

# 2011 CSEG ANNUAL REPORT



*CSEG 2011-2012 Executive: Back row (L-R) Jason Noble, Patrick Tutty, Larry Herd, Ron Larson, Kim Nevada, Glenn Malcolm, Shawn Maxwell; Front row (L-R) Barrie Jose, John Townsley, Kelly Jamison. Missing: Rob Kendall, Mike Perz, Hugh Geiger, Cheran Mangat, Jim Racette.*

## 2011 Executive

**Larry Herd, President**

**Rob Kendall, Vice President**

**Mike Perz, Director of Educational Services**

**Hugh Geiger, Assistant Director of Educational Services**

**Barrie Jose, Director of Member Services**

**Patrick Tutty, Assistant Director of Member Services**

**Kelly Jamison, Director of Finance**

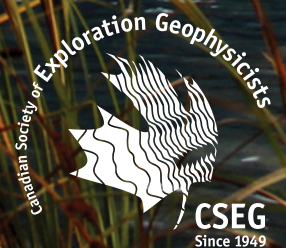
**Glenn Malcolm, Assistant Director of Finance**

**Cheran Mangat, Director of Communications**

**Jason Noble, Assistant Director of Communications**

**John Townsley, Past President**

**Jim Racette, Managing Director**



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## President

As I turn the corner of my term, I want to repeat what I said at the very beginning of my term: The Canadian Society of Exploration Geophysicists, your society, remains healthy, vibrant and prosperous. Societal health is not just measured by figures on the balance sheet – we are very strong according to all financial metrics – but also in the numbers and quality of volunteers and their impact on the world within which we operate. April 15th through April 21st marks Canada's 69th National Volunteer Week, paying tribute to the millions of Canadians who graciously volunteer their time and energy to worthy causes. As a closing remark to my year as president of the CSEG, I want to thank each and every one of our volunteers who selflessly took time to help out in some way to better our society through one or more of the dozens of activities that we are engaged in. Your contribution to the success of our organization cannot possibly be over-stated. As the outgoing president, I am still amazed at the complex network of successful volunteer-operated programs that we conduct in our Society. Out of the current membership of more than 1800, at least 250 members are listed in our records as volunteers in some capacity, comprising almost 15% of our membership. This is an enviable statistic that is unmatched by any other society that I have become acquainted over the years.

At the end of the year, all of the CSEG operating groups report in to the Executive on their activities during the year, and their reports are summarized in the society's Annual Report. A few major events occurred this year that are worthy of special mention and at risk of repetition, I will outline them here.

**GeoConvention.** Our sister society the CSPG operated the *recovery 2011* convention under an operating agreement in place between the CWLS, the CSPG and the CSEG in May, 2011. I heard many kudos from the attendees offered to the various committees for jobs well done, and I want to pass on my personal thanks as well as from the CSEG Executive to each and every one of the volunteers headed up by the Steering Committee of General Co-Chairs and their respective technical

Co-Chairs Rob McGrory and Laurie Bellman (CSEG), Paul McKay and Per Kent Pedersen (CSPG) and Satyaki Ray and Simon Corti (CWLS). Our Exhibits Chair Judi MacDonald, and Sponsorship Chair Carmen Swalwell and their assistants were responsible for exceeding budget expectations for exhibit and sponsorship revenues, and our convention staff Aileen Lozie and Alyssa Middleton tied everything together. There were countless others who contributed in no small part to the success of this year's convention, and again, I thank you.

Under the terms of the GeoConvention operating agreement, each year the non-operator elects to either assume the operatorship for the next year's convention or to allow the existing operator to continue their mandate. A small subcommittee led by Rob Kendall (CSEG VP) recommended to the Executive that the CSEG exercise their option to assume the operatorship for the 2012 convention, a motion which was unanimously passed. After further discussions with the CSPG, it was determined that the CSEG would operate for two years (which would include the 2013 GeoConvention) and by then likely have another working agreement in place for the future. As the operating partner, convention staff were hired – Convention Operator staff Shauna Carson as Convention Manager and Alyssa Middleton as Assistant Convention Manager.

On the week-end of October 29th, the CSEG hosted a closed-door brainstorming session of 17 senior staff and executive members of the three societies – CSEG, CSPG and CWLS – and JACC (Joint Annual Convention Committee) volunteers and current and past Convention General Chairs. At the conclusion of the enclave, a set of Guiding Principles was established to guide future discussions and negotiations towards future conventions. These draft Guiding Principles were put before each of the Society Executives and Boards and ratified:

**Vision: To be the pre-eminent annual geoscience convention in the world.** While this sounds like a pretentious vision, we recognize

that Canada is situated at the forefront of many of the current and future resource developments in the world. As such, our societies have a role to play and should be prepared to lead the world with technical expertise.

**Guiding Principle #1:** Provide value to society membership and other stakeholders by building on past success, striving for future improvement, providing continuity of management and appropriate governance. This will be accomplished by communicating to member societies, effective marketing and branding, gathering and analyzing relevant statistics, and by administering efficiently while providing accountability, initiative and thorough record keeping.

**Guiding Principle #2:** Maintain and promote flexibility to include other entities in future conventions, while complying with each society's mandates and bylaws guided by responsibilities to sponsoring societies.

**Guiding Principle #3:** Ensure that the operating entity has sufficient authority to achieve (vision) goals responsibly with accountability.

**Guiding Principle #4:** Ensure prudent financial management; develop metrics for equitable profit / loss distribution; provide proactive financial risk management & conflict of interest avoidance.

**Guiding Principle #5:** Ensure HSEC practices consistent with sponsoring Societies' best practices.

Rob McGrory took over as the Joint Annual Convention Committee chairman this year, and the former JAC Committee, now referred to as the GeoConvention Committee, will be redefining its role with an eye to provide business leadership for the joint society's convention interests. The upcoming May 2012 GeoConvention "Vision" is co-chaired by Satinder Chopra with John Cody (CSPG) and Roy Benteau (CWLS) and is well underway to becoming a great success.



## President (con't)

**Office Move.** During the summer, the CSEG office moved to the 5th floor of the Roslyn building on 5th Avenue SW. After much deliberation and negotiation, we signed a new 7-year office lease that will see us through to October, 2018. The new office is up and running, and Jim and Sheryl are manning the administrative responsibilities while Shauna and Alyssa are administering the 2012 GeoConvention.

**On-line Journal.** The Canadian Journal of Exploration Geophysics was re-introduced in September after a 12 year hiatus. This online publication of peer-reviewed papers has regained its rightful place as a cornerstone of our Society's technical contribution to the profession. Congratulations to all those volunteers who made it happen – in particular Larry Lines, Satinder Chopra, Corey Hooge and Cheran Mangat – and to those technical writers who can now publish their works in our journal.

**CSEG Foundation.** The Foundation is the CSEG's registered charity that provides funding to geophysical-related activities in support of the development of geophysical knowledge, education and public awareness. While relatively young, their goal is to become completely self-funding by growing their corpus – the funds that generate their income stream – to a sufficient size to accomplish this. The Foundation has engaged a consultant to shepherd a major funding drive to reach that goal sooner than the founders had originally anticipated.

The Foundation operates as a registered charity with a Board of Directors: Perry Kotkas has assumed the Chairman role from Brian Russell (who is now working with Director John Boyd on the Funding Committee), Neil Rutherford, (Treasurer), Larry Herd (CSEG Pres.), Laurie Ross (Sec.), Annette Milbradt, Matthew Klukas, and Sarah Cutten.

One of the Foundation's objectives that I stated in my June Presidential Column in the RECORDER was to increase the Foundation corpus (the amount of non-operating capital that generates income to use for scholarships and bursaries) to the \$1 Million mark, and I am pleased to report that in the February executive meeting, your Council agreed to top up the Foundation's corpus by \$260,000 to reach that magic yardstick. Thanks to all of the hard working volunteers, staff and supporters who have made this feat possible.

**CSEG Symposium.** In 2010, the idea of honouring local geophysicists was proposed to the CSEG Executive Committee, and a formal presentation for the same was made to the CSEG Executive Committee in April 2011. The proposal was to honour those geophysicists who have distinguished themselves with their geophysical contributions to the Canadian oil and gas industry, enhanced understanding, and are well-known internationally. With active support from the CSEG Executive, a CSEG Symposium Committee was formed to represent, organize and put on such a forum, this year to be held on March 22, 2012. The inaugural year's

Symposium will honour Dan Hampson and Brian Russell. As a trial this year, the CSEG Annual Awards will take place at the Forum luncheon, where our society will honour our contributing members, rather than at the traditional award ceremony at March's Annual General Meeting.

As I wrap up the year and prepare to move on to my new role as Past President, I am confident that the Society's welfare is secure, that we are healthy, vibrant and providing significant value to our membership. Our volunteer base is high and energetic, and our traditional events that we have held for many years, will continue to flourish. We have added some new components to our Society, and hopefully they will withstand the test of time and flourish like the others.

Thank you to John Townsley for leaving the society in such good shape for me to inherit and I hope that Rob Kendall, your incoming President, can say the same this time next year. Thanks again to all of the volunteers who make our society operate. Without you we would be nothing. Thank you to Sheryl and Jim, the back-bone of our administration, and to Shauna and Alyssa, our convention staff, for keeping us all on track.

And thank you to the CSEG membership, for allowing me to serve and represent our Society. It has truly been an honor.

*Larry Herd  
President*



## Vice President

As CSEG Vice President, this year has been a busy one for me. Coming up to speed on the numerous things that the CSEG is involved in is an eye opener. I attended the annual Canadian Federation of Earth Sciences (CFES) conference in Ottawa, milestone meetings regarding the future direction of the Joint Annual Convention Committee (JACC), the Chief Geophysicists Forum once every three months and monthly meetings of: the CSEG executive, the Tri-Society (CSEG, CSPG and CWLS) and the GeoConvention.

The CFES ([www.geoscience.ca](http://www.geoscience.ca)) meets twice a year and is the umbrella society of all of the earth sciences in Canada. They have tens of thousands of members paying dues through the following societies:

AGS: Atlantic Geoscience Society – [ags.earthsciences.dal.ca](http://ags.earthsciences.dal.ca)

CAG: Canadian Association of Geographers – [cag-acg.ca](http://cag-acg.ca)

CanQua: Canadian Quaternary Association [www.canqua.com](http://www.canqua.com)

CCCESD: Council of Chairs of Canadian Earth Science Departments – [cccesd.acadiau.ca](http://cccesd.acadiau.ca)

CGS: Canadian Geotechnical Society – [cgs.ca](http://cgs.ca)

CIM: Canadian Institute of Mining Metallurgy and Petroleum – [cim.org](http://cim.org)

CNC-IAH: Canadian National Chapter of the International Association of Hydrogeologists [www.iah.ca](http://www.iah.ca)

CPTG: Committee of Provincial and Territorial Geologists – [cpgeologists.ca](http://cpgeologists.ca)

CSEG: Canadian Society of Exploration Geophysicists – [cseg.ca](http://cseg.ca)

CSPG: Canadian Society of Petroleum Geologists – [cspg.org](http://cspg.org)

CWLS: Canadian Well Logging Society – [cwls.org](http://cwls.org)

GAC: Geological Association of Canada – [gac.ca](http://gac.ca)

MAC: Mineralogical Association of Canada – [mineralogicalassociation.ca](http://mineralogicalassociation.ca)

PDAC: Prospectors and Developers Association of Canada – [pdac.ca](http://pdac.ca)

Of primary importance for the CFES this year is the 2020 International Geological Congress. Vancouver, Canada ([www.igc2020.ca](http://www.igc2020.ca)) is bidding to be the third Canadian city to host the congress. The bid has received support from more than thirty Canadian and American governmental, academic, industrial and professional organizations. The bid committee will travel to the IGC in Brisbane in August, where the vote will be held. India and Spain will also bid for the IGC2020.

