John Suter, Dr. Dale Leckie and Mark Dahl.

CSPG thanks the following sponsors of the event: APEGGA (\$5,000), Schlumberger (\$5,000), Oil Sands Imaging (\$1,500), Gushor Inc. (\$500) and Nexen Inc. (speaker gifts and printing of field trip handbooks).

Technical Luncheons

2009/2010 Committee Chair: Chris Seibel

Committee members: Riona Freeman; Ryan Mohr; Tim Bergen

Technical Luncheon Advertising: Norbert Alwast

The Technical Luncheon committee hosted 17 talks from September 2009 to August 2010 with average ticket sales of approximately 515 per luncheon. The luncheon topics varied widely from international to local interest and highly technical to general interest.

The committee would like to acknowledge its speakers from 2009/2010 that provided a diverse and high quality technical program throughout the year. Special thanks go to the AAPG Distinguished Lecture Program for providing excellent visiting speakers. We would also like to extend our appreciation to geoLOGIC systems ltd. for sponsoring the Technical Luncheon webcasting program again this year, and thank you to our corporate sponsors, CSPG office staff, and CSPG member volunteers. The Technical Luncheon program would not be possible without your ongoing support.

All of this season's luncheons were hosted at the Calgary TELUS Convention Centre and were catered by the Marriott Hotel. The September 2009 to November 2009 luncheon talks were webcasted by Ron MacLean of Wild Horse Entertainment Inc. Beginning in 2010 the CSPG office staff assumed responsibility of the webcast duties. During 2009/2010, 11 of 17 luncheons were web-casted. APEX Audio Visual Services continues to provide technical support for our luncheons.

Many exciting talks are currently being planned for the 2010/2011 season and we hope to continue to deliver a variety of excellent presentations to the CSPG membership.

Over the past year, one of our longer serving committee members, Chris Seibel, has moved on to be the Service Director of the CSPG Executive Committee. We would like to thank Chris for all his years of excellent service and wish him the best of luck in the future.

2009/2010 Technical Luncheons

Date	Presenter	Title	Ticket Sales
September 15, 2009	B.J. Rostron	Fingerprinting Formation-Waters Using Stable Isotopes: Applications to Petroleum Exploration and Production	436
September 24, 2009	John Harper	Avalanches: Turbidity Current Analogues that Kill	437
October 13, 2009	John Spray	Impact Cratering on Planet Earth: Armageddon, Oil and Gas	525
October 27, 2009	Stephen T. Johnston	Cordilleran Myths and the Origin of the Rocky Mountain Fold and Thrust Belt	594
November 12, 2009	Michael A. Cooley	The Structural, Thermal, and Fluid Evolution of the Livingstone Range Anticlinorium, and its Regional Significance to the Southern Alberta Foreland Thrust and Fold Belt	348
November 23, 2009	Tom Brent	Reflection Seismic Data from Legacy Hydrocarbon Exploration of Cenozoic and Older Basins of the Canadian High Arctic	377
December 15, 2009	Dale Leckie	Geoscience of one of the largest integrated SAGD operations in the world – a Case Study from Long Lake, Northeastern Alberta	907
January 12, 2010	Alan R. Hildebrand	A Bright Multiple Fragmentation Fireball and Meteorite Fall at Buzzard Coulee, Saskatchewan, Canada, November 20, 2008	518
January 21, 2010	Dave Russum	Unconventional Gas Reservoirs: How Important are they to North America?	584
February 8, 2010	Bill Martindale and Noel James	Reefs Under Stress – Bermudian Reefs and their Devonian Counterparts	564
February 23, 2010	Larry Lane	Phanerozoic Structural Evolution of Eagle Plain, Yukon	422
March 9, 2010	Jerry Osborn	The Disinterested Observer's 50-minute Guide to the Global Warming Debate	687
March 23, 2010	Jen Russel-Houston & Alan Abrams	How an Underground Approach to Commercial Bitumen Development of the Grosmont Formation Could Maximize Profitability and Minimize Environmental Footprint	528
April 15, 2010	Stephanie Schwabe	The Biogenic Hypothesis: Microbial Acids and Gas as an Explanation for the Dissolution and Forming of Pores and Caves in Limestone	361
April 27, 2010	Harris Cander	Granite to Grass Roots: Understanding the Geologic History of Unconventional Resource Basins from Bottom to Top.”	668
May 27, 2010	Toni Simo	Isolated Carbonate Platforms and Mounds (ICPM): Initiation, Growth and Demise	480
June 8, 2010	Lynn Hughes	Dilemmas of Trust	333

Continuing Education

Committee Members: Carrie Jeanes; Dave Kisilevsky; Debbie Legaspi; Samantha Etherington; Tyrus Bender; Amanda Mitander; Julia Baumeister; Tina Donkers; Lana Sharp; Andrew Riben; Ryan Cook; Scott Leroux; Brett Norris.

Field Seminars:

Committee Chair: David Kisilevsky

This year the CSPG ran 10 field seminars at the GeoCanada convention, and a Bakken field seminar outside of convention. The two most popular field trips offered were: *Contrasting the Reservoir of Braided vs. Meandering Depositional Systems* and *A Revised Regional Stratigraphy and Stratigraphic Architecture for the Horseshoe Canyon Formation: Outcrop and Subsurface*. The attendance ranged from 7-15 people per field seminar. A total of 120 participants joined the CSPG in field seminars this past year.

Short Courses:

Committee Chair: Carrie Jeanes

The CSPG ran 17 short courses at the GeoCanada convention ranging from one to three days. This year outside of convention the CSPG ran a short course called *Horizontal Well Drilling and Hydraulic Fracturing in Tight Sands*, which was well received. The most popular courses were: *Shale Gas Critical Fundamentals, Techniques and Tools for Exploration Analysis; Clastic Facies and Depositional Environments in Core; and Risk and Uncertainty Analysis for the Assessment of Unconventional Resource Plays*. The attendance ranged from 6-30 people per short course. There were 301 participants engaged in courses this past year.

In the 2011 fiscal year, AAPG ICE ran in September, 2010 and had a number of successful field seminars and short courses.

In the 2011 fiscal year, the CSPG is aiming to improve the design of the website, providing faster updates and improved content that will make it easier for members to find and register for training. The CSPG Continuing Education Committee remains focused on continuing to attract top-notch instructors to provide relevant, high quality courses and field seminars that will benefit the membership. The CSPG Continuing Education committee is also working to improve our instructor fee structure to benefit both instructors and the CSPG.

Thank you to our sponsors and our instructors for their time, energy and enthusiasm.

Technical Divisions

Core and Sample Division

Committee Chair: Doug Hayden

During 2010 the Core and Sample Division did not hold any meetings, but plan to meet in 2011 to discuss the reliability of oil shows in drill cuttings, in particular the problems with false shows in wells drilled with invert mud systems, and the problem of solvent contamination in "cut" fluorescence examination under U.V. light.

Our division again supplied volunteers to APEGGA's bi-annual Open House at the Canmore Museum and Geoscience Centre. The Open House is a well-advertised event that invites people in the Canmore-Banff area to bring in their "pet" rocks for identification by Professional Geologists.

This event is always well attended and allows our members to interact with future Geoscientists about future careers in Geology.

To join the division or just stay informed of future meetings or talks, please contact the chair, Doug Hayden at (403) 615-1624 or haydengeo@telus.net.

Environment Division

Committee Chair: Andrew Fox

Committee members: Emmanuelle Piron; Ed Mathison; Karen Bradshaw; Mark Rabin.

The Environment Division held two lunchtime talks in 2010. Thanks to Yale Properties and Oxford Properties for providing venues for our talks. I would like to extend sincere thanks to the speakers for volunteering their time and effort. To all those who attended the presentations and provided lively and insightful discussions, thank you. Technical and logistical support for the division talks was provided by MEG Energy Corp.

Date	Presenter	Title
February 2010	Dan Balaban (Greengate Power Corporation)	Wind Energy and a Vision for a Prosperous and Clean Alberta
December 2010	Shawna Mattison (Pembina Pipeline Corporation)	Fish friendly development

Basin Analysis and Sequence Stratigraphy Division

Committee Chairs: Mark Caplan and Steve Donaldson

Committee members: Rob North; Gordon Stabb.

We have formed a committee of four keen volunteers, and would like to extend many thanks to the other two committee members, Rob North and Gordon Stabb, for their continued encouragement and invaluable support.

Thanks are also expressed to ConocoPhillips for permitting us to host our noon-hour talks at their Gulf Auditorium.

Over the past twelve months of 2010 BASS has hosted two excellent technical presentations with an average attendance of forty people. We wish to thank the authors for donating their valuable time and providing the geological community with access to new and innovative research and methods.

These talks were:

Date	Presenter	Title
February 4, 2010	Jim Henderson (Associated Geosciences Ltd.)	Airborne Geophysical Surveys for Oil Sands Exploration and Development
November 2, 2010	Joel Shank (University of Western Ontario)	Yo-Yo Eustasy and Teeter-Totter Tectonics in a Muddy Basin - Cardium Formation, Southern Alberta

We strive to provide members of the CSPG with the high-quality talks that they expect. In order to continue this service we are always looking for volunteer speakers. If interested, please call either Steve at 403-766-5534 or Mark at 403-817-2603. Your support is greatly appreciated.

