

2012 CSEG ANNUAL REPORT



CSEG 2012–2013 Council Top Row (L-R): Jason Noble, Meghan Brown, Larry Wellspring, Glenn Malcolm, Larry Herd, Rob Kendall, Hugh Geiger, Tammy Wilmer, Patrick Tutty; Front Row (L-R): Sheryl Meggeson, Kurt Wikel, Rob Vestrum, Ron Larson, Kim Nevada, Jason Schweigert, Wade Brillon, Jim Racette; Not in Photo: Shawn Maxwell

2012 Executive

Rob Kendall, *President*
Ron Larson, *Vice President*
Hugh Geiger, *Director Educational Services*
Shawn Maxwell, *Assistant Director Educational Services*
Patrick Tutty, *Director Member Services*
Kim Nevada, *Assistant Director Member Services*
Glenn Malcolm, *Director Finance*
Wade Brillon, *Assistant Director Finance*
Jason Noble, *Director Communications*
Jason Schweigert, *Assistant Director Communications*
Larry Herd, *Past President*
Jim Racette, *Managing Director*



CSEG

Canadian Society of
Exploration Geophysicists

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President

The Canadian Society of Exploration Geophysicists remains healthy, vibrant and prosperous. Our social events are considered the best in the industry; The T-Wave Golf Tournament, WISE Golf Tournament, Doodlebug, Doodlespiel, CSPG/CSEG Road Race and Fun Run and the Ski Spree. They all operate on their own budgets with minimal help from the CSEG. They also all operate through the generous contributions of our volunteers. In fact, it's the CSEG volunteers that keep our entire society running as smoothly as it does.

Speaking of volunteers, our new executive has been announced and they will begin attending the Executive Meetings on March 19, 2013 as voting members.

The 2013 CSEG Executive Committee is comprised of the following individuals:

President – *Ron Larson*

Vice President – *Rob Vestrum*

Director of Educational Services –
Shawn Maxwell

Assistant Director of Educational Services – *Kurt Wikel*

Director of Member Services –
Kim Nevada

Assistant Director of Member Services –
Tammy Wilmer

Director of Finance – *Wade Brillon*

Assistant Director of Finance –
Larry Wellspring

Director of Communications –
Jason Schweigert

Assistant Director of Communications –
Meghan Brown

Past President – *Rob Kendall*

Speaking from personal experience, it is a pretty big commitment being on the CSEG executive and I would like to thank everyone for stepping up to the plate and representing our society!

At the AGM on March 19, I will be reviewing the year's accomplishments and I will also be including the highlights in the President's Executive Report. These accomplishments were a group effort and I believe the 2012 Executive was a smoothly running machine with great energy and a positive attitude.

The following is a listing and brief discussion of the highlights. I have also included the CSEG Mandate just to put things in perspective.

CSEG Mandate – The mandate of the Canadian Society of Exploration Geophysicists is to promote the science of geophysics, especially as it applies to exploration, and to promote fellowship and cooperation among those persons interested in geophysical prospecting.

Membership – The current membership sits at 2354 compared to 2104 last year. While we have seen increases in all areas of the membership, the biggest increase came in the student membership. This is most likely due to student membership sponsorship (presently covered by RPS Boyd).

Social Committees – This year we instigated new requirements for CSEG sponsored social committee events. That is, that to participate in a CSEG event, one should be a CSEG member (it's \$52.00). This requirement is not applied to spouses and some other special cases. We also saw the Women in Seismic Exploration (WISE) golf tournament become a CSEG sponsored event. We initiated the meritorious service awards that are given out at the CSEG Symposium and we established a yearly meeting for all the committee members to get together and compare notes on efficiencies and fund raising.

State of the Society (all \$, 000)

	2007	2008	2009	2010	2011	2012 est
Convention Profit	\$406	\$384	\$288	\$233	\$404	\$460
DoodleTrain Profit	\$148	\$18	\$34	\$45	\$97	\$120
Recorder Profit	\$32	\$32	-\$17	\$14	\$29	\$24
Contribution to Foundation	\$200	\$200	\$0	\$0	\$250	\$250
Reserve Fund	\$375	\$800	\$800	\$800	\$875	\$875
Total Equity	\$1,712	\$1,742	\$1,639	\$1,584	\$1,950	\$2,000
Membership	2206	2164	2135	1993	2104	2354

GeoConvention 2012: Vision – 2012 marked the first year that the CSEG operated the GeoConvention (CSEG, CSPG and CWLS) under the JACC agreement. The 2012 convention was an overwhelming success with a net profit going to the CSEG of \$460,000 (compared to \$406,000 the previous year). There were 247 oral presentations, 111 posters, 19 core displays and 4157 registered delegates. The CSEG is again operating in 2013 and all the early indicators suggest that this will be an even more successful event.