The JAC Committee has undergone significant change this year with Rob McGrory taking over the chair of the GeoConvention committee. The three societies (CSEG, CSPG and CWLS) are working closer together than ever before and this looks to continue for the foreseeable future. The momentum of these three societies working together has great technical, economic and networking upside.

The CGF selected a subcommittee to spearhead ground breaking changes to the professional role of geophysicists in Alberta. APEGGA (the Association of Professional Engineers, Geologists and Geophysicists of Alberta) published its *Guideline for Ethical Use of Geophysical Data v1.0* in May of 2010 in response to industry feedback. The Guideline speaks for APEGGA. APEGGA developed the Guideline in response to issues concerning the business use of licensed geophysical data in the oil and gas industry, with the intent of clarifying the responsibilities of professional members when dealing with various ownership classifications of such data. Hunt et al. will present “A practical perspective on APEGGA’s Guideline for Ethical Use of Geophysical Data” at this year’s GeoConvention May 14-18.

The Tri-Society meeting is a means for the CSEG, CSPG and CWLS to meet once a month and share updates on relevant intra-society issues and in particular updates on the planning and progress of the GeoConvention. There is great potential for the JACC and Tri-Society meetings to be combined.

*Rob Kendall  
Vice President*



## Director of Communications

- Assistant Director of Communications: Jason Noble
- Resurrected the CJEG and person responsible for all the updates is Larry Lines
- RECORDER Committee has had a few changes: John Fernando is now the Chief Editor, having taken over from Satinder Chopra. The meetings will still be held at Arcis' offices and Satinder will be helping out from the sidelines
- Organised a Website Committee to look after the updates and improvements to the CSEG Website. We now have a budget of \$25,000 in 2012 to make the improvements. Committee members include: Cheran Mangat (Director), Jason Noble (Asst), Jocelyn Frankow (Sensor Geophysical), Mohammed Saie (Fugro-Jason), Will McCarthy (ION), John Fernando (SAIT), Jeremy Sherry (Enter Mind Media) and Sheryl (CSEG)
- We will be bringing the RECORDER Online using Flip-Page technology
- We will be re-branding the templates for the CSEG.
- All requests and updates for Website from other Committees will now be handled by the Director of Communications.

*Cheran Mangat  
Director of Communications*



## Director of Finance

A year ago I joined the CSEG executive as the Assistant Director of Finance under the expert guidance of Kelly Jamison, Director of Finance, for the first year of a two year term. A year has now passed with Kelly taking a well-deserved rest as his term is completed; I have moved up to Director of Finance for this year with Wade Brillon joining our team as Assistant Director of Finance. I want to thank Kelly for his three years (he got the privilege of serving an extra year) of service to the CSEG in the finance area. I appreciate the time Kelly took to mentor me and I look forward to passing this on to Wade through this year.

The CSEG is in great financial shape due to excellent financial management and a healthy oil & gas industry. Our income was up relative to budget due to a successful Joint Convention with the CSPG and CWLS and a very successful

DoodleTrain this past November. Our expenses were down relative to budget due mainly to lower administrative expenses with reduced rent when we moved into our new office location mid-year. This yielded a surplus for 2011 of almost two hundred and fifty thousand dollars that we were able to contribute to the CSEG Foundation corpus. This is exciting as the CSEG Foundation has now passed the one million dollar level. This solidifies the CSEG Foundation as it expands its reach in the coming years.

I know when someone starts speaking of finances most people's eyes glaze over and their minds wander off to think of some more exciting topic. The finances are the basis for all that we do as a society, all of our programs and services are funded out of this much like our home and family life is based on our bank accounts and our income each month. The many committees serving us

and our society use this financial base to run their various programs. They are the ones that deliver the programs and services that we all enjoy.

My job is made simpler by our office staff, Jim and Sheryl, who look after all the day to day activities of our society. They run not only an efficient office but also interface with the many committees serving all of us. Through my involvement this past year on the executive I have become more aware of the many and varied committees serving us throughout the year. I know we are well served by this impressive array of volunteers. If you are not currently involved as a volunteer consider volunteering; I am sure there is a spot that matches your skills and interests. It is as simple as contacting Jim or Sheryl at the CSEG office.

*Glenn Malcolm  
Director Finance*



## Managing Director

The CSEG definitely felt the effects of an optimistic economic climate in the industry as 2011 seen an upturn in a number of areas and activities the society is involved in:

- The GeoConvention was deemed a huge success, both technically and financially for our membership
- The DoodleTrain's overall attendance was up by about 20% over 2010 numbers, but still down from our record year of 2007, however 17 courses were provided and it still is considered a significant revenue stream for the CSEG.
- The RECORDER saw an increase in advertising of about 15% compared to the past three years.
- The technical luncheons saw an average of just under 400 tickets per event sold. This was up by about 13% over 2010. The Corporate Sponsor program was a huge success as all 9 events were sponsored at \$1500.00 per luncheon. This helped the luncheons stay ahead of ever rising costs.

### Other areas of note:

- The CSEG moved their office over the summer. After spending the past five years sharing space, the CSPG chose to re-locate on their own, so obviously we as well have our own space.
- The CSEG took over operatorship of the GeoConvention, for 2012, as of September 1, 2011. The convention staff are now located in the CSEG office.

### Looking ahead to 2012

- The first annual CSEG Symposium will be held in March. The event will hopefully become an annual activity.
- DoodleTrain will be expanding to 24 courses from November 12-16. It is our hope to increase enrollment by at least 10% over 2011.
- The CSEG Foundation will reach \$1 Million dollars in its corpus this year, and will begin a major fundraising program during the year.
- GeoConvention appears to be on target to exceed its 2011 numbers both delegate wise and financially.

- CSEG should exceed its target in membership renewals and remain constant with its corporate member program.

In closing I would again like to thank our executive for their support over the past year. Their commitment, along with the many volunteers serving on our committees, is the lifeblood of the CSEG and is unique among technical and professional societies in today's world.

As our industry and the financial environment continue to change it is our commitment to the membership to provide the best service and information possible. It appears that the industry is on its way to recovery, though still slower than we all would like. In saying this both the Executive and staff are cognizant of the immediate future and have well positioned the CSEG to handle the recovery without drastically altering its services.

*Jim Racette*  
*Managing Director*



## 2011 Joint Annual Convention of the CSPG, CSEG, CWLS

### Recovery May 2011

#### By the Numbers (unaudited):

Total Revenue:	\$2,022,541.36
Total Expenses:	\$1,120,628.62
Profit (for distribution):	\$901,912.74
Exhibitor Fees:	\$344,497.50
Sponsorship:	\$401,262.50
Registration:	\$1,097,362.50
Attendees:	4400
Paid Registrations:	2467
Day Passes:	960
Technical Talks:	267 in 31 sessions
Posters:	83
Core Presentations:	16
Total Technical Presentations:	366

#### Introduction

The theme of the 2011 convention was 'recovery'. The planning for the convention began near the end of 2009. At that time the industry was wallowing in the aftermath of a significant recession which had depressed the price of Natural Gas in a dramatic and significant manner. Although there was still reasonable prices for oil the uncertainty in the potential for the economy to rebound from the financial disasters that had plagued the latter portion of 2008 and throughout 2009 were real and the petroleum industry was in a slow-down waiting to see how the world economies and in particular the US economy would rebound.

It was anticipated that the term 'recovery' would resonate with the Societies' (CSPG, CSEG, CWLS) membership on business, technical, corporate, and personal levels. The choosing of the Steering Committee is generally the responsibility of JACC. This committee fills the roles of General Chair of the Convention and Technical Chair of the Convention for all three societies and as such has representation from all three societies. Another significant person to the Convention is the Convention

Manager, who has been traditionally an employee of the CSPG. Although the Convention is a joint effort of the three societies, in the past the CSPG has been the operator of the Convention and as such has dedicated staff for the running of the Convention.

During the planning of *recovery* there was an abrupt resignation of some of the key JACC volunteers as well as the loss of the Convention Manager (due to maternity leave). As operator, the CSPG hired Aileen Lozie to fill the role of Convention Manager. Prior to the resignation of the volunteers in JACC, Paul MacKay (CSPG), Rob McGrory (CSEG), and Satyaki Ray (CWLS) were appointed the General Co-Chairs of the Conference. Per Kent-Pederson (CSPG), Laurie Bellman (CSEG), and Simon Corti (CWLS) were appointed as Technical Co-Chairs of the conference.

#### Planning

The initial planning sessions of the Convention consisted of the General Co-Chairs and the Convention Manager. In these early sessions the basic question "Why do people come to the Conference?" was put forward. Although anecdotal, the main reasons were determined to be: to catch a few technical talks, see any potential new developments in the exhibits, to catch up with friends and acquaintances, and to support the Societies. It was felt that all of these reasons were legitimate motivation except for the last motivation. Although it is nice to know that the membership cares about the Societies fortunes it struck the committee that the last motivation was backward. The membership does not exist to support the Societies, rather the Societies reason for existence is to support their members.

The three Societies are technical societies first and foremost. Their formation was all brought about to forward the geoscience of petroleum studies. If the Societies had found meaning and historical success as technical entities it was decided by the Steering Committee that this would be the main thrust of the 2011 Convention. Everything other than the technical program was superficial. The Convention would succeed or fail

on the ability of the Organizing Committee to put together a strong technical program. This became the foundational aspect to *recovery*. A disproportionate amount of time was directed to the Technical Program and as such the roles of Technical Co-Chairs became a pinch point throughout the planning and execution of the Convention.

The next question to be asked was, "What should the Technical Session look like"? Discussion on this topic broke down to two types of sessions. One style of session was termed a silo session (ie: Seismic Data Processing, Structure, well logging in tight carbonates, etc.). This was the typical technical presentation of previous technical programs. A new type of integrated session was conceptually discussed. In this case the session would focus on a project area and the papers presented in the session would cover a variety of disciplines within that project. Most members tend to work in integrated multi-disciplinary teams. As such the Integrated Session would be a new concept to the convention but would also be a style that would be familiar to the membership.

At the time of inception, the Integrated Session was recognized to be a risk. The concept was a change and as such the entire management of change had to be handled carefully. The Steering Committee fully endorsed the idea but it was important that the idea be introduced to the broader population carefully. If the Integrated Sessions were to be successful then they needed to have excellent leadership. The role of the Session Chair became very important. The Societies were dependent on a successful convention to deliver the revenue stream and enthusiasm that would be needed for the coming year.

The Convention was dependent on a successful technical session to draw in the membership. The technical sessions were dependent on the session chairs to provide the necessary leadership to be germane to the membership. The role of the Session Chair became the most significant aspect of the Convention and it was on this group the Steering Committee was willing to stake the success of the Convention.



## 2011 Joint Annual Convention of the CSPG, CSEG, CWLS (con't)

A brainstorming session in the Spring of 2010 created a list of possible sessions for the technical program. As a follow-up, a list of potential session chairs was developed. If a strong willing session chair could not be found the session would not be run. It was emphasized to the Session Chairs that they would have to help with the recruitment of the talks. If this was too difficult then they would have to withdraw their name from being a session chair. At the beginning of each session time was reserved for the Session Chair to introduce the topic and explain how the session had been structured and why that particular order had been set. This introduction served multiple purposes. It gave the audience some insight into the broader themes. It helped the speakers understand some of the context, but most importantly it gave the Session Chairs the opportunity to be accountable to the audience and to give guidance and direction to the theme – essentially two building blocks of leadership.