Paleontology Division

Committee Chair: Philip Benham

Paleontology Division Talks are jointly sponsored by the CSPG Paleontology Division, Alberta Paleontological Society and the Mount Royal University Earth Sciences Department. The Paleontology Division held eight talks in 2010. Attendance varied from 20 to 63 people. Also held in conjunction with

the Alberta Paleontological Society and Mount Royal University was a weekend long symposium in March 2010 where an additional seven lectures were given and numerous posters were on display.

This free event attracted approximately 225 people including members of the general public and provided opportunity to interact with those researching in the field of paleontology. I want to thank MRU for their free provision of facilities and all the volunteers (including Jon Cox, Mike Clark, Wayne Braunberger, Mona and Vaclav Marsovsky, Dan Quinsey, Howard Allen, Harold Whittaker and Keith Mychaluk) who helped set up audiovisual, provide coffee and organize the events.

To join the division, volunteer, give a lecture or just stay informed of future meetings, events or talks, please contact committee chair, Philip Benham at (403) 691-3343 or email Philip.Benham@shell.com.

A list of the 2010 lectures and events are provided below.

Date	Presenter	Title
January 15, 2010	Dr. Jeremy Fox (University of Calgary)	Darwin's Origin of Species: A Guided Tour
February 19, 2010	Leslie Eliuk (Geotours)	A Tale of Two Reefs: Coral reefs versus sponge reef mounds from the Western Atlantic Jurassic-Cretaceous shelf margin
March 13-14, 2010 Symposium: Paleo 2010	Craig Dylke	New Zealand's Fossils: Remnants of a Lost Continent
	Danielle Fraser, Jordan Mallon, Rob Furr, and Jessica M. Theodor (University of Calgary)	Using High Dynamic Range Imaging in Vertebrate Paleontology
	Lisa Bohach (FMA Heritage)	The Art, Culture and Science of Iniskims
	Darren Tanke (Royal Tyrrell Museum)	Reconstruction of Scows Used in Early Paleontol Research and a Commemorative Expedition Plan 2010.
	Marianne Collins (ArtoFact. History)	Mystery and Baywatch: Illustrating the Animals of the Burgess Shale
	Scott Persons (University of Alberta)	Changing the Face of Tyrannosaur Rear Ends: Tail Muscle Reconstruction in Theropod Dinosaurs
	Ariana Carabajal, Museo Carmen Funes (Argentina) and Philip Currie (University of Alberta)	Cranial endocast of the Jurassic theropod <i>Sinraptor dongi</i>
	Victoria Arbour, Mike Burns (University of Alberta)	My ankylosaur is a big dumb tank! Ankylosaur reconstructions in the scientific literature and popular media
	Philip Currie (University of Alberta)	Dinosaurs in Science and Art
	Scott Sampson, (Utah Museum of Natural History, University of Utah)	Dinosaurs of the Lost Continent of Laramidia
	Jason Anderson (University of Calgary)	Permian Vertebrate Fossils from North Central Texas
	Brian Cooley	Make-a-saurus

April 16, 2010	Vaclav Marsovsky	A Fieldtrip to the Mesozoic South Coast of England
May 14, 2010	Myo Myint	Systematic Ichnology: An Example of <i>Psilonichnus quietis</i> Myo Myint 2001, exposed at the Paleogene Iwaki Formation, Shiramizu Group, Joban Coal Field, Japan
June 22, 2010	Wayne F. Braunberger	Molluscan Biostratigraphy of the Cardium Formation Alberta Foothills and Adjacent Subsurface
Sept 17, 2010	Open House and Fossil Clinic	
October 15, 2010	Dr. L.V Hills, B. Kooyman (University of Calgary), S. Tolman, Cardston and P. Mcneil (Steppe Consulting)	The Wally's Beach Site: A Paleontological-Archaeological Treasure Trove."
November 19, 2010	Dr. Takuya Konishi (Royal Tyrrell Museum of Paleontology)	Studying Mosasaurs Far and Deep: The Evolution of the Swimming Style in the Last Giants of the Mesozoic Oceans
December 10, 2010	Vaclav Marsovsky	Mammal trackways in Toadstool Geological Park, Nebraska

International Division

Committee Chairs: Trent Rehill and Robert Potter

2010 was another building year for the International Division. First, we would like to thank all of our speakers for their excellent talks in 2010; without them, "no speakers, no talks". Secondly, we would like to thank our generous sponsors for a fine year of International Division support: EnCana and staff for use of the meeting facilities and Geochemtech Inc. for providing refreshments. Due to support from our speakers and sponsors, over the last twelve months we have hosted 9 presentations with an average attendance of over seventy-five people. Our new lunch hour format of a short "Rock Shots" warm-up followed by a "Main Event" talk has played a significant part in our steadily increasing attendance. Our attendee demographic range has also widened, spanning university students to "35 year" International G&G veterans. Two social events (the annual "Xmas Socializer" and the "Season Ender") were successfully held and well attended at Buzzards. We would like to extend our thanks to Sensor Geophysical, Schlumberger, IHS, Gore Survey's and Buzzards for their continued support of the International Division. The International Division now maintains a Facebook page ("CSPG International Division") to post upcoming talks, discussions and networking forums. You can contact us via cspginternational@yahoo.ca for more info.

A list of the 2010 talks is below.

Date	Rock Shots Presenter	Main Presenter	Title
February 12, 2010	Dr. John D. Harper (Geological Survey of Canada)	Miles Leggett (GeoGlobal Resources Inc.)	In Search of a New (Old) Play in the Infracambrian Petroleum System in the Bikaner Basin in Rajasthan
March 10, 2010	Jason Milroy (KC Wellsite)	Dr. Gary L. Prost (ConocoPhillips Canada)	Tectonics and Hydrocarbon Systems of the East Gobi Basin, Mongolia
April 21, 2010	Ryan Macauley (University of Calgary)	Tako Koning (Tullow Oil, Luanda Angola)	The Geology, Geophysical Definition and Reservoir Characteristics of Oil & Gas Fields Producing From

			Basement Reservoirs: Examples from Asia - Viet Nam, China & Indonesia
May 19, 2010	Peter Jones (International Tectonic Consultants)	Jerry Sykora (Talisman Energy)	Papua New Guinea (PNG). Potential in an Underexplored Foreland Setting
June 16, 2010		Dr. Trent Rehill (Kulczyk Oil Ventures)	Late Miocene Submarine Fan Seismic Geomorphology and Reservoir Architecture Revealed by 3-D Seismic and Visualization, Deepwater Toe-Thrusted Domain, NW Borneo
September 16, 2010		Eric Lyngberg (Petrominerales); Eric Furlan (Parex Resources); Jeff Collins (Gran Tierra Energy); Alastair Hill (Suroco Energy)	How to Leverage Canadian "Content" to Succeed in the International Environment
October 13, 2010	Dennis Meloche (Devon Canada Corporation)	Ruikun Liu (Independent Consultant)	The Putumayo Basin of SW Colombia: A Foreland Basin Sitting on Top of a Rifted Terrane
November 17, 2010	Dr. Mike Bromley (RPS Energy)	Warren Workman (CGX Energy Inc.); Phil Harms (GEOSEIS Inc.)	The Equatorial Atlantic Upper Cretaceous Petroleum System Offshore Guyana-Suriname Basin, South America - 2010 2011 Drilling to Evaluate the Extension of Recent West Africa Oil Discoveries
December 8, 2010		Bill Skinner (Sunbold Ltd.)	Mulichinco Formation, Western Neuquén Basin, Argentina

Geomodeling Division

Committee Chairs: Weishan Ren and David Garner

Committee members: Peter Boyle; Tom Cox; Ned Etris; Blair Mattison; Tim McCullagh

We have an incredible committee of seven keen volunteers.

The 2010 Geomodeling Division talks are below:

Date	Presenter	Title
March 31, 2010	Olena Babak (Total E&P Canada Ltd.) Co-Authors: Pierre Bergey, Virginia Mayo, and Denis Druesne, (Total E&P Canada Ltd.)	Trend Modeling for SAGD application at Surmont
September 7, 2010	David Garner (Statoil Canada Ltd.)	"Fundamental Geostatistics in Reservoir Characterization
November 24, 2010	Khaled Benzaoui (Schlumberger)	Reservoir Quality Function "RQF" for SAGD geo-model ranking and well pair elevation optimization

Structural Geology Division

Committee Chair: Darcie Greggs

Committee members: Patrick Fothergill; Jean-Yves Chatellier; Adriana Taborda.

We formed a committee of three additional volunteers, Jean-Yves Chatellier, Patrick Fothergill and Adriana Taborda, whose energy and enthusiasm are greatly appreciated. The Structural Geology Committee thanks Shell Canada Energy for their ongoing support in providing us with a talk venue for the last two years. We now move from gabbro facing to granite facing and Husky Energy is providing the venue for our 2011 talks. HEF Petrophysical continues to provide much-enjoyed refreshments. We greatly appreciate this corporate support!

Over the last twelve months we have hosted eight presentations with an average attendance of about 40 people and approximately 20 people participated in the fall field trip.