Memorandum of Understanding (MOU) with the EAGE and SEG – Members of the Executive met with their counterparts at the SEG Convention in Las Vegas. The purpose of these MOU's is to put some structure around the existing society relationships. In particular, we will promote our respective societies at each

other's conventions, in our respectful journals and on our web-pages. While we presently host the DISC and EET programs, our Foundation Distinguished Lecturers (DLs) have not been promoted in Europe and in the US. We expect to have the MOUs signed at the CSEG Symposium, March 7.

CSEG Symposium – After a successful inaugural symposium, we will be moving ahead with the second annual CSEG Symposium on March 7, 2013. A full slate of invited speakers has been confirmed. This year's topic will be celebrating the accomplishments of Bill Goodway.

CSEG Foundation – The CSEG Foundation achieved the \$1 million mark and the beginning of 2012 partially thanks to the Society being able to donate almost \$250,000 two years in a row. Through a

new fundraising effort, the Foundation is now moving towards their goal of \$3 million. At last count they were approximately \$600,000 closer to that. This includes private donations and another society donation that should easily be \$300,000 this year. The next phase will be targeting corporate entities. The Foundation sponsors student scholarships, the Distinguished Lecturer tour, outreach, travel grants and learning subsidies.

CSEG Rebranding – The CSEG has completed a major new rebranding for the Society and the Social Committees. The new brand will be rolled out at the AGM while the social committees could take a bit longer.

*Rob Kendall
President*

Director of Educational Services

It has been a pleasure to serve as the CSEG Director of Educational Services for 2012–2013. In March, I will be handing over my duties to Shawn Maxwell, who will also continue to serve as a coordinator of the Microseismic User Group. Shawn brings a wealth of experience and knowledge to the role and will be ably assisted by Kurt Wikel as the new Assistant Director.

The CSEG has continued to expand the educational opportunities offered to members. In only its second year, the 2013 CSEG Symposium and the Awards Luncheon is now established as one of the CSEG flagship events. The 2012 DoodleTrain was one of the most successful ever. We continue to offer the SEG Distinguished Instructor Short Course and have now partnered with the EAGE to offer the EAGE Education Tour courses. Both the Lunchbox Geophysics and the Microseismic User Group continue to offer high quality talks that often fill their venues to capacity. As for the monthly Technical Luncheons – we endeavoured to cover a wide range of topics from microseismicity to global geophys-

ics, bringing in internationally renowned geophysicists including a number from our own backyard!

This could not have happened without a dedicated group of volunteers, a membership that is eager to participate, and sponsors willing to help defray some of the costs of these events. Perhaps just as important are the companies that encourage employees to volunteer and attend educational events as part of their professional training. Canadian geophysicists are world class and we all benefit by increasing our knowledge and understanding.

Over the past year, we endeavoured to capture the organizational duties of these committees in the form of a “Structure and Guidelines” document, prompted by the fine example prepared by the Symposium Committee under Satinder Chopra (2012) and Oliver Kuhn (2013). Key aspects include objectives, roles, timelines and succession planning. This will no doubt improve the professionalism of our committees, but also allow volunteers to better manage their time with

a finite commitment in mind, and offer volunteers more opportunities to move to different committees if they so desire.

In past annual reports, the Director of Educational Services has provided a summary of all the Committees under report. As part of the “Structure and Guidelines” document, we have requested that one of the roles of the committees is to prepare a short summary for the annual report. Thanks to all the committee chairs for their timely submissions. The CSEG is indeed fortunate to have very capable and dedicated volunteers as committee chairs and members. On behalf of the members, I would like to thank all of you for your efforts.

Last, but not least, I would like to thank Sheryl Meggeson and Jim Racette for their infinite patience and wisdom, and for their guidance and assistance in all things concerning the CSEG. It has been a pleasure working with you.