### The Venue

Visually, the greatest change that the delegates would experience was the change in Venue from the Stampede Grounds to the TELUS Convention Centre and Hyatt Hotel. The Convention Centre was viewed to be a superior location for the following reasons:

1. Cost
2. Convenience – located downtown
3. Hyatt Regency Hotel – ballroom was used for lunches and socials
4. Variety of rooms – sizing and location
5. Surrounding restaurants and pubs
6. Perceived complacency of the Stampede staff
7. Flexibility of food and beverage service

There were concerns about the Exhibit space, the fear that delegates would find it too easy to wander back to their offices if a lull were to occur, and all the potential logistical problems that could arise as the convention adapted to new space. With these concerns in mind, the change of venue was made.

In general the response to the change in venue was overwhelmingly positive. The concerns proved to have validity but the advantages were far greater than the disadvantages and it is anticipated that future years will find the new venue better as some of the logistics gets smoothed over.

### Exhibits

The greatest risk to the change in venue was to the Exhibit Program. The new exhibit floor was smaller than previous years and the space would need to be wisely managed. Again, a basic question was asked of the Exhibit sub-committee, “What is the benefit to the Exhibitors?” If the Exhibit Program is to work then the experience must be positive for both the delegates and the Exhibitors. The delegates want to see what new technologies are available, who is doing what in the service industry, and how to look at the booths without feeling set upon by over-stimulated sales staff. The Exhibitors needed high traffic and high energy on the exhibit floor.

The Convention Committee felt that the Exhibit Hall needed to be a natural gathering place where there was a feeling of fun and enjoyment. In this way the delegates would be encouraged to come to the floor. The opening of the Exhibit Show was delayed until 4:00 pm on Monday to coincide with the Icebreaker. This was another significant change from previous years. Traditionally, there is great competition for the delegate’s time on Monday morning. For many delegates the Monday morning operational meeting at work must be attended and as such they will not get to the conference until late Monday morning or after lunch due to obligations at work. On-site registration is busiest Monday morning. Many of the technical sessions run some of their best talks early in the conference to draw in the most delegates (much like competing television stations at primetime). To add the opening of the Exhibit Hall to this busy time creates too much competition for the delegate’s attention. By delaying the opening of the Exhibit Hall to complement the Icebreaker a sense of anticipation developed. Placing the Icebreaker in the Exhibit Hall has

become routine however the positioning of the bars in the corners of the room and placing several smaller food stations throughout the room was a significant change. The concept was to get delegates moving throughout the room and avoid any dead spaces on the Exhibit Floor. This seems to have been accomplished and the feedback from the Exhibitors has been strongly positive. There were several lessons learned on how to handle the logistics better in the future but the overall concept of the Exhibit Hall seemed to be well received.

### Posters

Posters seem to have become the problem child of the Technical Program. The challenge with the Poster program is getting the delegates to spend adequate time with the posters. The Poster committee made a strong effort to accommodate as many posters as possible. The quality in the poster session was extraordinary. The venue required that there be two poster locations. With some minor changes to lay-out and positioning of coffee stations it is felt that the Poster session can be strongly improved. The quality of the science continues to improve on the posters. In the future the trick will be to lay out the floor design to give better traffic access and visibility for the delegates.

### Earth Science for Society (ESFS)

Earth Science for Society (ESFS) is a popular exhibit for the general public and is viewed generously by the members of society. ESFS operates relatively independently. It uses space that would not be high priority to the rest of the convention and its volunteers are self-generated. There is some repetition with sponsorship but it is better to handle the sponsorship as part of the overall sponsorship of the Conference and avoid double-dipping and competition.

The session is well attended by school groups and is a popular event with the general public and members on the Sunday prior to the convention.



## 2011 Joint Annual Convention of the CSPG, CSEG, CWLS (con't)

### Light Up The World (LUTW)

This charity raised ~\$13,000 through a silent auction that closed during the Tuesday Night Social. There are likely a number of different charities that could be approached to fill this slot but it seems that LUTW strikes a chord with the membership and receives reasonable support. There is a dedicated core group of member volunteers that work hard for the charity.

### Sponsorship

Sponsorship was a success for the conference. The budget was set to stretch the Sponsorship Committee and they succeeded in meeting their goal (\$400k). Despite the success, sponsorship is one of the facets of the conference that can be greatly improved upon. The challenge for Sponsorship is that it is done on a year-to-year basis without a coherent marketing plan in place to help guide the sponsorship effort. Sponsorship has been traditionally restricted to a fairly narrow list of businesses with direct ties to the professions represented by the majors. As a Marketing Plan is developed, the scope of sponsorship will broaden and it is anticipated that there will be a large increase in the sponsorship budget.

### Monday Night After Party

Mixed reviews on the need to hold an after-party. With the new venue there are several places that can hold gatherings, especially hospitality suits and a designated after-party may not be needed. This event is under review.

### Core Conference and Core Meltdown

This event is very popular and is consistently a near sell-out. There are logistics problems associated with the serving of alcohol that will need to be addressed by next year's committee. The Core Conference is a good wrap-up to the main convention and seems to be able to hold a significant crowd. One challenge this year was the difficulty in attracting enough presentations. The talks need to be actively solicited as few

will submit work unless encouraged. One advantage to the presenters is the amount and quality of feedback that they receive on their work.

### Marketing

15 publications were contacted about possible in-kind advertising arrangements. Of those 15 publications contacted, 6 signed in-kind agreements for this year's convention including GeoExPro, Earth Magazine and three of Junewarren-Nickel's Oil and Gas publications. While no money was exchanged, we did get a total of 25 advertisements in the publications. As the convention begins to look at a marketing plan, in-kind agreements should be a part of the plan as it's a good way to foster relationships with publications and access markets that we don't traditionally target.

A database of past delegates, exhibitors, sponsors etc. was created along with a template email with convention branding and sponsor recognition. Several emails were sent to this database reminding them about deadlines, technical program changes, and special events taking place. Moving forward, email campaigns should be a part of the long-term and short-term marketing plans.

### Appendix 1:

#### Brainstorming Session – June 9, 2010 Possible Session Topics

The following are some of the comments that came from our Brainstorming session:

1. Sessions should be a mix of integrated sessions and silo sessions
2. Unconventional session suggestions:
  - a. Marcellus
  - b. Duvernay
  - c. Montney
  - d. Exshaw/Bakken
  - e. Cardium
  - f. Rock Creek
  - g. Viking
  - h. Nik/Falher
  - i. Horn River

### 3. Other Sessions:

- a. Arctic
- b. East Coast
- c. CCS
- d. Oil Sands
- e. CBM
- f. EOR
- g. Shale Oil
- h. Shale Gas
- i. Deep Basin
- j. EOR

### 4. The importance of the Session Chair was emphasized many times

5. The concept is that within these integrated sessions there will be an implied workflow much like a company would go through to identify potential resource plays ie: Petrophysics, economics, environmental, data processing, operational, reserve definition, strategy, geology, geophysics, Engineering, etc.

### Appendix 2:

#### A Generic Session for the 2011 Convention

- |                      |                                                |
|----------------------|------------------------------------------------|
| <b>8:00 – 8:20</b>   | Introduction of the session<br>– Session Chair |
| <b>8:25 – 8:50</b>   | Technical Talk – Author                        |
| <b>8:50 – 9:15</b>   | Technical Talk – Author                        |
| <b>9:15 – 9:40</b>   | Keynote Address<br>– Keynote Speaker           |
| <b>9:40 – 10:05</b>  | Coffee Break                                   |
| <b>10:05 – 10:30</b> | Technical Talk – Author                        |
| <b>10:30 – 10:55</b> | Technical Talk – Author                        |
| <b>10:55 – 11:20</b> | Technical Talk – Author                        |
| <b>11:30 – 13:30</b> | Lunch                                          |
| <b>13:30 – 13:55</b> | Technical Talk – Author                        |
| <b>13:55 – 14:20</b> | Technical Talk – Author                        |
| <b>14:20 – 14:45</b> | Technical Talk (2nd<br>Keynote?) – Author      |
| <b>14:45 – 15:10</b> | Coffee Break                                   |
| <b>15:10 – 15:35</b> | Technical Talk – Author                        |
| <b>15:35 – 16:00</b> | Technical Talk – Author                        |



## 2011 Joint Annual Convention of the CSPG, CSEG, CWLS (con't)

16:00 – 16:45 Beer and Bull on Trade Floor – Session Chair

### Appendix 3:

#### Session Chair Description

There has been much discussion over the Session Chair and the importance of this position to the success of the 2011 Convention. The following is a brief description of the qualities that the Conference Committee will be looking for in a session chair:

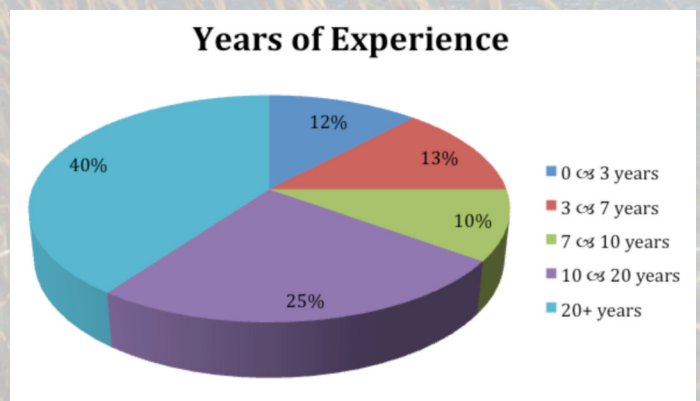
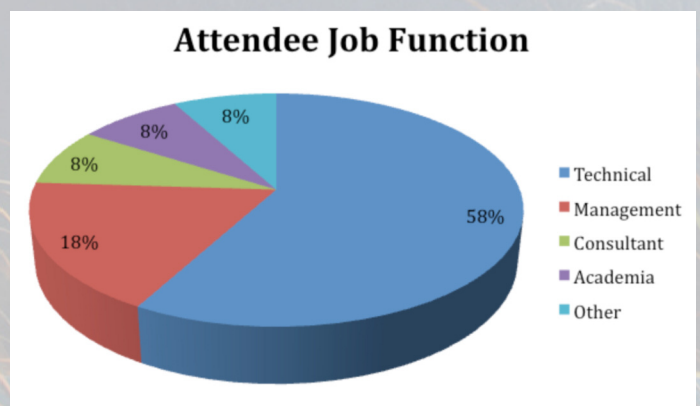
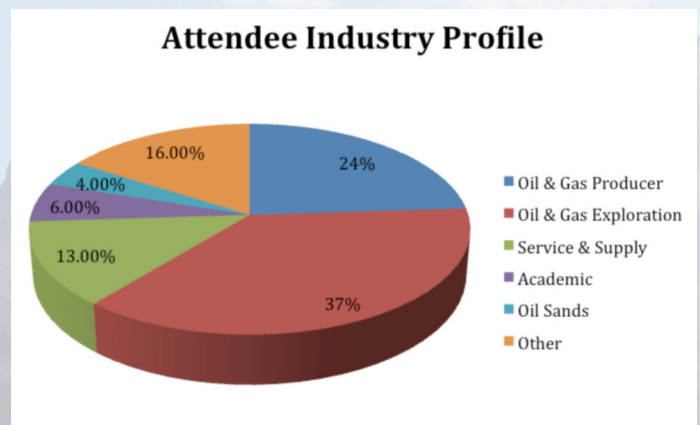
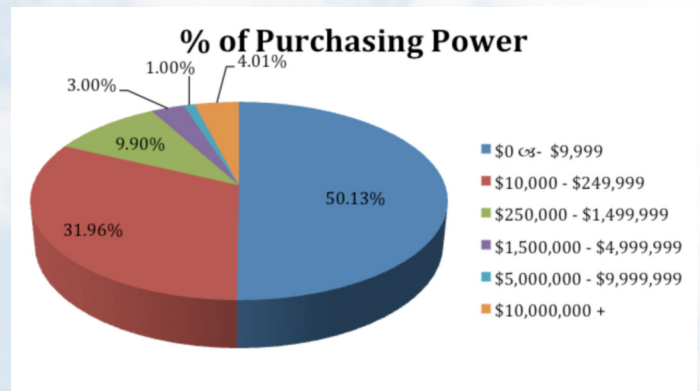
- Cross Discipline thinker
- Experienced
- Integrator
- Gregarious
- Recognized name
- Corporately significant to employer
- Public Speaking skills
- Organized
- Connected
- Dynamic
- Out-going
- Interested in session