The 2010 Structural Geology Division Talk details are below:

Date	Presenter	Title
February 11, 2010	Bernard Guest (The University of Calgary)	Low Temperature Thermochronology as a Tool for Dating Deformation and Constraining Thermal Evolution in Sedimentary Basins: A Case Study from the Arabia-Eurasia Collision, Iran
March 5, 2010	Josgre Salazar (University of Calgary)	Geometry and kinematics of a triangle zone in the Central Alberta Foothills
May 6, 2010	Philip S. Simony (University of Calgary); Sharon D. Carr (Carleton University)	Continuity of Rocky Mountain Thrust Systems with Zones of "In-Sequence" Mid-Crustal Flow
September 9, 2010	Freddy Corredor (Harvard University); Claudia Rosa Posada (Independent Consultant Bogotá D. C, Colombia); Fernando Munar (Independent Consultant - Calgary)	Structural Analysis of the Neiva Fold-and-Thrust Belt, Upper Magdalena Basin, Colombia: New Opportunities for Petroleum Exploration in a Mature World-Class Hydrocarbon Province
September 25, 2010 (Annual Structural Geology Field Trip)	Field Trip Leader: Melissa Newton (University of Calgary) Speakers: Zeev Berger, Michelle Boast and Martin Mushayandebvu (Image Interpretation Technologies Inc.)	Predicting "Sweet Spots" in the Emerging Unconventional Oil Plays of the Deep Basin and Southern Peace River Arch, Alberta." Part 1: Thursday, October 7, 2010 Part 2: Thursday, November 4, 2010
December 9, 2010	Scott McLellan (Talisman Energy)	Folded Permo-Pennsylvanian carbonates in the N.E. British Columbia Thrustbelt

Sedimentology Division

Committee Chair: Bryan Gill

The division has been informally co-chaired by Bryan Gill of BP (Bryan.Gill@bp.com). Bryan mostly took care of arranging the presentation room in the BP Tower, and doughnuts and coffee from Tim Hortons.

Date	Presenter	Title
January 14, 2010	Rick Schroder (University of Calgary)	Transtensional fault networks: similar fault geometries in highly variable tectonic settings

Services Report

(Ayaz Gulamhussein, Services Director; Richard Thom, Assistant Services Director)

Membership

At the end of fiscal year 2009-2010, CSPG had the following number of members in six different categories:

<u>Membership Type</u>	<u>Number of Memberships</u>
Regular	2,661
Associate	327
Emeritus	129
Honourary	42
Student	594
Corporate	26

Student Membership took a big leap from the previous year as free e-student memberships were introduced, giving students from all over the world access to CSPG.

CSPG has approximately 250 active volunteers.

Awards

In 2010, the 2009 CSPG Awards were presented in a format different from previous years. The 2010 CSPG Awards Ceremony took place Monday, May 10th at the Boyce Theatre (Calgary Stampede Grounds) during the GeoCanada 2010 Convention. For the first time this event was open to the public and included Service and Volunteer awards. The 2009 award recipients, award committee chairs, various members of the CSPG Executive Committee, delegates from GeoCanada 2010 and guests met to celebrate these achievements. The 2009 awards were presented by President Dr. John Varsek, with assistance from Assistant Services Director (Richard Thom) and award committee chairs (Colin Yeo, John Hogg, Graeme Bloy, Margot McMechan, and Ian Kirkland). As is the tradition, the Honourary Membership Awards were presented at the Annual Long Time Members Reception Tuesday, May 11, 2010.

Award	Committee Chair	Committee Members	Award Recipient
Stanley Slipper Gold Medal for Outstanding Career Contributions to Oil and Gas Exploration in Canada	John Hogg	Peter Harrington and Clint Tippett	Michael Rose
RJW Douglas Medal for Outstanding Contributions to the Understanding of Sedimentary Geology in Canada	Margot McMechan	Peter Aukes, Dave Drover, Ian Knight, Bob Thompson, Hank Williams	Dr. James Dixon
Honourary Membership Award for Distinguished Service to CSPG	Don Keith	Ashton Embry	Dr. Ashton Embry, John Maher, and Dr. Rick Young

Link Award for Best Presentation – Technical Luncheon Series	Lloyd Freeman and Co-Chair Michele Innes	Andreas Bayer, Steve Minions, Claude Ribordy, Chris Seibel, Angie Simpson, Tammy Wolcott	Dr. Jon Noad for his June 8, 2009 talk entitled “The Sedimentology of Ancient Mangroves: Swamped with Hydrocarbon Potential
Medal of Merit for Best Paper Related to Canadian Petroleum Geology	Ian Kirkland	Dan Edwards, Adam Hedinger, Wim Jalink, Peter Kouremenous, Clint Tippett and Heather Wright	Dr. Daniel Ross and Dr. Marc Bustin for their paper: “Characterizing the shale gas resource potential of Devonian-Mississippian strata in the Western Canada Sedimentary Basin: Application of an integrated formation evaluation.”

The 2009 volunteer award recipients are as follows:

President’s Special Recognition Award for Significant and Sustained Contributions to Canadian Petroleum Geology

Nominator: Colin Yeo

Award Recipient: Dr. Gordon Williams

President’s Award for Outstanding Service by a CSPG Member

Nominator: Graeme Bloy

Award Recipient: Dr. Tony Cadrin

H.M. Hunter Award for Long-term Service in a Variety of Capacities

Committee Chair: Craig Lamb

Co-Chair: Gerry Reinson

Award Recipients: Peter Harrington and Peter Hay

Tracks Award for Members Who Have Set New Standards of Excellence

Award Recipients: Norbert Alwast, Astrid Arts, Mike Cecile, Travis Hobbs, Ben McKenzie, and Chris Seibel

Service Awards for members who have contributed to the welfare of the Society through committee or other volunteer work; are generally awarded for five to ten years of service on a committee, service on multiple committees, or service of retiring committee chairs.

Award Recipients: Philip Benham, Peter Boyle, Mark Caplan, Barrie Dargie, Foon Der, Ian DeWolfe, Steve Donaldson, Ned Etris, Andrew Fox, Steve Grasby, Darcie Greggs, Denise Hodder, Michele Innes, William (Jamie) Jamison, Peter Kouremenos, Mike LaBerge, Therese Lynch, Blair Mattison, Jessie Mitton, Guillaume Nolet, Claude Ribordy, Eileen Scott, Darren Steffes, Martin Teitz, Dick Willot and Colin Yeo.

Volunteer Awards for members who have demonstrated significant service to the Society through volunteer work for at least two years of service on a committee; recognizing committee members who have demonstrated commitment to the Society’s needs.

Award Recipients: Linden Achen, Tracy Allen, Mitch Allison, Pratt Barndollar, Megan Barefoot, Julia Baumeister, Tim Bergen, David Caldwell, Allan Carswell, Penny Colton, Andrew Cook, Tom Cox, Tina Donkers, Jennifer Dunn, Markus Ebner, Dan Edwards, Vince Ekvall, Samantha Etherington, Riona Freeman, David Garner, Chad Glemser, Ernie Greenwood, Aaron Grimeau, Simon Haynes, Adam Hedinger, Dawn Hodgins, Wim Jalink, Carrie Jeanes, Shawn LaFleur, Steve Larter, Denis Lavoie, Debbie Legaspi, Erin Linley, Robert MacNaughton, Cory MacNeill, Tim McCullagh, Dennis Meloche, Ryan Mohr, Marianne Molgat, Jon Noad, Megan O’Reilly, Regan

Palsgrove, Brenda Pearson, Kyla Poelzer, Mark Radomski, Indy Raychaudhuri, Weishan Ren, Mike Rogers, Kevin Root, Sandra Rosenthal, Justine Sagan, Claus Sitzler, Heather Slavinski, Tom Sneddon and Clint Tippet.

History and Archives

Committee Chair: Clint Tippet

The History and Archives Committee was relatively inactive over the last year. Initial steps have been taken in an effort to establish policies for the routine management of the Society’s historical and ongoing records in conjunction with the Glenbow Archives where these records are maintained. A strong informal relationship exists with the Petroleum History Society whose events are attended by many CSPG members. A more formal affiliation may develop in the future.

Volunteer Management

Committee Chair: Martin Teitz

2010 welcomed Martin Teitz as the new chair of the Volunteer Management Committee. New strategies will be implemented in the upcoming year to keep better track of volunteers and ensure that they are being properly recognized for their service.

Photographic Services

CSPG has had many wonderful photographers for our events this year such as: Vic Panei, Penny Colton, Dave Hills, Raluca Grosos and Kristy Weiss. Chair of Photographic Services Vic Panei has stepped down after serving the committee for 36 years.

Classic Golf

Committee Chair: Mike LaBerge

Committee members: Andreas Georgousis; Bob Earle, Brenda Pearson; David Grinde; Foon Der; Frank Pogubila; George Ardies; George Bowley; Gerald Wendland; James Ablett; Mike Swain; Randy Smith; Richard Chisholm; Scott Thain.

Rain could not dampen the successful 50th anniversary celebration at Elbow Springs Golf Club that hosted 160 geologists, geophysicists and sponsors. Contestants from 20 flights competed for three days, pursuing the coveted trophies and associated bragging rights until next year. Congratulations to the all the flight winners and especially Daniel Gee who emerged as the 50th Anniversary Champion. On Friday the Chuckwagon team of Dean Duncan, George Bowley, Foon Der and Gareth Martin bested a field of 30 teams. The awards banquet was held at the Sheraton Eau Claire Hotel where dinner, dancing, trophies and draw prizes filled the evening. The audience was enraptured by the always entertaining Bill Mooney and the auctioneering of Tom Kelly, who conducted a live auction of Flames tickets the proceeds of which were donated to Agape Hospice. Jim Kirker who was President of the ASPG (predecessor of the CSPG) in 1960 related how he helped initiate the first tournament in 1961. Howard Stafford displayed his 1985 (25th Anniversary) winning golf bag. Guess what, Howard won a golf bag cover this year...karma! Bob Earle, Bob Sephton and Fred Turner were winners of the vacation trips to Mexico, New York and Maui, respectively.