*Hugh Geiger
Director Educational Service*

Technical Luncheon Committee

Committee:

Mo Al-Ibrahim (chair)

David Emery

Larry Mewhort

Marc Boulet

John Rennie

Deepreet Mand

Shawn Maxwell

Hugh Geiger

Kurt Wikel

Although Mo Al-Ibrahim continues to serve as one of the CSEG photographers (along with Penny Colton), Mo took over the role of preparing the luncheon cycling and announcement slides from David Emery in 2012, and now chairs the Technical Luncheon Committee. It was decided that the Director of Educational Services should continue to have a key role in selecting and coordinating the

luncheon speakers during the duration of their term, with an oversight role on the luncheon committee. However, the main effort in speaker selection is completed a number of months in advance of the AGM and the end of term as Director. On the other hand, the main effort for each luncheon preparation is the agenda and slides – tasks that are closely linked and often require numerous emails to coordinate. We hope this new organizational structure simplifies luncheon preparation.

Determining a best luncheon speaker for 2012 has been quite challenging this year – not just because there were so many fine talks (the 2012 winner will be announced shortly), but also because we received very few evaluation forms. To increase the number of responses, the executive has approved a \$500 Westjet gift certificate, to be awarded by a draw of submitted evaluation forms. The forms will be designed with a tear-off strip at the bottom for your name and contact

information – hence your evaluation form will remain anonymous if you so desire. If you evaluate 5 talks, you get 5 entries and increase your chances of winning. The draw will be conducted in January 2014.

2012 Technical Luncheons

Many thanks to our Student Luncheon Ticket Sponsors, whose names we post during every luncheon.

January, Lee Hunt, “*Quantitative Interpretation, New Challenges, and Economic Value*”, sponsored by Oil Sands Imaging (now Canadian Discovery)

February, Mike Kendall, “*Rifting in Africa: Seismological Views from Afar*”, sponsored by Divestco

March, Barbara Cox, “*Distributed Acoustic Sensing for Geophysical Measurement, Monitoring & Verification*”, sponsored by APEGA

April, Shawn Maxwell, “*Microseismic Imaging of Hydraulic Fractures: Snap, Crackle and Pops of Shale Reservoirs*”, sponsored by Enerplus

June, Samuel Gray (SEG Distinguished Lecturer), “*A Brief History of Depth... and Time Seismic Imaging*”, sponsored by Paradigm

September, Kurt Wikel (2012 GeoConvention Best Oral Paper in Geophysics), “*4D study of secondary recovery utilizing THAI® from a Saskatchewan heavy oil reservoir*”, sponsored by APEGA

October, Dave Hale, “*3D Seismic Image Processing for Faults and Horizons*”, sponsored by Enerplus

November, Fred J. Hilterman, “*Merging of Reflections and Refractions*”, sponsored by Arcis

December, Zhengzheng (Joe) Zhou, “*A Broadband Processing Technology Applicable to Conventional Streamer Data*”, sponsored by Ion GX Technology

DISC

Committee:

Hugh Geiger (chair)

Jim Racette

Sheryl Meggeson

The 2012 SEG Distinguished Instructor Short Course “*Elements of Seismic Dispersion: A somewhat practical guide to frequency-dependent phenomena*” was presented by Christopher L. Liner from the University of Houston on April 12 at the Telus Convention Centre. Thanks to Sheryl Meggeson and Jim Racette all their great work over the past years bringing the DISC to Calgary.

EAGE EET5 and EET6 Courses

Committee:

Mahdi Almutlaq (Co-Chair)

Hugh Geiger (Co-Chair)

Lindsay Miller

Shahin Jabbari

Melissa Hernandez

Glen Young

Naimeh Riaz

Heather Lloyd

As a new offering beginning in 2012, the CSEG has partnered with the EAGE and the University of Calgary to bring the EAGE Education Tour (EET) courses to Calgary.

The first course offered in Calgary was the EET5 course “*Seismic Geomechanics: How to build and calibrate geomechanical models using 3D and 4D seismic data*”, presented on October 12, 2012 by Jorg Herwanger from WesternGeco, Gatwick, UK.

The second course offered was the EET6 course “*Seismic surveillance for reservoir delivery*”, presented on March 18, 2013 by Olave Inge Barkved, BP, Stavanger, Norway. Olav then travelled to Edmonton to present his course at the University of Alberta.

Calgary will continue to be a key stop for EET courses in the Americas. The EAGE covers the travel costs for the course instructor. In the future, we are hoping to find sponsors interested in helping to defray the cost of a side-trips to Canadian universities, as these fall out of the mandate of the EAGE in offering the EET courses.

GeoConvention 2012: Vision – Geophysical and Integrated Award Winners

Many thanks to all the evaluators and volunteers!