The convention organizing committee feels that the conference success lies with how well the session chairs are chosen and how well they understand the vision for the conference. In the past the role of session chair has often been a glorified time keeper. That description must change if the conference is to succeed. In 2011 the session chairs are allotted 20 minutes to introduce their session and to give background into how and why the session is arranged as it is. In this period the session chair will explain significance of the topics and contribution of the papers to that significance. It is anticipated that the Session Chairs will actively recruit up to half of the talks and posters in their session. At the end of the session the chair is afforded another opportunity to give thoughts on the presentations and to reflect on some common themes. This year the Session Chairs are expected to provide leadership to the session, to set the tone in the session and to guide the session through what is hoped to be a significant contribution to the science, the enlightenment of the audience and the benefit of the sponsoring Societies.

These positions will be recruited and as such the committee is looking for names of people that they could approach to lead specific sessions. The goal is to have the session chairs arranged by the beginning of October. This is an aggressive approach but it is of such importance to the quality of the conference that we should be leading with finding good leadership in our sessions.

### Appendix 4:

#### Demographics of Attendees





## 2011 Joint Annual Convention of the CSPG, CSEG, CWLS (con't)

### Appendix 5:

#### Post Convention Brainstorming Session

#### recovery 2011 Organizing Committee Meeting Notes

Wednesday June 1, 2011  
CSPG / CSEG offices – main boardroom  
12:00 PM – 1:00 PM

#### Introductions

##### *In attendance:*

Paul MacKay, CSPG General Co-Chair  
Simon Corti, CWLS Technical Co-Chair  
Laurie Bellman, CSEG Technical Co-Chair  
Per Kent Pedersen, CSPG Technical Co-Chair  
Rudy Strobel, Core Conference Chair  
Carmen Swalwell, Sponsorship Chair  
Doug Bogstie, Finance Chair  
Dave Clyde, Technical Communications Chair  
Grand Spencer, Awards & Judging  
Elaine Honsburger, Awards & Judging  
John Cody, CSPG General Co-Chair for 2012  
Satinder Chopra, CSEG General Co-Chair for 2012  
John Fernando, CSEG Technical Co-Chair for 2012  
Alyssa Middleton, Sponsorship & Exhibits Coordinator  
Aileen Lozie, Convention Manager

#### Regrets:

Rob McGrory, CSEG General Co-Chair  
Satyaki Ray, CWLS General Co-Chair  
Kristi Gartner, Special Events Committee Chair  
Judi MacDonald, Exhibit Committee Chair  
Darren Singleton, Posters Chair  
Rick Wierzbicki, Public Outreach Chair  
Craig Van Dongen, Current Light Up the World Chair

#### Items Discussed:

- Things that didn't work:
  - We need to broaden the Canadian and International views
  - We need a marketing plan
  - Need pour-over coffee service
  - There were some Audio Visual Issues (room set-up, lack of understanding)
  - Room allocations need to be looked at
  - Security/badge scanning needs to be looked at
  - Visibility of Volunteers (turns out they do need t-shirts)
  - Posters in the South Building
  - GES (good on-site, terrible leading up to show)
  - Need back-up for missing talks and no-show talks
  - Abstract submission process needs work
  - Core meltdown 'beer gardens' didn't work
  - Cost of drinks and ability to use drink tickets at both Monday night event and Tuesday night event was an issue
  - Peer review of papers
  - Need to enforce a 'ban' for those authors/institutions with no-show presenters/papers

#### • Things that worked:

- LUTW was successful and enjoyed the format this year, it has good synergy with the convention
- Integrated sessions worked
- Venue/location worked for most people
- Posters in the North Building
- Registration
- Technical quality/focus
- Session chairs
- Core Conference – format and location
- Good value for the price
- Awards & judging format worked
- Good vision was established early on in the planning process
- Good volunteer commitment
- Planning

*Paul MacKay*  
*CSPG General Co-Chair*

*Rob McGrory*  
*CSEG General Co-Chair*



## RECORDER

Thirty two technical articles and nineteen semi-technical or articles of a general nature were published in the ten issues of the RECORDER in 2011. The ten issues focused on specific themes listed below.

- Shale gas
- Multidisciplinary studies
- Value added geophysics
- Marine geophysics
- Geomechanics
- Seismic attributes

- Microseismic processing/case studies/geomechanics
- Exploring unconventional reservoirs

As has been customary, each issue of the RECORDER carried an interview, with three issues carrying two of them. As per the feedback from the members it turns out that the interviews continue to be the most widely read column. The following eighteen eminent geoscientists and two students were interviewed during 2011.

- Rainer Tonn
- Basim Faraj
- Paul Mackay
- Rob McGrory
- David Gray
- Carl Sondergeld
- Mike Corrigan
- Marian Hanna
- Cheran Mangat
- Doris Ross
- Carmen Swalwell
- Penny Colton

Rainer Tonn



Basim Faraj



Paul MacKay



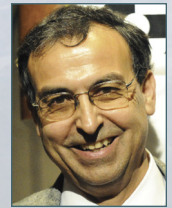
Rob McGrory



David Gray



Carl Sondergeld



David D'Amico



Don Umbsaar



Chris Bird



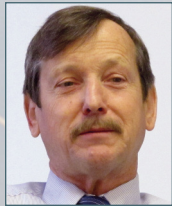
Peter Gagliardi



Doug Oldenburg



Malcolm Lansley



- Flo Reynolds
- Elaine Honsberger
- Annette Milbradt
- Don Umbsaar
- Chris Bird
- Peter Gagliardi
- Doug Oldenburg
- Malcolm Lansley

All the technical articles published in the RECORDER are also included in the SEG's Digital Cumulative Index (DCI).

*Satinder Chopra* (Arcis Seismic Solutions) stepped down as the Chief Editor in September after eleven years of dedicated service to the RECORDER. *John Fernando* joined the RECORDER Committee as Chair and the Chief Editor and his focus has been to uphold the quality of the content going into each issue. After bringing on more members to the RECORDER Committee and introducing fixed terms for the members a couple of years ago, this year some of the members had to leave the

committee on account of personal reasons and we thanked them for their valuable service and contribution. These members were Eric Anderson (Talisman), Tara Motamedi (EnCana) and Rob Ferguson (U of C). Megan Brown (Talisman) and Mohammed Al-Ebrahim joined the committee and are lending a helping hand with their contributions to the RECORDER.

We would like to thank *Oliver Kuhn*, former Technical Editor for the RECORDER and CSEG Past-President, for editing all of the





## RECORDER (con't)

interviews, and contributing the semi-regular 'Science Break' articles. *Carmen Swalwell* (Swalwell Consulting) continues to serve in her role as a Regular Contributor for the Tracing the Industry column. As well *Kristy Manchul* continues to serve in her role as a Regular Contributor for the Grapevine column. *Jim Racette* and *Sheryl Meggeson* are always available for liaison and help, in addition to their organization of advertising material and related things.

The PRINTMAN, Calgary, provides graphic design, production, and printing

services for the RECORDER, and has been found to be satisfactory in terms of quality and efficiency.

The RECORDER production expenses during 2011 were at par with the advertising revenue. This has been possible because of the restriction put on the number of pages published in each issue and which is in accordance with the directive of the CSEG Executive that each arm of the CSEG should function as a cost-effective/ profit making entity.

All issues of the RECORDER published

in 2011 are available on the CSEG website ([www.cseg.ca](http://www.cseg.ca)). We have continued in our attempts to maintain and enhance the quality of the RECORDER and we hope to serve our members with more technical content each month.

*Satinder Chopra*  
Past Chief Editor

*John Fernando*  
Chair

## Canadian Journal of Exploration Geophysics

The Canadian Journal of Exploration Geophysics (CJEG), the peer-reviewed journal of the CSEG since 1965, has been revived! CJEG was placed in a dormant state in 1999 due to the cost of printing and mailing. Recently an electronic issue of CJEG was published in June 2011, containing six peer-reviewed papers.

Today, the costs of publishing a technical journal are greatly reduced by electronic publication. Electronic publication obviates the need for printing and postal delivery. Moreover, academics receive more "merit points" from granting agencies for publishing in a peer-reviewed journal such as CJEG. Therefore, in October 2010, the CSEG Executive charged Larry Lines with the revival of the journal in electronic format. Lines, a former Editor for CSEG (1995, 1996) and SEG (1997-1999), enlisted a team of editors with experience in CSEG and SEG journal editing. Satinder Chopra, Chief CSEG Editor of the RECORDER, agreed to serve as a co-editor of the revived CJEG. Thus far, the CJEG Associate Editors include Sven Treitel (SEG Editor 1995-1997), Patrick Daley (former SEG Special Editor) and Kris Innanen (currently Associate Editor of Geophysics for inversion).

A call for papers went out early in 2011, and as of February 2012, the journal has received 14 submitted papers. CJEG published the six articles in the June 2011 issue, which is now available on the CSEG website. There are six papers under revision and two under review. It is anticipated that the second issue of CJEG will appear during the spring of 2012.

All the journal papers are peer-reviewed through a standard process in a timely fashion, with a desired turnaround time of less than 3 months. Papers are generally reviewed by two reviewers with technical expertise. The criteria for submitted papers is outlined on the CSEG web site.

The PRINTMAN, Calgary provided composing/printing services for the CJEG, and has been found to be quite satisfactory in terms of quality and efficiency.

The review process for the submitted papers uses the following criteria:

1. The paper should be technically correct.
2. The paper should discuss a relevant technical topic in applied geophysics which is of interest to members of CSEG.

3. Papers should have correct English grammar and spelling.
4. Papers should be clearly written for a general exploration geophysics readership.
5. The text of papers should be in Word format. Illustrations should have high quality resolution in .tif or .jpeg format.

Papers may be submitted to the Editors, Larry Lines at [lrines@ucalgary.ca](mailto:lrines@ucalgary.ca) or Satinder Chopra at [schopra@arcis.com](mailto:schopra@arcis.com). While the first issue of the journal has contained six papers, we are constantly receiving papers from noted international geophysicists. Our goal is to publish 1-2 issues of the journal every year. To achieve this objective, we are encouraging papers from exploration geophysicists around the world. At present, copies of CJEG are available on the web site to all CSEG members.