The CSPG tournament committee extends our sincere thanks and appreciation to each and every one of the 56 sponsors whose valued support made this a truly commemorative event.

Diamond Sponsors	Emerald Sponsors	Platinum Sponsors
geoLOGIC systems ltd	GeoStrata Resources	AGAT Laboratories
Little Rock Document Services	IHS Energy	Athabasca Oil Sands
Schlumberger Canada	Macquarie Tristone Capital	Baker Atlas Wireline
	RBC Dominion Securities	Belloy Petroleum Consulting
	Weatherford Canada Partnership	CB Securities
	Wildcat Scouting Services	Divestco Inc.
		Energy Navigator
		Fugro Data Solutions

		GLJ Petroleum Consultants
		Halliburton
		MJ Systems
		Painted Pony Petroleum
		Pason Systems
		ProGeo Consultants
		Recon Petrotechnologies
		RPS Energy
		Ryan Energy Technologies
		Sproule Associates
		West Canadian

A special thank you goes out to Schlumberger Canada, who has sponsored all 50 years of the Classic Golf tournament. There were an additional 26 sponsors whose valued contributions will also be recognized when the new registration forms become available in March 2011.

Our charity partner, the Salvation Army Agape Hospice received a cheque for \$6790 from the Tournament. This amount was topped up by separate donations from corporate and individual sponsors such as RBC Dominion Securities; ProGeo Consultants; Painted Pony Petroleum; Knowledge Energy and geoLOGIC systems Ltd. enabling the final total to surpass \$ 9000. Chuck Boreski was a long-time supporter of the tournament and was a guest of Agape Hospice in late 2009. A memorial plaque for Chuck was placed on the flight trophy which he won at the 2009 Tournament. The committee thanks all sponsors and participants for making this event a memorable Golden Anniversary. Next year is the start of another fifty!

The Match Play results are as follows:

Flight	Flight Winner	Runner-Up
1	Daniel Gee	Scott Oldale
2	Ken Hayes	Mike Bell
3	Tom Heathcott	Rick Kunimoto
4	Steve Rosenstein	Steve Perry
5	Jim Hunter	Gord Yeo
6	Norman Farmer	Cliff Herman
7	Brian Kroeker	Brian Fyke
8	Ted Herman	David Harris
9	Randy Mitchell	John Halbauer
10	Bob Rokosh	Deno Adams
11	Bob Sullivan	Earl Hawkes
12	Jeff Boissonneault	Matt Earle
13	Doug Van Helden	Chris Hicks
14	Terry Phillips	Bob Mummery
15	Randy Smith	Cal Gabel
16	Ian Nicholson	Indy Raychaudhuri
17	Jeorg Wittenberg	Dave Shklanka
18	Richard Klippenstein	Ken Mitchell
19	Don Zver	Don Hoyda
20	Jocelyn Lampron	Darryl Derouin

The Chuckwagon results are as follows:

Rank	Team Captain	B-player	C-player	D-player	Score
1	Dean Duncan	George Bowley	Foon Der	Gareth Martin	-9.0
2	Bob Lee	Roger Dueck	Bob Leslie	Mike Murphy	-8.6
3	Dennis Campbell	Warren Cook	James Ablett		-7.8
4	Richard Chisholm	Neil Tice	David Grinde	Rick Kroeker	-7.6

Mixed Golf

Committee Chairs: Brenda Pearson and David Caldwell

Committee members: Dick Willott; Norm Hopkins; Kevin Muir; Darin Brazel; Hugh Wishart; Penny Christensen

Rule number 1 is before you roast someone you should make sure they are coming to your event. After twenty years of service to the CSPG Mixed Golf Tournament, the committee decided to roast Dick Willott for his hard work and dedication after retiring this past year. Only thing was, Dick was pulled away from the tourney on business for Boyd Petrosearch and no one knew. Way to go Dick! Twenty years and you don't miss one tourney except for the one where you are going to get roasted. Our huge poster of Dick on Hole 8 almost blew away in the wind but then we should have known that Dick was full of hot air. Here's to blowing in the wind Dick. Thanks for all the great years.

Despite the poor Calgary weather all summer long this year, we still managed to get in a decent round of golf at the 21st annual CSPG Mixed Golf Tournament this year. The day started out a little cool at about 6-7 degrees Celsius but gradually warmed up to a balmy 15 which was better than most days this past summer.

Once again, Lynx Ridge hosted a great tournament and the course conditions were exceptional. This made it easier for more of the hackers out on the course. That is why we are known as the fun tournament although there is still a bit of competitive edge with some teams.

The winning team for gross score was the team of David Caldwell, Jimmy Dowhaniuk, Travis Brookson and Heather Wright. The winning team for best Net Score was Mike Swain, Victor Verkhogliad, David Cheeseman, and Chad Nelson.

The most honest team this year went to Jim William, Antione Habib, Drue Robinson, and Jill Page.

Thanks again to Canada Brokerlink who have been our tournament sponsor for all 21 years. Other big sponsors who returned to the event again this year were Tucker Wireline and GLJ Petroleum Consultants. Without generous sponsors like these, the tournament would not be such a huge success. We had the most sponsors ever on Par 3's this past year as well. IHS sat on Hole 5 and greeted players with drinks and snacks. Roke Technologies and Cougar Consultants had a BBQ and drinks for golfers on Hole 8. On the back nine, Sensor Geophysical served warm beverages for golfers on Hole 12 while AGAT Laboratories had drinks and snacks for golfers on number 17.

Schlumberger was the official scoring system sponsor who posted scores and results at the banquet. CL Consultants sponsored all of the golf carts while Rigsgas Gas Detection sponsored the Driving Range. Exova once again stepped forward to sponsor the breakfast while MJ Systems helped to co-sponsor the banquet meal. Energy Navigator and AJM Petroleum Consultants helped round out the rest of the Silver level sponsors.

A huge thanks to the golf committee for helping out with their time and efforts again this year. Assisting as Chairpersons were Brenda Pearson from Birchcliff Energy and David Caldwell from Command Equipment. Hugh Wishart from Arawak Energy created all of the signs for the tournament although he was a no show again this year due to his work travel. Sure Hugh!

Penny Christensen organized all of the prizes for every hole competition, teams and random prize giveaways. Norm Hopkins bought all of the trophies for each winning team. Darin Brazel from IHS Energy

Systems and Matt Burns from Energy Navigator helped out tremendously with the sponsorship drive. Thanks to Dayna Rhoads at the CSPG office for being instrumental in helping out the committee with registration and anything else we needed.

We hope to see everyone again next year. It was sold out again this year, so make sure you register early.

Squash Tournament

Committee Chairs: David Caldwell

Committee members: Jessie Mitton; Kristy Howe; Megan Barefoot; Randy Smith; Ryan Barnett; Shawn Lafleur; Warren Bublonko; Dan Hermary; Naomi Storey; Jay Williams; Val Topolniski; Jeff Barefoot; Jocelyn Frankow

Well it sure doesn't seem like a slowdown in the industry when you pack in over 140 players into a squash tournament. The 27th year was a big hit as 142 people signed up for the annual CSPG Squash Tournament. The banquet also drew record numbers as over 150 people attended the final ceremonies to wrap up a great event.

The event featured great squash matches for both singles players and doubles teams. The higher levels of A and B were light in numbers, as was the Beginner E level. The mid-levels of C and D however, were packed and brought out some real tough, competitive games. Costumes were very creative this year. We had everything from pirates and Scotsmen to men in tuxedos with top hats.

The food served by the World Health Club in Edgemont was unbelievable. Pasta night was followed by Wrap Night and then Saturday Brunch. Banquet dinner didn't disappoint either with some great pizza and lasagna. This is undoubtedly a great venue for an event like this.

Thanks again goes out to Tucker Wireline who led the way with their tournament sponsorship. Geotir and Sensor Geophysical also stepped in at the Platinum level to provide much needed funds for taxi chits, teams tourney and registration night. Other large sponsors were: Belloy Petroleum Consulting; Divestco; Halliburton; Pason; Prospex Resource Management; RPS Energy; Rigsat Gas Detection Communications; and Roke Technologies.

Thanks to the CSPG Office for their help with registration and sponsorship.

We are looking forward to another great event in 2011. Mark your calendars, as the tournament almost always takes place in the first week of February.

21st Annual CSPG/CSEG 10km Road Race and 5km Fun Run

Committee Chair: Mike Cardell

Committee members: Greg Hayden; Matt Hall; Kathy Waters; Kathy Taerum; Jocelyn Frankow; Tim Burk; Chris Manion; Cindy Koo; Stephen Kotkas

The annual CSPG/CSEG Road Race and Fun Run was held on a very warm September 16th. The record heat may have deterred some, but a very enthusiastic and hardy crowd of 161 runners bolted from the start line. This year marked our second year for the 5 kilometre event and we saw a large increase in participants. Winning Time provided chip timing which makes the finish line volunteering much easier. Once again, the course was highlighted using unique distance markers which are based on geologic time. Like every year it was great to see a mix of competitive and first-time runners and from comments overheard, it was a good experience for all. The post-race social was held at The Distillery and the mix of racers and volunteers devoured a large number of pizzas and copious amounts of beer. The evening was topped off with door prizes, awards and of course our now famous sock toss. Through great sponsorship and participation in a very trying year, we were still able to contribute to the Educational Trust Fund and to the YMCA Strong Kids Foundation!