*Larry Lines and Satinder Chopra,*  
Editors of CJEG



## The CSEG Foundation

A simplified version of the CSEG Foundation mandate is to *increase awareness of and fund activities towards education in the science of geophysics and earth science through the operation of a number of very worthwhile activities in the field of geophysics*. The CSEG Foundation (CSEGF) was very active the past year, both locally and across Canada. Firstly & mostly, I must heartily thank our very large group of volunteers, and our Board members for their excellent & diligent work.

Each year we get a little better at what we do, through the organization and efforts of those volunteers and through funding – from you. We receive generous donations from members as well as substantial funding from the CSEG itself. Our goal is to raise enough funds to be able to increase our ‘corpus’ of ~\$800,000 to \$1 million and eventually to \$3-\$4 million. Our 2012 budget is ~\$185,000; the good news is that currently our **net** expenditure annually is \$5K – \$10K – the remainder is funded by the CSEG. Basically the Foundation is the charitable operating arm of the CSEG in the realm of student outreach and scholarship/funding activities – across Canada. We will embark upon a fund raising campaign (Co-chairs: John Boyd & Brian Russell) in 2012, and look forward to your ongoing support and some interesting activities.

### We have four main operational activities:

1. **University & Technical School Scholarships** (report follows): 18 scholarships of \$2,000 each were awarded this past year, thanks to funding from 21 companies. 2011 Chair: Hassan Odhwani, 2012 Chair: Matt Klukas.
2. **Outreach Activities** (report follows): literally a small army of volunteers are working with and supporting university students across Canada, as well as students, teachers and the general public – from coast to coast. Outreach has blossomed into an extremely active organization that is spreading the CSEG name – and exposure to the science of geophysics across the country. Outreach was a catalyst and source of many volunteers for the excellent *Earth Science for Society* exposition at our annual geoscience convention. Past Chair: Annette Milbradt, Current Chair: Mark Lane.
3. **Canadian Distinguished Lecture Tour** (report follows): a CSEG distinguished lecturer travels to approximately 20 (mostly university) locations across Canada between September and March. Coordination with University Student Outreach (Stephen Kotkas, Chair) and the Ambassadors Program (Torr Haglund, Chair) is expanding our audiences through increased awareness and the inclusion of receptions at some events. Thanks to Satinder Chopra, the 2010-2011 ‘CD Lecturer’ and Lee Hunt, our current CD Lecturer. Past Chair: Dr. Igor Morozov, current Chair: Annette Milbradt.
4. **Travel Grant & Learning Subsidy Program**: \$10,000 annually is awarded to university students to assist in their study of geophysics. Current committee: Kevin Bianchini & Jessa-lyn Lagroix.

Looking back to the 2004 CSEG Past Presidents Luncheon – there was a groundswell of drive and support for the CSEG to enhance its outreach and support of students and general

recognition/awareness in the eyes of the public. You gentlemen and ladies had the vision, and we are simply helping to make it happen. Special recognition should also be given to a founder of the CSEG Foundation, Bill Goodway, who retired from our ranks this year.

The Board has established Terms of Service, Succession Plans, Nominations Process, Donor Recognition Plan and is in the process of building a funding plan. Current terms of service are three (3) year terms. The CSEG Executive has ultimate control of the CSEG Foundation through our articles of incorporation.

*Current Foundation Members are:*

*Chair:* Perry Kotkas

*Past Chair:* Brian Russell (CGG/Veritas)

*Secretary:* Laurie Ross (Divestco)

*Treasurer:* Neil Rutherford (Consultant)

*CSEG Executive Member:* Larry Herd (RPS Boyd Petrosearch)/Rob Kendall (Petrobank)

*Scholarship Chair:* Matt Klukas (Talisman)

*Scholarship Sr. Trustee:* Sarah Cutten (ARC Resources)

*Scholarship Jr. Trustee:* Marc Boulet (Apache)

*Director-at-Large:* John Boyd (RPS BoydPetrosearch)

*Director-at-Large:* Annette Milbradt (Tourmaline)

*Board Committee Members:* Hassan Odhwani, Kevin Bianchini, Jessa-lyn Lagroix, Mark Lane

### The CSEG Foundation Scholarship Report – 2011

The CSEG scholarship committee began its fundraising efforts for 2011 scholarships in February 2011 with a presentation at the February CSEG luncheon. The economic conditions in early 2011 were still on the down side just as the previous year; therefore, we were concerned about the level of funding we would receive. We are happy to report that many of our long term donors continued their support and several companies and individuals contributed for the first time. The CSEG Foundation scholarship committee received funding from 21 Calgary based Oil and Gas companies, Service companies, Individuals and Trust Funds to grant scholarships in the amount of \$2000 to 18 deserving students from Universities across Canada. Compared to the 16 scholarships that were granted in 2010, this is a slight increase therefore we were very pleased with the amount of funding received. The scholarship committee would like to sincerely thank all of the donors for their continued support in helping geophysics students across Canada reach their academic goals during these difficult economic times. The number of applications received from students across Canada was slightly up in 2011. The slight increase in applications was mainly from universities in Western Canada. We also noticed a slight decrease in applicants from Eastern Universities. For this reason, we have taken a few



## The CSEG Foundation (con't)

new initiatives to promote the CSEG Foundation scholarships and create awareness across universities in Canada. For the 2012 year, we have started to promote the Scholarships through our Distinguished Lecturer. Emails from the CSEG office were also sent to all of the students in the database to remind them to apply for the CSEG Foundation Scholarship. The University Student Outreach (USO) committee advertised through numerous outlets on our behalf including:

- CUPC – Canadian Undergrad Physics Conference
- WIUGC – Western Interuniversity Geoscience Conference
- AUGC – Atlantic University Geoscience Conference
- GeoSkills Day
- CSEG Student Field Trip
- USO quarterly newsletter

We would like to thank the USO committee for their efforts. The scholarship committee has again realized that there are many smart, talented, involved and deserving students across Canada that we previously had not been reaching. The scholarship committee will continue their advertising efforts through partnerships with the USO, CSEG office as well as increase our fundraising efforts going forward in order to be able to award these deserving students a CSEG Foundation Scholarship. (Please see the CSEG Foundation Scholarship Committee report on page 24.)

### CSEG Foundation Outreach Committee Report – 2011

The CSEG Foundation Outreach Committee is run by volunteers and funded extensively through the CSEG Foundation. We appreciate the support of the CSEG Executive and the Foundation over the past year.

Through 2011 the Outreach Committee continued its busy schedule, fulfilling our mandate of promoting the CSEG and the science of geophysics. Core committee members include Lori Barth, Kevin Bianchini, Louis Blinn, Charles Boyer, Candace Bruins, Torr Haglund, Paul Hausmanis, Helen Isaac, Amanda Knowles, Perry Kotkas, Stephen Kotkas, Mark Lane, Annette Milbradt, Keith Millis, Hassan Odhwani, Bob Parker, Gabriel Solano, Kathryn Welsh, and Marissa Whittaker.

Supporting the committee in its many initiatives is a very large group of volunteers. Thanks to those who generously gave their time and energy, making this another highly successful year for the Committee: Linden Achen, Larry Adorjan, Alem Aklilu, Mohammed Al Ibrahim, Janet Anstett, Andy Ayer, Stephanie Benay-Dexter, Ted Best, Shminder Bhathal, Maren Blair, Marc Boulet, Tina Bozic, Ryan Burnham, Petra Buziak, Jeff Calvert, Judith Chan, Karen Chong, Mark Ciccone, Eric Clarke, Jennifer Cranshaw, Jeff Crowhurst, Sarah Cutten, Greg Davidson, Lance Derkach, Greg Deutscher, Vince DeWolfe, Jill Dreger, Steve Dryer, Michael Eberhard, Carter Edie, Jen Elgar, Nanna Eliuk, Dennis Ellison, Alasdair Fergusson, Nathan Fester, Ronaldo Florendo, Adam Flynn, Aaron Foyer, Jocelyn Frankow, Craig Funk, Peter Gagliardi, Devin Gagnier, Brian Gamble, Ranald Gault, Jeff Gautreau, David Germsheid, Jason Glubish, Rick Green, Ernie Greenwood, Fran Haidl, Eugene Han, Rafik

Hanna Alla, Rebecca Haspel, Simon Hayes, Melissa Hernandez, Steven Hill, Tal Hogbin, Thomas Hollis, Holly Hood, Kelly Hrabí, Mark Jeroncic, Rhonda Jewett, Juan Joffre, Phil Keith, Hassan Khaniani, Salma Khatun, Matt Klukas, Michelle Korodimas, Lawrence Kwak, Jessa-lyn Lagroix, Ron Larson, Caitlin Latimer, George Lau, Carol Laws, Claudine Lee, Tom Lemon, Jennifer Leslie-Panek, Janet Ling, Darryn Listwan, Heather Lloyd, Jaime Lo, Daniel Loas, Sean Lovric, Jessa Lyn-Lagroix, John MacDonald, Tyler MacFarlane, Marko Mah, Glenn Malcolm, David Manthei, Abraham Masri, Katy McKercher-Ma, Lynsey McKinnon, Shafeena Meghji, Shamez Meghji, Karin Michel, Steven Milbradt, Aliyyah Mohamed, Devika Naidu, Melissa Newton, Matthew Ng, Matteo Niccoli, Andrew Nicol, Haley Nielsen, Godfrey Nolan, Andrew Nuytten, Brad Ohler, Jeff Packard, Kyla Poelzer, Neil Praught, Mike Preiksaitis, Lijun Qi, Samuel Quiroga, Pam Rempel, David Reynolds, Danielle Robertson, Doug Robertson, Sean Roche, Mike Rogers, Brian Rutherford, Neil Rutherford, Shahin Sabbari, Alex Saldana, Hong Sang, Chris Savels, Tacita Schmidt, Veronica Sekella, Diane Shao, Nancy Shaw, Alex Shrake, Samantha Siegal, Vladan Simin, Nav Sira, Claus Sitzler, Steven Smith, Michael Smorodin, Tom Sneddon, Krista Solvason, Scott Spackman, Warren Stepaniuk, Dan Sudeyko, Mark Sun, Peter Sung, Michelle Surette, Humam Tamimi, Daisy Tao, Chris Thompson, Susan Thomson, Katie Underwood, RJ Vestrum, Blayne Wagemakers, Reece Weigel, Rachel Wierzbicki, Rick Wierzbicki, Zak Wierzbicki, Caroline Williams, Jay Williams, Allan Willis, Barb Wingate, April Wolff, Alex Wright, Alex Wright, Caitlin Young, Ryan Zahynacz, Liliana Zuleta, and Lauren Zvanciuk.

Your time and efforts are much appreciated! Thank you, also, to the many organizations who allowed their staff to participate in our many programs and initiatives.

Helen Isaac chaired Schools Outreach from January to September, then passed the torch to Louis Blinn. Perry Kotkas chaired Public Outreach, with Annette Milbradt taking over in September. Our dedicated and enthusiastic volunteers attended 19 career fairs and assorted exhibitions in 2011, talking to students and the public about geophysics. We took our booth to Vancouver, Kamloops, Kelowna, Winnipeg, Saskatoon, Regina, Canmore, Edmonton, and Toronto as well as to local venues in the Calgary area. With the booth we present the science of geophysics using PowerPoint, interactive seismic displays and other teaching aids. Volunteers also responded to requests from schools for in-school presentations. From May 8th to 10th 2011, thousands of students, teachers, and general public attended the Earth Science for Society Exhibition (ESfS). ESfS is a major public outreach initiative that has become an extremely popular annual event, running for its second year in 2011 and scheduled to continue in 2012. The new venue at the Calgary TELUS Convention Centre and revised show hours on Sunday afternoon improved public attendance. The exhibition showcases hands-on activities and dynamic demonstrations of Earth Sciences for people of all ages and interests. Visitors participated in activities in four themed pavilions: Resources and You, Energy for Us, One Dynamic Earth, and Our Future! We appreciate the support of sponsors, exhibitors, and volunteers at ESfS. In October, CSEG Outreach hosted students



## The CSEG Foundation (con't)

from Henry Wise Wood and Centennial high schools, Juno Beach Academy, and the Career and Technology Center at the Seismic in Motion for Students (SIMfS) event, where companies showcase their seismic acquisition technologies and procedures. Outreach volunteers visited the schools beforehand and informed students about careers in geophysics and prepared them for their day in the field. They also guided the students on-site through the various field stations, including the CSEG booth. At the booth, we provided participants with an integrated overview of the various parts of the program. Thank you to 2011 SIMfS sponsors for their generous support: ConocoPhillips, Imperial, Olympic, Encana, Apache, Cenovus, Nexen, CNRL, Chevron, Shell, Enerplus, and Sigma. We received positive feedback from participants in all of our Schools and Public Outreach initiatives.

The University Student Outreach subcommittee is led by Stephen Kotkas. Its activities included bringing the Outreach booth to four undergraduate conferences, attending two University career fairs, presenting Best Geophysical Paper awards at two undergraduate conferences, maintaining e-mail and newsletter communications with students, connecting students with the Scholarship committee and the Foundation for travel grants, organizing a student area at the convention, helping to deliver Geoskills 2011 for university students and junior geophysicists, providing networking opportunities, and running a one day summer student field trip in June for over 40 participants. The USO also cooperates with other organizations to administer events such as AAPG's Imperial Barrel Award, CSEG/EAGE's student chapter talks, and APEGGA's Alberta Student Energy Conference. The Mentorship program was successfully launched in 2009, and in 2010-11 grew significantly, greatly increasing its value to our university student members. We are pleased to recognize and thank Apache for their generous sponsorship of 2011 student memberships. We greatly appreciate it!

The 2011 Challenge Bowl subcommittee was led by Mark Lane and supported by many volunteers, notably Stephen Kotkas and his USO team. In keeping with tradition, the dynamic Peter Duncan acted as host and moderator, steering eight teams of competitors and an enthusiastic audience through the action-packed geoscience competition. Chris Bird and Peter Gagliardi, representing the University of Calgary, took the top score and won an expense-paid trip to compete in the Challenge Bowl finals at the 2011 SEG convention.

CSEG Outreach members volunteered on the Honorary Address (HA) committee, chaired by Marissa Whittaker. This year's event took place in October, with the theme Fire and Ice: Adapting to Planetary Change. Catherine Hickson, a volcanologist and currently VP Exploration at Magma Energy Corp (a geothermal power company) spoke about the geothermal powers of volcanoes, while Jeff Bond, a Yukon Geological Survey surficial geologist, spoke about glaciation in North America and human migration. About 1,200 actively engaged students attended the daytime talks at the Southern Alberta Jubilee Auditorium. About 500 members of the public attended the evening event, while Outreachers manned the CSEG booth in the lobby.

Ambassadors are CSEG representatives in cities across Canada and internationally. In 2011, under Torr Haglund's guidance, the program expanded significantly and included meet-and-greet opportunities for CSEG members and university students throughout Canada.

Outreach members liaise with many other organizations to share outreach and education ideas and resources and to support their complementary geoscience initiatives. As our resources allow, we would like to expand our efforts in central and eastern Canada.

Read our column in the Regular Features section of the RECORDER. Helen Isaac is the CSEG Foundation Outreach publications coordinator for these reports on Outreach activities.

We're always looking for enthusiastic and energetic volunteers interested in helping with our activities. Contact us at [outreach@cseg.ca](mailto:outreach@cseg.ca) for more information.

*Mark Lane: Chair – August to December 2011*

*Annette Milbradt: Chair – January to August 2011*

## Canadian Distinguished Lecture Tour

The CSEG Foundation sponsors a national Canadian Distinguished Lecture tour every year by a distinguished member of the Canadian Society of Exploration Geophysicists (CSEG). The goal is to promote the science and application of geophysics to those working with, studying, and interested in the science of geophysics and highlights a topic of current interest. The lecturer travels to approximately 20 locations across Canada between September and March. Thanks to Satinder Chopra, the 2010-2011 Canadian Distinguished Lecturer (CDL), who spoke on Extracting Meaningful Information from Seismic Attributes and Seismic Attributes for Fracture Delineation and to Lee Hunt, the 2011-2012 CDL who spoke on Quantitative Interpretation, New Challenges, and Economic Value. For details please visit: <http://www.cseg.ca/education/lecture-tour.cfm>. A special thanks to Dr. Igor Morozov who was chair of this committee for many years. Annette Milbradt will take over as CDL Chair for 2012-2013.

*Perry Kotkas  
Chair*



## CSEG Foundation Scholarship Committee

The CSEG scholarship committee began its fundraising efforts for 2011 scholarships in February 2011 with a presentation at the February CSEG luncheon. The economic conditions in early 2011 were still on the down side just as the previous year; therefore, we were concerned about the level of funding we would receive. We are happy to report that many of our long term donors continued their support and several companies and individuals contributed for the first time. The CSEG Foundation scholarship committee received funding from 21 Calgary based Oil and Gas companies, Service companies, Individuals and Trust Funds to grant scholarships in the amount of \$2000 to 18 deserving students from Universities across Canada. Compared to the 16 scholarships that were granted in 2010, this is a slight increase therefore we were very pleased with the amount of funding received. The scholarship committee would like to sincerely thank all of the

donors for their continued support in helping geophysics students across Canada reach their academic goals during these difficult economic times. The number of applications received from students across Canada was slightly up in 2011. The slight increase in applications was mainly from universities in Western Canada. We also noticed a slight decrease in applicants from Eastern Universities. For this reason, we have taken a few new initiatives to promote the CSEG Foundation scholarships and create awareness across universities in Canada. For the 2012 year, we have started to promote the Scholarships through our Distinguished Lecturer. Emails from the CSEG office were also sent to all of the students in the database to remind them to apply for the CSEG Foundation Scholarship. The University Student Outreach (USO) committee advertised through numerous outlets on our behalf including:

- CUPC – Canadian Undergrad Physics Conference
- WIUGC – Western Interuniversity Geoscience Conference
- AUGC – Atlantic University Geoscience Conference
- GeoSkills Day
- CSEG Student Field Trip
- USO quarterly newsletter

We would like to thank the USO committee for their efforts. The scholarship committee has again realized that there are many smart, talented, involved and deserving students across Canada that we previously had not been reaching. The scholarship committee will continue their advertising efforts through partnerships with the USO, CSEG office as well as increase our fundraising efforts going forward in order to be able to award these deserving students a CSEG Foundation Scholarship.

### 2011 CSEG Foundation Scholarship Committee

Hassan Odhwani – CGGVeritas, *Chairman*  
 Mathew Klukas – Talisman Energy, *Senior Trustee*  
 Sarah Cutten – ARC Resources, *Junior Trustee*

### 2012 CSEG Foundation Scholarship Committee

Mathew Klukas – Talisman Energy, *Chairman*  
 Sarah Cutten – ARC Resources, *Senior Trustee*  
 Marc Boulet – Apache Corp, *Junior Trustee*

### 2011 CSEG Foundation Scholarship Winners and Donor Companies

Recipient	University	Donor
Eric-Martial Takam Takougang	Simon Fraser University	Apache Corp.
Dunia Blanco Acuna	University of Alberta	Arcis Corporation
Dennis Ellison	University of Calgary	Canadian Natural Resources Inc.
Alexandria Natalie Shrake	University of Calgary	Divestco Inc.
Dawson Edward Holloway	University of Saskatchewan	Hampson-Russell A CGGVeritas Company
Jordan Carl Jonasson	University of Alberta	Matrix Geoservices Ltd.
Nadia Kreimer	University of Alberta	Nexen Inc.
Diane J. Lespinasse	University of Calgary	PennWest Energy Exploration
Darragh Eoin O'Connor	Dalhousie University	Pulse Seismic Inc.
Ryan James Schultz	University of Alberta	Talisman Energy Inc.
Jennifer Fohring	University of British Columbia	Tesla Exploration
Christine M. Shiels	University of Saskatchewan	Zokero Inc.
Karol Jakub Rohraff	University of Alberta	Larry Lines, John and Cindy Townsley and an Anonymous Donor
Judith Chan	University of Alberta	RPS Boyd PetroSearch and GEDCO
Roohollah Askari	University of Calgary	Sigma Exploration Inc. / Apoterra Seismic Processing Ltd.
Chris James Thompson	University of Calgary	Ted Popilchak Trust Fund
Abdolnasir Yousefzadeh	University of Calgary	Chris Elms Trust Fund
Naimeh Riazi	University of Calgary	Bob Won Trust Fund

### 2011 Donors

Apache Corp.	\$2,000
Arcis Corporation	\$2,000
Canadian Natural Resources	\$2,000
Divestco Inc.	\$2,000
Hampson-Russell A CGGVeritas Company	\$2,000
Matrix GeoServices Ltd.	\$2,000
Nexen Inc.	\$2,000
PennWest Energy Exploration	\$2,000
Pulse Seismic Inc.	\$2,000
Talisman Energy	\$2,000
Tesla Exploration	\$2,000
Zokero Inc.	\$2,000
Anonymous Individual	\$1,000
Apoterra Seismic Processing Ltd.	\$1,000
GEDCO	\$1,000
RPS Boyd PertoSearch	\$1,000
Sigma Exploration Inc.	\$1,000
John and Cindy Townsley	\$500
Larry Lines	\$500
<b>Total</b>	<b>\$30,000</b>

Contributions from the *Chris Elms Trust Fund, Ted Popilchak Trust Fund, Bob Won Memorial Trust Fund, and the CSEG Foundation* brought the total to \$36,000.

*Hassan Odhwani  
 Chair, CSEG Foundation  
 Scholarship Committee*



## 40th Annual Doodlespiel Results

2012 marked the 40th Annual Doodlespiel. The return to Banff and the newly built Curling facility sparked interest in the event to a record level with 100 teams registering. The event had to be capped at 96 teams with a 64 team main draw and a 32 team hole plug event.

The following are the 2012 Doodlespiel Winners:

- A Event:** Larry Herd, Rick Rathier, Roger Edgecombe, Kevin Bowman, Murray Jasman (spare)
- B Event:** Ken Lengyel, Glen Stewart, Joe Pilienci, Steve Widdon
- C Event:** Matt Ng, Joel Kotkas, Igor Senek, Daniel Perez, Fabio Marson
- D Event:** Rob Langill, Glenn Larson, David Wardlaw, Murray Brack

**Hole Plug:** Bill Anderson, Chris Copeland, Larry Cameron, Brett Cameron

The Doodlespiel has grown over the years and the traditions of the event have evolved. This year's event offered a few new wrinkles with a Human Curling competition and a draw to the button competition. The human curling event had 160 participants which made it a little crazy on the outdoor ice but the eventual winner was the team comprised of Brad McDonald, Sarah Cutten, Lyle Cedargren, and John Duhault. The winner of the draw to the button competition was Todd Stuebing.

The turnout for this year's Calcutta was impressive. The door prizes that were handed out were well received. Congratulations to all of the winners. We hope that you enjoyed yourselves.

I would like to thank all of this year's participants and sponsors. Thanks also goes to the volunteers on the committee for all of their hard work that helps this great event run smoothly. The preparation for the 2013 41st Annual Doodlespiel is already underway.