I would like to thank all the volunteers and sponsors who helped make this event a success! Thank you also to all the runners. It was a pleasure cheering you in at the finish line.

This year's sponsors were:

Platinum Sponsors	Gold Sponsors	Silver Sponsors	Bronze Sponsors
IHS	Earth Signal Processing	Paramount Energy Trust	Arcis
geoLOGIC systems ltd.	Divestco Inc.	CGGVeritas	Apoterra Seismic Processing
Gord's Running Store	Paradigm	Devon Canada	Belloy Petroleum
	Total E&P Canada	Sensor Geophysical	Chiropractic Performance and Sports Therapy Centre
		ReSurge	Edge Technologies
		Sproule	Continental Laboratories
		WesternGeco	Pulse Data
			AGAT Laboratories
			Pro Geo Consultants
			Sigma Exploration
			RPS Energy
			Eau Claire YMCA

Thank you to all the staff at the Eau Claire YMCA.

Here's a summary of the CSPG, CSEG and CAPL winners from 2009:

TOP MALE CSPG 10K RESULTS

Place	Gun Time	Race#	Name	Div/Tot	Sex/Tot	Div	Member
1	37:47.6	3	Francois TREMBLAY	1/5	1/18	M-U29	CSPG
2	41:19.8	132	Darren LAZARUK	1/4	2/18	M40-49	CSPG

TOP FEMALE CSPG 10K RESULTS

Place	Gun Time	Race#	Name	Div/Tot	Sex/Tot	Div	Member
1	42:57.5	49	Justine SAGAN	1/5	1/10	F30-39	CSPG
2	55:17.0	58	Tina DONKERS	1/1	2/10	F50+	CSPG

TOP MALE CSEG 10K RESULTS

Place	Gun Time	Race#	Name	Div/Tot	Sex/Tot	Div	Member
1	37:39.1	73	Richard KELLETT	1/10	1/22	M40-49	CSEG
2	40:07.4	108	Mario CECCANESE	1/8	2/22	M50+	CSEG

TOP FEMALE CSEG 10K RESULTS

Place	Gun Time	Race#	Name	Div/Tot	Sex/Tot	Div	Member
1	45:07.6	122	Shirley FLEMING	1/5	1/10	F40-49	CSEG
2	49:54.3	105	Lindy FRITZLER	1/2	2/10	F-U29	CSEG

TOP MALE CAPL 10K RESULTS

Place	Gun Time	Race#	Name	Div/Tot	Sex/Tot	Div	Member
1	38:23.4	84	Justin KANGARLOO	1/4	1/7	M-U29	CAPL
2	40:02.6	25	Dan CICERO	2/4	2/7	M-U29	CAPL

TOP FEMALE CAPL 10K RESULTS

Place	Gun Time	Race#	Name	Div/Tot	Sex/Tot	Div	Member
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1	47:09.5	46	Stephanie HAY	1/2	1/3	F30-39	CAPL
2	47:54.7	43	Jessie FLETCHER	2/2	2/3	F30-39	CAPL

5K OVERALL TOP 5 MALE

Place	Gun Time	Race#	Name	Member
1	22:57.5	380	Colin MORANCY	CSPG
2	25:44.0	413	Curtis CHMILAR	CSPG

5K OVERALL TOP 5 FEMALE

Place	Gun Time	Race#	Name	Member
1	21:37.4	412	Cindy KOO	None
2	25:15.5	375	Susan GIANG	CSEG

Outreach Report

(Mike DesRoches, Outreach Director; Steve Dryer, Assistant Outreach Director)

This is the annual consolidated report of the committees that make up the CSPG Outreach Division. The Outreach Division represents University and public education programs, enhancing the development and delivery of petroleum geology through awards and scholarships, raising the interest and awareness of geosciences students and the public regarding petroleum geology. Outreach programs are SIFT, University Outreach (Lecture Tours) and Honorary Address. Outreach, with the support of the CSPG Educational Trust Fund, promotes excellence in Petroleum Geology honoring Ph.D. and M.Sc. thesis submission winners, regional university scholarships and the Andrew Baillie Awards. \$3,000 was also donated by the CSPG to the Burgess Shale.

Honorary Address

Committee Chairs: Linden Achen and Alex Wright

Committee members: Annette Milbrandt; Bob Riopel; Dayna Rhoads; Jay Williams; Kyla Poezler; Marissa Whitaker; Michael DesRoches; Ranald Gault; Shawn Lafleur; Steve Dryer; Tom Sneddon

Topic: Islands of Time - Microevolution

Date: Tuesday, November 3, 2009

Location: Southern Alberta Jubilee Auditorium

The following companies sponsored this event: APEGGA; CSEG; Nexen Inc.; AJM Petroleum Consultants; Weatherford; Burgess Shale Geoscience Foundation; Sundog Printing; MacLaren McCann; and AVW TELAV.

The keynote speaker was Brian Keating, Director of Conservation Outreach from the Calgary Zoo. Brian presented his talk *Islands of Time – Adaptation of Life to Local Environments*. The journey took the audience to remote and local Canadian landscapes, showing that when environments change, or do not change, has a direct impact upon species and environment characteristics and relationships. Brian transported the audience from Papua New Guinea, Borneo, Madagascar, the Galapagos, and finally through Canada.

The second speaker was Dr. Paul Johnston, Professor in the Earth Sciences Dept. at Mount Royal University and guide with The Burgess Shale Geoscience Foundation in Field, B.C. He took the audience on a tour through the super-rare biotic assemblage that has been found in the Cambrian-aged shale outside of Field B.C. This find represents a huge range of species that were unheard of prior to its discovery. The preservation of soft tissues during fossilization has preserved species never thought to have existed.

The evening presentation saw 380 attendees. Doors opened to the public at 5:30pm and the talk started at 7:00pm. As in the past, the popular lobby displays featured 23 vendors and a silent auction. This year's silent auction raised \$1,900 for the CSPG's outreach efforts. The silent auction raised funds for the CSPG's outreach efforts. Tickets were for sale on-line at TicketWeb.com, \$10 for all; kids under 12 are free. A limited number were offered at the door for \$15 on the day of the talk (November 3rd, 2009).

1,751 Junior High School Students were bused in from various Calgary Junior High Schools to attend the morning presentation.

Student Industry Field Trip (SIFT)

Committee Chair: Dawn Hodgins

Committee members: Allan Carswell; Alyssa Middleton; Andrew Cook; Debbie Legaspi; Guillaume Nolet; Heather Slavinski; Ian DeWolfe; Indy Raychaudhuri; John Lefebure; Kim Bastedo; Megam Barefoot; Meghan O'Reilly; Michael DesRoches; Mitch Allison; Roger Baker; Wes Bader; Andrea Marsh

The 2010 edition of the CSPG SIFT program, which ran from May 2nd to 14th, was a tremendous success. The SIFT program has phenomenal volunteer and industry support with 18 committee members involved in planning and organizing and 26 industry professionals providing lectures and field trips. In addition to an outstanding volunteer base, financial support from our industry sponsors allows the CSPG to continue to offer this flagship program every year. Our major industry sponsors for 2010 were: ConocoPhillips Canada; EnCana Corporation; Shell Canada Limited; Imperial Oil Limited; Devon Energy; and Talisman Energy. SIFT was also fortunate to receive in kind donations by Enerplus; Crescent Point; Golder Associates; Weatherford Canada; Suncor Energy; and Sundog Printing. On behalf of the entire SIFT committee and the CSPG; I want to thank all the individuals and companies for their continued support of this incredible program.

The CSPG SIFT 2010 committee hosted 31 undergraduate students enrolled in geoscience programs from across Canada. This year, we are pleased to welcome Mount Royal University into the program and look forward to having them participate in the years to come. The 31 budding geoscientists came to Calgary for a two week introduction to the Canadian petroleum industry through classroom lectures, core workshops, an exploration game, field trips and many opportunities to talk to professionals working in our industry. Throughout the 2 weeks, students attended lectures presented by industry experts with topics including well logging and log interpretation, carbonate and clastic reservoirs, geophysics, well site operations, heavy oil and more. To reflect the current hot topics in the industry, we added three new talks this year; an Environmental Talk, Unconventional Resources and Global Energy Outlook. In addition to the lectures, students were able to tour the demonstration rig at SAIT, attend the CSPG Convention for a day and had time for a few field trips, including the legendary 4-day trip through the Rockies and a tour of the Atlas Coal Mine in East Coulee Alberta and a Behind the Scenes Tour at the Royal Tyrrell Museum (due to weather and safety conditions, the field trip to Dinosaur Provincial Park was cancelled). A large component of the SIFT trip is having the students apply concepts learned on the trip to an intense, hands on exploration game. The game teaches students some of the realities of the oil and gas business. Teams of 3 to 4 students form a company and are given a small land base and seed capital to start exploring and building their company. They use real well log data to make interpretations of the geology and identify "sweet spots" which they use to bid on additional land, drill wells and structure business partnerships. At the end of the program an experienced industry panel judges the interpretations and success of the individual companies and awards the Bill Ayrton Technical Award (Eric Letham, University of British Columbia; Jeremy Powell, Carlton University; and Peter Miskell, Memorial University) and the Larry Strong Financial Award (Lucy Newton, Dalhousie University; Kiersten Kalych, University of Saskatchewan; Francis Fortin-Morin, Laval University; Stephen Uzozie, University of Manitoba).

University Outreach

Committee Chair: Simon Haynes

Committee members: Aaron Grimeau; Mark Radomski; Cole Webster; Denise Hodder; Marianne Molgat; Tracy Allen; Chad Glemser; Angela Dearin; Markus Ebner; Justine Sagan; Sandra Rosenthal; Cory MacNeill; Kimberly Ing; Mark Rabin; Jane Marzetti; Tannis McCartney

The University Outreach committee is composed of 17 volunteers that deal with a variety of programs focusing on introducing and attracting university students to a career path in petroleum geology. This year we had over 500 student members (including students from outside of Canada), and 15 official student chapters at Canadian universities.

Each year, the SIFT Committee complements the two week SIFT program with a Summer Job Program. The goal of this component of SIFT is to place newly trained SIFT graduates with oil and gas companies in Calgary so that they can continue the learning experience. This year, eight students found summer positions. Each year, we continue to look for companies willing to hire our SIFT graduates. If your company is able to offer a position, please contact the CSPG office for more information.

In closing, many thanks all the SIFT committee members that have worked on the committee over the past 32 years. The organizing committee puts in a huge effort every year and it is a result of their hard work that SIFT is such a success.

Summer Student Field Trip

Mark Radomski and Jane Marzetti organized a 1 day field trip to Drumheller, on June 23rd. The field trip “Sedimentology & Stratigraphy of the Marginal-marine Bearpaw-Horseshoe Canyon Fm. Transition, Drumheller, Alberta” was led by Jason Lavigne of Bergschrund Integrated Sedimentological Solutions. Attendance was capped at 35 students, with the field trip leader and four assistants from the UO committee. Talisman Energy generously paid for dinner for the students and leaders

Student Conferences

Committee members: Justine Sagan; Angie Dearin; Chris Wallace

Every year, the University Outreach (UO) committee supports student-run geological conference across Canada. These are the AUGC (Atlantic Universities Geologic Conference), the WIUGC (Western Inter-University Geology Conference), and most recently, AESRC (Applied Earth Sciences Research Conference), which has generally been for students from Queens and Ottawa Universities for the last two years. We have coordinated our visits with members from our sister organization the CSEG Outreach committee. Two members of the UO committee attend to set up a booth and talk to the students about the benefits to becoming student CSPG members, and encourage them to consider a career in petroleum geosciences. The CSPG UO committee sends each host University a donation of \$1000 to help with general conference funding, and also supplies a variety of awards.

In January, Markus Ebner and Sandra Rosenthal attended the Western Inter-University Conference (WIUGC), hosted by the University of Saskatchewan, which had 120 delegates from universities across western Canada. The CSPG UO representative participated in a mine tour with the students, attended the talks and poster sessions, and judged presentations. The Best Undergraduate Sedimentology Presentation went to Matthew W. Demski from the University of Manitoba for his presentation entitled, *The Ordovician-Silurian Boundary in the Williston Basin Outcrop Belt of Central Manitoba: New Data and Reinterpretations*. The Best Graduate Sedimentology Presentation Award went to Greg Baniak from the University of Alberta for his presentation, *Facies Characteristics and Depositional Models for Highly Bioturbated Siliclastic Strata: an example from the Upper Jurassic Ula Formation, Norwegian North Sea*. Each award winner received a small trophy with the award and year engraved on it, and a \$300 cash prize.

In late March, Mark Rabin attended the 8th Annual Applied Earth Sciences Research Conference (AESRC) at the University of Ottawa. He attended the student talks and acted as a judge for both talks and posters. The CSPG funded two prizes – Best Ph.D presentation and Best Graduate poster. The AESRC 2010-CSPG Best Oral Presentation for a Ph.D student went to Deanne van Rooyen from Carleton University. The AESRC 2010-CSPG Best Poster Presentation for a Graduate student went to Leena Davis from the University of Ottawa. Each award came with a small award (ammonite and plaque) and a \$300 cash prize.

In October, Aaron Grimeau and Jacey Seebach attended the 60th annual Atlantic Universities Geologic Conference (AUGC), hosted by Acadia University in Wolfville Nova Scotia. The conference featured as three field trips to explore the local geology around Wolfville, a Ghost Tour of Wolfville, and a Saturday night Banquet and Awards Ceremony. The CSPG Best Petroleum Geology Presentation Award went to Frank Ryan from Memorial University for his presentation *Early Jurassic Gordondale Member – Shale Gas Potential and XRD, Wireline Log and TOC Analysis*. The award consisted of a small trophy and a \$500 cash prize.

2010 also marked the first time that CSPG participated in ASEC – Alberta Student Energy Conference. The 1-day inaugural event was held this year at the BMO Round-Up Centre, and consisted of lectures and workshops for university students in Geoscience, Engineering and Business. CSPG was invited to be a sponsor, so we sponsored a table for 4 students and 4 CSPG members at an evening banquet and networking session. This event was well-attended, and we recommend sponsoring it next year.

Lecture tours

Committee members: Simon Haynes; Tracy Allen; Marianne Molgat

Each year, a series of lecture tours is organized by the CSPG University Outreach committee. These lectures and visits focus on bringing oil and gas industry professionals together with university students to talk about recent work in the petroleum industry, technical challenges, and potential careers. This is one of the strongest outreach programs, which links the CSPG directly to university students and their professors.

The spring tour featured three speakers. In early March, Ryan Mohr from Nexen visited the Universities of Regina and Saskatchewan and gave a talk entitled *Unconventional Shale Gas: What is it, why is it important, and what skills do you need to explore for it? An example from the largest shale gas field in Canada - The Horn River Basin*. At the same time, Calvin Campbell, from the Bedford Institute of Oceanography, visited the University of Victoria, and Simon Fraser University, to give a talk entitled *Evolution of a passive continental margin: Insights from the Cenozoic geological history of the continental margin off Nova Scotia*. From March 15-19th Jen Russel-Houston, Geoscience Manager at Osum Oil Sands Corp., visited universities in Ontario and the Maritimes to visit with students and faculty and discuss the Grosmont Formation in northern Alberta and the many technical challenges needing to be overcome to extract the vast bitumen reserves.

In the fall we had two tours: Jeff Packard from Talisman Energy gave a joint talk at McGill for both McGill and Université du Québec à Montréal (UQAM) students on November 1st. The talk was entitled *Field work in the Eocene Carbonates of the Zagros Foothills, Northern Iraq*.

In October, Dr. Paul Mackay visited McMaster, Toronto and Queen's Universities with his lecture *The Recognition and Exploitation of Fracture Systems in a Carbonate Reservoir*, which dealt with his work in Egypt. In November, Paul came to the CSPG offices to present his talk to interested members of the CSPG Executive, the UO committee, and office staff. Paul gave a fantastic talk, and is a credit to the CSPG. If all the university lecture tours that go out are only half as good as this one, then the program is definitely a success.

APEGGA Geoskills

On February 10th of 2010, APEGGA held their annual Geoskills day in downtown Calgary, and the CSPG UO committee was represented by Corey MacNeill. The day featured a series of eight lectures from topics covering such things as soft skills, to more technically focussed presentations on both geology and geophysics. It was attended by students from the Universities of Calgary, Alberta, and Mount Royal. The evening session was a joint student-industry mixer that was very well attended.

Outreach at GeoCanada 2010

The University Outreach committee had a double effort in 2010 by planning and manning two booths. The first was a dedicated University Outreach booth that was on the main exhibitor floor and was set up as a meeting place for students. The idea was that it would be a focal point to interact with students from

other universities, and also to learn a bit about the CSPG and CSEG at the same time. We gave out several digital cameras as door prizes, so that students could take compelling photos during the conference and pass them along to the UO committee for use on the website and Facebook. There was also a draw for a Foosball table, generously donated by Trident Exploration that went to the winning university's club room.

The second booth was in the ESFS (Earth Science for Society) section of the conference (the Corral). The ESFS program saw over 2,000 students, teachers and parents visit over two days. Denise Hodder almost single-handedly designed a booth that focused on two main aspects of petroleum geology – reservoir rocks and source rocks. Denise had some great ideas and displays like filling up jars with different sizes of marbles to demonstrate the concept of porosity, having another jar of rotting organic matter to show students what type of material breaks down to form oil and gas deposits, and setting up a small wading pool with buckets of water and different sand grades to build a delta with the help of the kids. We got a lot of questions about it and a ton of interest from everyone who visited. Corey MacNeill organized a student walking tour of downtown Calgary on the third day of the convention. Approximately 25 students attended the 2.5 hour tour that included a visit to the library at Talisman Energy, a peek inside what goes on at an exploration company at Trident Exploration office, and a visit to a Key Seismic, so students can witness all the behind-the-scenes work at a processing shop. The walking tour culminated with a pub and disco night (student mixer) at Local 522, which include a drink ticket and food. The mixer hosted approximately 130 students (estimated) as well as representatives from industry and the UO committee.

University of Calgary Career Fair

Simon Haynes and Dayna Rhoads attended the University of Calgary Science and Engineering career fair on September 22nd, 2010. A booth was set up and we had approximately 100 students come and speak with us. The committee recommends continuing to attend these types of career fairs, particularly focusing on the Universities of Calgary and Edmonton. Although UO could consider attending similar career fairs at other universities, we are somewhat limited in what we can attend due to time and funding.