Please go to the Doodlespiel website to view pictures of this year's event. [www.doodlespiel.com](http://www.doodlespiel.com)

Next year in Banff will be better than ever.

*Victor Irwin  
2012 Chairman*

## Lunchbox Geophysics

Lunchbox Geophysics talks in 2011 were:

*Feb. 2011 – Peter Duncan, MicroSeismic – Coping with Really, Really Small (Micro) Seismic Signals*

*Feb. 2011 – Marco Perez, Apache – Developing Seismic Interpretation Templates*

*April 2011 – Peter Cary, Sensor Geophysical – An Investigation into 5D Interpolation with the MWNI Algorithm*

*June 2011 – Brian Link, Tetrale – Integration of well results, forward modeling and duplex wave migration to improve reservoir fracture characterization*

*Oct. 2011 – Mark Ng, Divestco – 3D multi-orientation footprint attenuation using co-ordinate rotations*

*Dec. 2011 – Norm Warpinski, Pinnacle – Hydraulic Fracture Height in Gas Shale Reservoirs*

Rob Holt and I coordinated Lunchbox Geophysics in 2011. Lunchbox is an informal, free of charge lecture series that brings a variety of geophysical topics to CSEG members. There are many people who gave generously of their time this past year to make these talks possible: our speakers who presented talks, Fugro-Kelman volunteers Pat McKenny and Larry Adorjan who supplied the Aquitaine auditorium, the projector, and beverages, Marc Boulet and John Rennie who provided IT support and recorded some of the talks for the CSEG website, and

Mohammed Al-Ibrahim who took pictures at several Lunchboxes. I would personally like to thank Rob Holt for all his help with Lunchbox.

Lunchbox Committee welcomes all interested parties to submit their ideas for future presentations to [Robert.Holt@shell.com](mailto:Robert.Holt@shell.com) or [Julie.Latter@shell.com](mailto:Julie.Latter@shell.com)

*Julie Latter*



## Chief Geophysicists Forum

The CGF has grown to a membership of 66 plus 10 alternate and sub-committee members in 2011. Our 2010 year end membership list ended at 49 members.

The entire membership list including alternate representatives and sub-committee members can also be found on the CGF webpage of the CSEG website at:  
<http://www.cseg.ca/about/cgf.cfm>

The CGF had an awesome year of accomplishments with major milestones including:

- 50th Quartile meeting held in March 2011 since the CGF began in 1999
- CGF webpage on the CSEG website
- CGF Hydrocarbon Reserves document completed and delivered to SPEE for consideration for the COGEH update
- CGF interaction and connection with the SEG OGRC on topic of using geophysics in reserves/resources estimations and classifications

- CGF Micro-seismic sub-committee work ongoing
- CSEG and CSPG Executive interaction as requested in June 2011 for the APEGGA practice standard for authenticating documents still outstanding and will be addressed at upcoming Tri-Society Executive meeting. APEGGA did take into account all valid points made by CGF members and industry in completing the final document now available on the APEGGA website.

### Our 2012 goals to achieve include:

- Ensuring all CGF members are CSEG members
- Putting CGF meeting minutes on the CGF webpage
- Potential CGF Reserves sub-committee help for APEGGA practice standard on same subject

- CGF presentation at CSEG Symposium, March 2012
- Securing at least one paper from Calgary industry for special edition September 2012 TLE for SEG OGRC
- Micro-seismic sub-committee accomplishments
- Starting at 7am for our breakfast and 7:30am for the CGF meeting
- Any other business to address that affects our technical profession and industry

*Marian C. Hanna  
CGF 2011/2012 Chair*

## Junior Geophysicists Forum

Our event was November 1st at the Fairmont Palliser (new venue – very well received) with Andy Williamson speaking this year. There were almost 160 people registered, with a similar split to last year – almost 1/3 each of Student/Junior/Senior geophysicists.

Our committee was comprised of:

Susan Thomson – *Chair*

Rob Vestrum – *Venue*

RJ Vestrum – *Finance*

Mark Lukwinski – *Sponsorship*

Jennifer Welsh – *Event co-ordinator*

Next year, I'm stepping down as Chair and Rob Vestrum has agreed to take the reins. It will be the 10th JGF next year, so should be a good event (and Rob knows how to plan a party!).

*Susan Thomson*

## 2011 DoodleTrain

CSEG's continuing education week, the DoodleTrain, was held during the week of October 31 to November 4. The event was a success with 300 students attending 17 courses. On Wednesday Nov 2, Malcolm Lansley gave the keynote luncheon talk on new developments in seismic acquisition. Course enrollment was up 6 percent over last year. Cash sponsorship was comparable to last year and once again all classrooms were donated by industry venue sponsors. This generous support of industry is key to keeping project costs down and allowing us to bring world-class instructors to the local geophysical community. Outside the classroom the Wednesday evening social was particularly well attended by both students and instructors this year.

Four new courses were added to this year's DoodleTrain curriculum and once again student volunteers, mostly graduate students from the University of Calgary helped out in the classroom in return for complimentary tuition.

Thanks go to the hard-working DoodleTrain committee: Chris Bird, Doug Uffen, Jason McCrank, John Fernando, Maggie Jiao, Mike Hall, Sue Carr, Tom Koleszar, Vicente Oropeza and Bill Nickerson (Chair).

After 10 years with the DoodleTrain, Bill has stepped down from the committee handing the conductors's hat to Doug Uffen who will chair the committee for 2012.



**CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS**  
**Index to Financial Statements**  
**Year Ended December 31, 2011**

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Statement of Cash Flows	4
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## INDEPENDENT AUDITOR'S REPORT

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To the Shareholders of Canadian Society of Exploration Geophysicists

I have audited the accompanying financial statements of Canadian Society of Exploration Geophysicists, which comprise the balance sheet as at December 31, 2011 and the statements of income and retained earnings and cash flows for the year then ended, and a summary of significant accounting policies and other explanatory information.

### Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with Canadian generally accepted accounting principles, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

### Auditor's Responsibility

My responsibility is to express an opinion on these financial statements based on my audit. I conducted my audit in accordance with Canadian generally accepted auditing standards. Those standards require that I comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my audit opinion.

### Opinion

In my opinion, the financial statements present fairly, in all material respects, the financial position of Canadian Society of Exploration Geophysicists as at December 31, 2011, and the results of its operations and its cash flows for the year then ended in accordance with Canadian generally accepted accounting principles.

Calgary, Alberta  
February 29, 2012

CHARTERED ACCOUNTANT

Tel: (403) 250-2777 Fax: (403) 250-2774  
210, 2635 - 37th Avenue N.E., Calgary, Alberta T1Y 5Z6





# Financial Statements

## CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

### Balance Sheet

December 31, 2011

	2011	2010
<b>ASSETS</b>		
<b>CURRENT</b>		
Cash	\$ 794,698	\$ 630,549
Accounts receivable	204,888	127,560
Prepaid expenses	63,265	63,366
	<b>1,062,851</b>	821,475
FURNITURE AND EQUIPMENT (Note 4)	26,398	12,345
RESTRICTED FUNDS	875,000	875,000
	<b>\$ 1,964,249</b>	<b>\$ 1,708,820</b>
<b>LIABILITIES AND SHAREHOLDERS' EQUITY</b>		
<b>CURRENT</b>		
Accounts payable and accrued expenses	\$ 66,112	\$ 78,829
Deferred income	45,761	25,359
	<b>111,873</b>	104,188
<b>NET ASSETS</b>		
Capital assets	26,398	12,345
Internally restricted	875,000	875,000
Unrestricted	950,978	717,287
	<b>1,852,376</b>	1,604,632
	<b>\$ 1,964,249</b>	<b>\$ 1,708,820</b>

#### ON BEHALF OF THE BOARD

\_\_\_\_\_  
Director

\_\_\_\_\_  
Director

See notes to financial statements

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## CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

### Statement of Income and Retained Earnings

Year Ended December 31, 2011

	2011	2010
<b>REVENUES</b>		
Memberships - individual and corporate	\$ 106,293	\$ 101,490
Distinguished lecturers	22,973	15,219
CSPG/CSEG Convention	403,706	233,433
Continuing education	14,920	44,795
Luncheon fees	142,518	102,491
Doodletrain	242,901	180,600
Interest and other	55,252	53,551
Recorder	199,375	172,250
	<u>1,187,938</u>	<u>903,829</u>
<b>EXPENDITURES</b>		
Administration	271,047	288,892
Distinguished lecturer	15,000	15,000
Amortization	15,278	34,037
Bad debts	-	1,170
Recorder	170,410	166,663
Interest and bank charges	1,934	2,499
Distinguished lecturer-SEG	20,762	20,623
Continuing education	7,097	26,585
Outreach	72,500	57,540
Doodletrain	145,346	136,057
Website	11,232	9,172
Convention	-	6,978
Member services	29,379	27,894
Luncheons	135,025	106,891
Professional fees	14,466	21,555
Professional dues	5,718	14,221
	<u>915,194</u>	<u>935,777</u>
<b>INCOME (LOSS) FROM OPERATIONS</b>	<b>272,744</b>	<b>(31,948)</b>
OTHER INCOME	<u>(25,000)</u>	<u>-</u>
<b>NET INCOME (LOSS)</b>	<b>247,744</b>	<b>(31,948)</b>
RETAINED EARNINGS - BEGINNING OF YEAR	<u>1,604,632</u>	<u>1,636,580</u>
<b>RETAINED EARNINGS - END OF YEAR</b>	<b>\$ 1,852,376</b>	<b>\$ 1,604,632</b>

See notes to financial statements

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## CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

### Statement of Cash Flows

Year Ended December 31, 2011

	2011	2010
<b>OPERATING ACTIVITIES</b>		
Net income (loss)	\$ 247,744	\$ (31,948)
Item not affecting cash:		
Amortization of property, plant and equipment	15,278	34,037
	<b>263,022</b>	2,089
Changes in non-cash working capital:		
Accounts receivable	(77,328)	(41,588)
Accounts payable	(12,717)	19,075
Deferred income	20,402	4,688
Prepaid expenses	100	8,635
	<b>(69,543)</b>	(9,190)
Cash flow from (used by) operating activities	<b>193,479</b>	(7,101)
<b>INVESTING ACTIVITY</b>		
Purchase of property, plant and equipment	<b>(29,330)</b>	-
<b>INCREASE (DECREASE) IN CASH FLOW</b>	<b>164,149</b>	(7,101)
Cash - beginning of year	<b>1,505,549</b>	1,512,650
<b>CASH - END OF YEAR</b>	<b>\$ 1,669,698</b>	\$ 1,505,549
<b>CASH FLOWS SUPPLEMENTARY INFORMATION</b>		
Interest received	<b>\$ (50,632)</b>	\$ (45,890)
Interest paid	<b>\$ 1,934</b>	\$ 2,581
Income taxes paid	<b>\$ -</b>	\$ -
<b>CASH CONSISTS OF:</b>		
Cash	<b>\$ 794,698</b>	\$ 630,549
Term deposits	<b>875,000</b>	875,000
	<b>\$ 1,669,698</b>	\$ 1,505,549

See notes to financial statements

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## CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

### Notes to Financial Statements

Year Ended December 31, 2011

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#### 1. NATURE AND OBJECT OF THE SOCIETY

The Canadian Society of Exploration Geophysicists (the Society) was established as a Society under the Societies Act of Alberta on December 20, 1949 as a not-for-profit organization.

The object of the Society is to promote the science of geophysics, especially as it applies to exploration, and to promote fellowship and cooperation among the persons interested in geophysical problems.