New Initiatives

A student E-newsletter was conceived of and compiled by Tannis McCartney. We have published two issues so far, and plan to send it out bi-monthly. The focus of this is to get a short publication out in a timely manner that addresses students directly, and hopefully make them feel that they are really part of the CSPG. Tannis also coordinates a monthly article in the Reservoir that focuses on University Outreach and students.

Aaron Grimeau and Sandra Rosenthal have revamped the undergraduate award. There will now be four awards of \$500 each given to each of i) Atlantic and Quebec, ii) Ontario, iii) Western Canada, and iv) Canada-wide, to accommodate any exceptional applications from the previous three regions. The award application deadline will in mid-January, and will be given to a full-time undergraduate geology or earth science student at a Canadian University. The application will be a 500-word essay on the applicants' statement of interest in soft-rock and/or petroleum geoscience, and will be judged by an awards committee that will be a subset of the current UO committee.

Communications Report

(Steve Hubbard, Communications Director; Jim Barclay, Assistant Communications Director)

2010 has seen the continued devoted volunteer and staff efforts to maintain the strong Communications activities as well some new revitalization efforts. As attested to in the reports that follow, our Bulletin, Reservoir, Calendar and website remain important and healthy flagships of the CSPG/ Activities such as

the Index of Publications and the e-Newsletter add to the technical and social fabric of our society. The planning for the Digital Atlas continues with the Atlas committee working on planning creative and financial aspects of this important project for our future.

As Directors we are blessed with a dedicated and strong group of volunteer and staff. We thank them sincerely for their efforts.

Revitalization

The 2010 Executive has taken on a task of revitalizing the CSPG. Why?

With the vision of John Varsek and Graeme Bloy impelling us, we felt that the CSPG is at a critical point in its history. This realization has developed in the context of the developments in the last few years of dramatic change for the economy, the oilpatch and the CSPG:

2007 and 2008 saw Presidents Colin Yeo and Lisa Griffith identify financial and organizational issues in the CSPG. In 2009 President Graeme Bloy implemented difficult financial and employment reforms, including replacing key staff. Graeme and executive began developing a renewal vision also. During 2010, John Varsek and the Executive added to and began to strategize the renewal vision, focusing on built on sustainable programs and relationships. The Executive participated in three 1-day strategy sessions for the Executive during the last year, volunteering three Saturdays to develop the renewal vision, along with our staff as well. During 2010, the early implementation of the renewal began. For 2011, incoming President Kirk Osadetz has planned to consolidate the renewal vision and strengthen CSPG revenue.

The renewal vision focuses on three platforms: technical, volunteer management, and marketing. In short, we feel that we can do a better job in communicating and augmenting our technical strengths we can manage our volunteers better and we can demonstrate the CSPG's value better to members and other stakeholders. Three main initiatives were struck to address the above three platforms.

Technical Revitalization

Since the Communications mandate falls under the umbrella of the technical activities of our society, we served on the Technical Revitalization initiative on a committee chaired by Greg Lynch in late 2009 and early 2010. The committee considered the technical activities of the society and prioritized the key activities that also had potential for renewal. The approximate order of priorities was identified as:

- *Website*
- Continuing Education Short Courses
- Continuing Education Fieldtrips
- Continuing Education Core-based Short Course
- *Bulletin*
- Technical Divisions
- *Reservoir*
- Gussow Conference
- Convention
- Technical Luncheons
- *Digital Atlas (Communications activities in italics)*

Based on the above priorities, we committed our main efforts this year to the top two Communications activities in the above list, i.e., the website and Bulletin. As directors, we made a decision to focus our time on this revitalization and consequently, spent less time collaborating with our committees who were maintaining our Communications portfolio. We thank them for their forbearance on this.

Website renewal

Without question, our website is the main line of communication between the society and its members. Our website is seven years old and due for an update. Our vision is to turn the website into the “virtual CSPG”– we believe that the website can feature content that members and stakeholders will want to visit regularly, if not daily. Digital communication is evolving rapidly, with Facebook, blogs and the like dominating the time many of us spend on the internet. We need to embrace this as a society, developing an interactive space anchored in technical information and links that will aim to add tremendous value to a CSPG membership.

The website renewal process began with a key group of those familiar with and interested in the website: volunteers Astrid Arts and Kyle Durocher, Communications Coordinator, Heather Tyminski and website consultant, Jeremy Sherry. Their efforts developed a vision for the site of increased technical content, networking, visual material and better access to all content.

A variety of ideas and concepts are being proposed for the website:

- Live calendars of all CSPG events,
- virtual rooms for regions,
- portals to all our publications,
- archives of division talks materials,
- links to Convention and conferences materials
- employment area,
- directors’ area: minutes, agendas, resources, contact information
- technical blog areas,
- links to universities, federal and provincial surveys
- social networking links,

The ideas are not limited to the above but are limited to what can be achieved. In late 2010, we asked our staff to begin consolidating a “wish-list” of the things we’d like to have and begin developing mockups of what we can have.

2010 saw our Communications Coordinator, Heather Tyminski; resign in order to enroll in law school. Steve and I thoroughly enjoyed working with Heather and wish her all the best in her new challenge. Executive Director Lis Bjeld managed a recruitment search in late summer and created two new positions to replace Heather’s role: a Publications Coordinator, Caitlin Young and a part-time web designer, Jeremy Sherry of EnterTheMind Media.

Lis envisioned that these two people would be pivotal in our web renewal efforts. Currently they have compiled a full wish-list of web initiatives and began creating mockups of what our new site could look like. We have already seen glimpses of how exciting our new site could be. We hope to roll out some changes soon and a full re-work of the site in 2011.

Bulletin renewal

The Bulletin of Canadian Petroleum Geology remains our flagship technical publication and deserved careful thought as to how it could be positioned for any potential renewal efforts. Discussions with Bulletin editors Rob MacNaughton and Denis Lavoie focused on several areas of thought:

- increase the number of papers per issue to five to six, increase the number of submissions for upcoming issues
- consider how to develop a new short paper concept
- develop a systematic solicitation effort to contact a variety of potential authors, e.g., convention, conference and division speakers, professors, students, survey geologists
- increase awareness of upcoming Bulletin papers and tables of contents using various notifications, e.g., CSPG website, the Reservoir, emails, social networks

- finish the efforts that are getting Bulletin publication back on schedule

Some of the ideas above we consider as “low-hanging fruit” in the sense that we could add to the Bulletin’s strengths with a limited amount of volunteer and staff effort.

In addition, Gerry Reinson and Haley Nielsen have agreed to assist in developing and implementing the best ideas to add to the strength of the Bulletin.

Bulletin of Canadian Petroleum Geology

Committee Chairs: Rob MacNaughton and Denis Lavoie

Committee members: Denise Then; Richard Evoy

The *Bulletin of Canadian Petroleum Geology* currently is edited by two Editors-in-Chief, assisted by twenty-five Associate Editors and a Book Review Editor. All of these people work entirely as volunteers. In addition, the CSPG pays for the services of a Managing Editor, Production Editor, and Layout Editor. CSPG office staff ensures that each completed issue is published on the Members Only section of CSPG website, through GeoScienceWorld and AAPG Datapages, and in a limited number of hard copies.

During 2010, Richard Evoy stepped down after several years as Book Review Editor and we thank him for his service. Few companies send books the *Bulletin* for review these days, and we would appreciate feedback from the membership about whether or not we should continue trying to publish book reviews.

Three issues of the *Bulletin of Canadian Petroleum Geology* were published between September 2009 and August 2010: Volume 57, numbers three and four, and Volume 58, number one. Altogether, the *Bulletin* published 13 papers and an introduction to a special issue, totalling 334 pages (not including end-matter, award citations, etc.). The *Bulletin* has virtually no backlog of papers. However, the transition to primarily digital publication, combined with staff turnover and with production delays related to special issues, put the *Bulletin* some months behind schedule in publication. We are on track to be back on schedule early in 2011.

The Editors-in-Chief have had several discussions with the Communications Directors regarding CSPG’s technical renewal goals. One result is that the *Bulletin* has set the goal of publishing at least five papers in every issue. We achieved this goal in one out of the three issues published during the year and are on track to achieve it consistently in 2011. Also, with the help of the CSPG Communication Committee, we are considering adding of new paper formats in upcoming volumes.

During the reporting period, we published papers covering sedimentary basin evolution and associated hydrocarbon resources from eastern to western to Arctic Canada, from the old Palaeozoic basins to the younger Cenozoic successions, from conventional to non-conventional resources. We think this breadth of coverage makes the *Bulletin* the prime Canadian journal for hydrocarbon-related studies.

Reservoir

Committee Chairs: Ben McKenzie and Colin Yeo

Committee members: Anne Hargreaves; Peggy Hodgson

The Reservoir averaged 40 pages per issue during 2010. While a large portion of this material consists of the usual Society updates, reports on activities, and technical talk abstracts, there were also a number of geoscience-oriented articles that covered a broad spectrum of topics. These were authored by individual CSPG members and by industry, government, and academia groups. Some examples include articles on *The Geology of Hurricane Katrina* (Anne Hargreaves), *Exploration Review of the Horn River Shale Gas Play* (Canadian Discovery), and *Impact of Wellsite Geology on Petroleum Exploration and Development* (APEGGA / CSPG). As well, there were several technical article series that either finished or were started throughout the year. These include *Remote Sensing for Geologists* (Mryka Hall-Beyer), *Petroleum Economics for Geologists* (Colin Yeo and Lionel Derochie), petrophysical series by Gene Ballay and Ross Crain, and a series on shale gas by Roberto Aguilera, Chris Clarkson, Per Pedersen, and Ron Spencer.

The Reservoir is self-funding, in that all production costs are covered by revenues from advertising. Compared to 2009, advertising revenues in 2010 were down nearly \$53,000. Although somewhat offset by a decrease in production costs, this drop was significant. As a result, some articles throughout the year had to be postponed in order for the Reservoir to stay within budget.

Another milestone for the Reservoir was the departure of Heather Tymnski. Heather had been the Coordinating Editor for three years and was a strong force in getting the Reservoir out on time and within budget. We wish her luck in her new endeavours.

Website

The CSPG is in the process of undergoing a major website revitalization to reflect new technologies that can improve member usage of the CSPG website. With the world in a digital age, the new CSPG website will be more interactive for users and add even more value to the CSPG membership. The new website will aim to have features that members will visit on a regular, if not daily basis. CSPG staff along with their respective committees have worked together to develop a “wish-list” of features that they wish to have on the new website that will be of benefit to members and other users of the site. A website committee has been established to address these concerns and mock ups of the new website have received positive feedback.

Geological Calendar

Committee Chairs: David Hills and Markus Ebner

In the period between September 2009 and September 2010, the Geological Calendar Committee worked on assembling and released the 2010 Geological Calendar (Which was distributed in November 2010).

This year's calendar had a strong showing of Canadian content (50%) which includes notable photos David Thompson's photo of Abbot Pass, Taken from Yukness Mountain, Lake O'Hara, Yoho National Park, British Columbia (Cover Photo) and Hamid Farid's photo of Exshaw Shale, Kananaskis, Alberta (winner of Best Macro Photo). The winner of the best Photo was awarded to Michael Lam for 'Giant's Causeway, County Antrim, Northern Ireland.

This year the Calendar Committee sees long time Chair Dave Hills handing over the reins to Markus Ebner to assemble this year's visual eye candy- overload for geologists.

Index of Publications

Committee Chair: Peter Hay

Committee members: Michele Innes; Barrie Dargie; Regina Shedd; Hussein Girnary; Riona Freeman

The CSPG Index Committee reviews all CSPG Publications to select keywords or subjects that are discussed in these publications. These keywords are then input to the On-Line Index to CSPG Publications, which is available to all through the CSPG website.

This On-line Index contains references not only to all CSPG publications, but also to those of the predecessor Alberta Society of Petroleum Geologists, as well as the Saskatchewan Geologic Society, the Edmonton Geologic Society and Palaeontographica Canadiana. Approximately 5800 papers are included, including all Bulletin and Journal papers, Memoirs, guidebooks, Devonian Symposia and Williston Basin guidebooks, etc. – going back to 1931. In addition, all CSPG Luncheon talks since 1994, as shown in the monthly CSPG Reservoir, have recently been added.

Geologists wishing to research specific formations or areas or subjects, can easily do so by accessing the CSPG website – “cspg.org”, followed by “publications” and then “Index to Publications”.

References to individual CSPG papers can be retrieved by selecting Keywords – defined as subjects

discussed at some length – and which include geologic ages (e.g. Cretaceous, Lower), geologic formations (e.g. Cardium or Slave Point Fm), or areas (Calgary area, Grand Banks) or subjects, such as hydrodynamics or source rocks or climate change. To select keywords to be retrieved, simply type the keyword in the space following “Subject/Author” and then hit the “Search” button. Lists of all available keywords can also be retrieved. Authors and NTS (National Topographic System) areas are also retrievable.

Four new members joined the Index Committee over the past year and new members are always welcome. Meetings to select appropriate keywords from recent CSPG Bulletins and Reservoir papers are held at the CSPG Office over the noon hour every three to four weeks, and expand geological knowledge by providing increased familiarity with CSPG publications.

North American Commission on Stratigraphic Nomenclature

Committee Chairs: Brian R. Pratt and Octavian Catuneanu

The North American Commission on Stratigraphic Nomenclature acts as the guardian of the North American Stratigraphic Code and promoter of stratigraphic principles. Commissioners represent various geological societies and federal, provincial and state geological surveys, in the USA, Canada and Mexico. The CSPG maintains a presence on NACSN through two representatives, and for the past few years this task has fallen to Octavian Catuneanu (University of Alberta) and Brian Pratt (University of Saskatchewan).

The 65th annual meeting was convened on 1 November, 2010 during the Geological Society of America annual meeting held in Denver, Colorado. NACSN sponsored a special session at the conference and abstracts can be downloaded from the GSA website. Entered into the record was the Spanish translation of the Code prepared by two of the Mexican commissioners. Items being considered for possible inclusion in the Code are: (1) stratigraphic nomenclature for intrusive igneous bodies; and (2) formally named hydrostratigraphic units. CSPG members who have thoughts on either of these ideas should send them to either Brian or Octavian (brian.pratt@usask.ca; octavian@ualberta.ca).

NACSN is closely linked to the International Subcommission on Stratigraphic Classification, which is in turn part of the International Commission on Stratigraphy and the International Union of Geological Sciences. Both Brian and Octavian are active in ISSC, with Brian being the current chair. NACSN and other national bodies are awaiting recommendations from ISSC about the nomenclature and methodology of sequence stratigraphy, and an ISSC working group on sequence stratigraphy chaired by Octavian is currently preparing a manuscript on this. Eventually an updated International Stratigraphic Guide will be published, and it is hoped national codes will be harmonized with it. This will be based on a series of review papers with case studies that have been published in *Newsletters on Stratigraphy*. Up to now, Cyclostratigraphy, Chemostratigraphy and Magnetostratigraphy have appeared, and Lithostratigraphy, Chronostratigraphy, Biostratigraphy and Sequence Stratigraphy are in preparation. CSPG members should also be aware that the Geological Time Scale is under the purview of ICS and has seen some changes.

The NACSN website is hosted by the American Geological Institute: www.agiweb.org/nacsn
The latest (2005) edition of the North American Stratigraphic Code (*AAPG Bulletin*, v. 89, p. 1547–1591) can be downloaded for free (via the U.S. Geological Survey website).
The ICS geological time scale and other materials can be accessed at: www.stratigraphy.org

CSPG Educational Trust Fund

Chairman: Claus Sitzler

Trustees: Peter Harrington; Dan Krentz; Bob Dick; Alice Payne; John Hogg; Mike DesRoches; Steve Dryer; John Cuthbertson; Clint Tippett; Bruce McIntyre

I would like to provide our stakeholders with an annual update for 2010 as well as some guidance on the direction the Trust intends to take over the next several years.

On behalf of the CSPG Educational Trust Fund (Trust) I would like to take this opportunity to express a sincere thank you to those individuals and corporations that have supported the Trust over the years through their participation, contributions and dedication to our shared vision.

Over the last year the Trust received donations of \$41,824 from both individual and corporate donors. This amount includes sponsorship contributions that have been directed towards specific programs such as the Student Industry Field Trip, Honorary Address, and the new Kids in Science program. The Trust's fund as managed by The Calgary Foundation had a value of \$1,151,806 at year end. The fund increased in value by \$55,530 after \$13,875 in fees during fiscal 2010; including the unrealized gain on the market value of the investments.

The Trust's mandate is to inspire individuals to pursue a career in petroleum geoscience through the funding of innovative, informative educational programs. A growing demand for energy, declining production of petroleum and our aging demographic require an increasing number of qualified petroleum geoscientists. To address these challenges, the Trust recognizes the need to support programs that promote both community awareness of petroleum geology and the impact geoscientists have on almost every facet of our society.

In order to identify a career in petroleum geology as an option we must touch individuals at various stages of their education. The Trust will allocate a large portion of its efforts towards university geoscience students and their faculties. In addition to university students, the Trust will also direct a portion of its support to public education at the K-12 level, as well as, general public awareness of our profession.

The major university initiative to date, the Student Industry Field Trip (SIFT), has been extremely successful in attracting young, enthusiastic geoscientists into our industry. The CSPG with the support of the Trust has significantly increased student membership. We are now nearing 600 CSPG student members across Canada, a dramatic increase from recent years. To solidify these gains we need to expand the visiting lecturer program so that the new members get a direct visit from a CSPG member in industry to gain insight into our exciting profession.

The Trust supports general public education and K-12 education with funding directed to various science educational programs. In order to receive funding from the Trust, each program must make application and meet criteria specific to raising awareness of geoscience. Trust supported educational programs are the National EdGEO workshop program for teachers, the Student Industry Field Trip, CSPG University Outreach and the Calgary Youth Science Fair. The Trust's challenge to date has been its limited ability to provide funding to all of the worthy programs that apply for the Trust's support and the ability to extend its funding to more national scale programs. The Trust would like to help the CSPG attend more career fairs than their Outreach budget currently allows. This is an important time to reach students when they are actively looking at their career choices.

With continued individual and corporate support, the Trust has the ability to fund its current programs. To expand upon this current program list, the Trust's Board and the CSPG Executive have identified a number of university outreach, K-12, and public educational programs that will require additional funds.

Please consider the Trust in tax planning initiatives or in your will to keep the foundation of your society strong now and in the future.

On behalf of the CSPG Educational Trust's Board of Trustees I thank you for your interest and continuing support of the Trust.