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#### 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

##### Revenue recognition

The Society follows the deferral method of accounting for contributions. Restricted contributions are recognized as revenue of the appropriate fund in the year in which the related expenses are incurred. Unrestricted contributions are recognized as revenue of the appropriate fund when received or receivable if the amount can be reasonably estimated and collection is reasonably assured.

Project revenues and expenses are recognized in the Project Fund during the period when the revenue is received and expenses are incurred.

Convention revenues and expenses are recognized in the Convention Fund during the period when the convention is held.

##### Capital assets

Capital assets are recorded in the Operating Fund at cost. Amortization is provided on straight-line basis over three to eight years, being the estimated useful life of the assets.

Leasehold improvements are amortized on a straight-line basis over the term of the lease, which is five years.

##### Contributed services

The operations of Society are dependant on the services of many volunteers. Although these volunteered services form an integral part of the ongoing operations, the value of contributed services has not been recognized in these financial statements.

##### Social committees

Various social committees within the society have monies available to them in order to administer the specific activities for which the committees were established.

The financial activities of these committees have not been reported upon in these financial statements..

##### Income taxes

The Society is a not-for-profit organization and is exempt from income taxes pursuant to Section 149 of the Income Tax Act.

(continues)

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## CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

### Notes to Financial Statements

Year Ended December 31, 2011

#### 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES *(continued)*

##### Measurement uncertainty

The preparation of financial statements in conformity with Canadian generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amount of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the period. Actual results could differ from these estimates.

#### 3. INTERNALLY RESTRICTED FUND BALANCES AND INTERFUND TRANSFERS

The Society's Executive Committee has internally restricted resources amounting to \$ 875,000 (2010 - \$ 875,000). These internally restricted amounts are not available for other purposes without approval of the Executive Committee.

The internally restricted funds have been allocated as follows:

	<u>2011</u>	<u>2010</u>
Operating fund - reserve	\$ 800,000	\$ 800,000
Convention fund	75,000	75,000
	<u>\$ 875,000</u>	<u>\$ 875,000</u>

#### 4. FURNITURE AND EQUIPMENT

	Cost	Accumulated amortization	<b>2011 Net book value</b>	2010 Net book value
Furniture and fixtures	\$ 17,226	\$ 1,722	\$ 15,504	\$ -
Leasehold improvements	12,104	1,210	10,894	12,345
	<u>\$ 29,330</u>	<u>\$ 2,932</u>	<u>\$ 26,398</u>	<u>\$ 12,345</u>

#### 5. FINANCIAL INSTRUMENTS

The Society's financial instruments that are included in the statement of financial position are comprised of cash and term deposits, accounts and advances receivable and accounts payable, all of which approximate fair value due to the immediate or short term maturity of these instruments. It is the opinion of management that the Society is not exposed to any material credit or interest rate risk on any of these financial instruments.



## CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

### Notes to Financial Statements

Year Ended December 31, 2011

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#### 6. COMMITMENTS

The Society is committed to a seven year lease commencing that expires September 30, 2018. Annual base rental commitments are \$ 26,768. Current monthly payments are \$ 4,739.

In addition, the society has committed to donate all of the current year's excess revenues over expenditures of \$ 247,744 to the Canadian Society of Geophysicists Foundation in the next fiscal year ended December 31, 2012.

Contractual obligation repayment schedule:

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## Past Presidents

1950 J.O. Galloway	1971 R.O. Lindseth	1992 R.J. Brown
1951 C.M. Moore, Jr.	1972 J.K. Morrison	1993 W.E. Davitt
1952 L.I. Brockway, N.J. Christie	1973 W.N. Rabey	1994 G.G. Taylor
1953 W.R. Ogilvie	1974 J.H. Harding	1995 B.T. Korchinski
1954 R.J. Copeland	1975 J.R. Pullen	1996 D. Hampson
1955 R.D. Holland	1976 W.D. Evans	1997 R. Stewart
1956 R.B. Ross	1977 R.J. McCaffrey	1998 N. Shaw
1957 G.J. Blundun	1978 E.F. Mahaffy	1999 D. Pruden
1958 F.A. Hale	1979 L.R. Hatlelid	2000 P. Kotkas
1959 H.J. Kidder	1980 P.D. O'Brien	2001 R. Pelletier
1960 M.B. Dobrin	1981 A.E. Wren	2002 D. Uffen
1961 P.I. Bediz	1982 D.A. Carswell	2003 W. Goodway
1962 P.J. Savage	1983 V.A.A. Neilson	2004 P. Cary
1963 R.H. Carlyle	1984 J.R. Hume	2005 J. Stenhouse
1964 C.J. Chapman	1985 L.C. Fichtner	2006 Oliver Kuhn
1965 R.A. Boulware	1986 J.D. Boyd	2007 Doug Bogstie
1966 J. Hodgkinson	1987 R.L. Comer	2008 François Aubin
1967 E.A. Fulmer	1988 R.M. Lundberg	2009 Jon Downton
1968 G.E. Longphee	1989 A.J. Ferworn	2010 John Townsley
1969 W. Blair	1990 N.E. Rutherford	2011 Larry Herd
1970 L.R. Baxendale	1991 B.H. Russell	

## Honourary Membership Awards

Honourary Membership is normally given only to a few members who have gained recognition for distinguished contributions in the field of geophysics or in service to the CSEG, either nationally or internationally.

- George D. Garland
- J. Tuzo Wilson
- Norman Christie
- Milton B. Dobrin
- A.E. Pallister
- Roy O. Lindseth
- David W. Strangway
- Peter J. Savage
- R.H. Carylyle
- Ernest R. Kanasewich
- Robert Boulware
- A. Easton Wren (1987)
- Sudhir Jain
- Charlotte Keen
- Peter Gretener
- Gordon West
- Ron Clowes (1995)
- Douglas W. Oldenberg (1996)
- Roy Hyndman (1996)
- Larry Lines (1998)
- Zoltan Hajnal (1999)
- Brian Russell (2000)
- Robert Comer (2002)
- Robert Stewart (2003)
- John Boyd (2003)
- Davey Einarsson (2004)
- Mike Galbraith (2005)
- John Bancroft (2005)
- Perry Kotkas (2006)
- Peter Cary (2008)
- Peter Duncan (2009)
- Gary Margrave (2011)

## Special Commendation

- Penny Colton (2011)
- Bill Goodway (2011)



## Meritorious Service Awards

The Meritorious Service Award is given to members of the CSEG who have made a prominent and/or lengthy contribution to the Society and/or the industry as a whole. Current practice is to make a maximum of two of these awards each year.

- Harry McGrew
- Cecil A. Collins
- Milton B. Dobrin
- Alexander H. McKee
- Peter J. Savage
- Percy Smith
- Roy O. Lindseth
- John Hodgkinson
- Jack W. Bowden
- Hal W. Godwin
- J. Kenneth Morrison
- Westley N. Rabey
- Easton Wren (1977)
- Mary C. Colberg
- A. Vern Street
- Alan J. Ferworn
- Jack R. Pullen
- Sudhir Jain
- Bill Blair
- Harold Acheson
- Bud St. Clair
- William D. Evans
- Earle F. Mahaffy
- Jack E. Setters
- Peter Bediz (1983)
- William C. Stroup
- Ernie K. Shaw (1984)
- William Davitt (1984)
- Ray Prudholme
- George Blundun
- Valerie A.A. Neilson
- Duncan A. Carswell
- P. Dennis O'Brien
- Judi McDonald (1987)
- Dale Kary
- D.K. Bruce Fenwick
- Lloyd Hatlelid
- Larry Fichtner
- Don Simpson
- John Boyd (1988)
- Arthur Baptie
- Bob Comer
- Dan Hampson (1991)
- Nancy Shaw
- Ralph Lundberg (1992)
- Murray Olson
- George Kostashuk
- Robert Grigg
- Neil Rutherford
- Ken Duckworth (1994)
- Melvin E. Best (1995)
- Brian Russell (1995)
- Don C. Lawton (1996)
- James Brown (1997)
- John Pierce
- Gregg Milne
- Ernest Kanasewich
- Michael Enachescu (1998)
- Elaine Honsberger (1999)
- Dave Siegfried (1999)
- Doug Uffen (1999)
- Penny Colton (2000)
- Norm Cooper (2000)
- Barry Korchinski
- George Fairs (2001)
- Perry Kotkas (2002)
- Oliver Kuhn (2003)
- Satinder Chopra (2005)
- Bill Nickerson (2005)
- Helen Isaac (2007)
- Mauricio Sacchi (2007)
- Doug Schmitt (2008)
- Larry Mewhort (2008)
- Tooney Fink (2009)
- John Logel (2009)
- J.M. Annette Milbradt (2010)
- Laurie Ross (2010)
- Doug Bogstie (2011)

## CSEG Medal

The CSEG Medal was introduced in 1988 and is the highest award that the Society bestows. "The CSEG Medal is given in recognition of the contribution to Exploration Geophysics by a member of the profession in Canada. It can be gained through a long-standing significant contribution to the application, teaching or business development of Exploration Geophysics. It can also be gained through a single achievement in any of these areas, which has been recognized over a period of years as a significant development. The award will be made to a member of the geophysical profession who is recognized for his integrity as well as his accomplishments."

- Ted Rozsa
- Roy Lindseth
- Greg Davidson (1990)
- Dave Robson (1991)
- Robert R. Stewart (1992)
- Hugh Stanfield
- Donald Chamberlain
- John Boyd (1994)
- Garry Kelman
- Brian Russell (1999)
- Don Lawton (2000)
- Dan Hampson (2004)
- Bill Goodway (2007)
- George Betram (2008)
- Warner Loven (2009)

## Technical Achievement

- Daniel Trad (2011)



# Corporate Members

Absolute Imaging Inc.  
Aguila Exploration Consultants Ltd.  
APL Oil & Gas Ltd.  
Apoterra Seismic Processing Ltd.  
ARAM Systems Ltd.  
ARC Resources Ltd.  
Arcis Corporation  
Bertram Drilling Corp.  
Boyd PetroSearch  
Caltex Energy Inc.  
Canadian Natural Resources Ltd.  
CGGVeritas  
ConocoPhillips Canada Resources Ltd.  
Crescent Geo LLC  
Devon Canada Corporation  
Divestco Inc.  
Edge Technologies Inc.  
Ember Resources  
EnCana Corporation  
Explosives Partnership  
Fugro Data Solutions Canada Inc.  
GEDCO  
Geo Search Data  
GX Technology Canada Ltd.  
Halliburton-Landmark  
Hampson Russell Limited Partnership  
Husky Energy Inc.  
Imperial Oil Resources  
ION Geophysical  
Kelman Technologies Ltd.  
Lornel Consultants  
Matrix Geoservices Ltd.  
MAXAM Seismic Explosives Inc.  
Murphy Oil Company Ltd.  
Newfoundland and Labrador Government,  
Department of Natural Resources  
Nexen Canada  
NuVista Energy  
Olympic Seismic Ltd.  
Outsource Seismic Consultants Inc.  
OYO Geo Space Canada Inc.  
Paramount Energy Trust  
PennWest Energy  
PlusPetrol  
Rocking Horse Energy Services Inc.  
RPS Energy  
SAIT  
Seismic Micro-Technology (SMT)  
Sensor Geophysical Ltd.  
Shell Canada Limited  
Sigma Explorations Inc.  
Suncor Energy  
Synterra Technologies Ltd.  
Talisman Energy Inc.  
TerraWrX  
Tourmaline Oil Corp.  
Western Geco