Best Geophysical Oral Presentation

4D Study of Secondary Recovery Utilizing THAI® from a Saskatchewan Heavy Oil Reservoir

Kurt Wikel and Rob Kendall

Honourable Mention Geophysical Oral Presentation

Oops: An Introduction to Seismic Wavefield Visualization

Steven Lynch

Best Geophysical Poster Presentation

Determination of Elastic Constants using Extended Elastic Impedance

Ritesh Sharma and Satinder Chopra

Honourable Mention Geophysical Poster Presentation

Microseismic Monitoring of Ball Drops During a Sliding Sleeve Frac

Shawn Maxwell, Zuolin Chen, Irina Nizkous, Richard Parker, Yuri Rodionov and Mike Jones

Best Student Geophysical Oral Presentation

Orientation Analysis of Borehole Geophones in Vertical and Deviated Wells: Calibration Consistency

Peter Gagliardi and Don C. Lawton

Cont'd on page 8

Director of Educational Services cont'd

Honourable Mention Student Geophysical Oral Presentation

Only dither: Efficient Simultaneous Marine Acquisition

Haneet Wason and Felix J. Herrmann

Best Student Geophysical Poster Presentation

Monitoring Active Steam Injection through Time-Lapse Seismic Refraction Surveys

Byron Kelly and Don C. Lawton

Honourable Mention Student Geophysical Poster Presentation

On the Road to 3D Seismic Imaging of Massive Sulphide Deposits in a Sediment-Hosted Permafrost Environment

Laura Quigley, Yijian Meng, Bernd Milkereit and Emmanuel Bongajum

Best Integrated Oral Presentation

Case Studies Highlighting Tight Sand Reservoir Characterization from the Interpretation of AVO – Inversion Techniques

Lynn Engel and Carmen C. Dumitrescu

Honourable Mention Integrated Oral Presentation

An Integrated Sedimentology, Geochemistry and Well Log Approach to Sequence Stratigraphy in Shale Formations

Nicholas Harris

Best Student Integrated Poster Presentation

Multi-Surface Visualization of Fused Hydrocarbon Microseep and Reservoir Data

Chris Burns, Teddy Seyed, Ken Bradley, Russ Duncan, Aaron Balasch, Frank Maurer, and Mario Costa Sousa

Honourable Mention Student Integrated Poster Presentation

A New Correlation of Compressional and Shear Slowness for the Tight Gas Nikanassin Group in the Western Canada Sedimentary Basin based on Geostatistical Analysis

Liliana Zambrano, Fernando Castillo, Laureano Gonzalez and Roberto Aguilera

MicroSeismic User Group

Committee:

Shawn Maxwell

Paige Snelling

David Close

The Microseismic User Group is a forum for practitioners to share experiences associated with microseismic imaging of hydraulic fracture stimulations. Topics will include survey design, acquisition, and processing although the primary focus will be on practical application and interpretation of microseismic data. Interpretation of hydraulic fracturing spans

the geophysics, engineering and geology communities and hence the group will encourage multidisciplinary discussions.

The 2012 MUG lunch talks were very well attended. Thanks to Schlumberger for providing a venue.

February, Bill Goodway, “Microseismic: Monitoring Induced Seismicity”

March, Denis Dufresne, “Where’s my dot? EOG’s microseismic experience in Canada”

September, Dan Walker (BC Oil and Gas Commission), “Frac Induced Seismicity in the Horn River Basin”

October, Neil Taylor, Paige Snelling, Mark Stacey, and Dave Abbott (Encana), “Horn River Microseismic Acquisition: Designing a Shallow Array”

December, Tom Davis and Chris Steinhoff (Colorado School of Mines), “Integrated microseismic and surface multicomponent seismic monitoring of hydraulic fracture stimulations, Pouce Coupe Field, Alberta”

Director of Member Services

On behalf of Kim Nevada and myself I would like to thank all the CSEG members and volunteers who make the CSEG the growing, relevant society it is today. As Director of Member Services I would also like to specifically acknowledge the volunteers who ensure the continued success of our excellent social events.

The Doodlespiel, the Family Ski Spree, the Doodlebug, the T-Wave, the Road Race and the Junior Geophysicists Forum are six excellent events well worth attending. The Doodlespiel has made its return to Banff and a newly renovated and rebuilt curling rink, welcoming a record number of participants this year to a highly competitive bonspiel. The Family Ski Spree is held at the Fairmont Hot Springs Resort at the end of February each year. This is a wonderful event, focused on families and making sure that everyone's kids are spoiled rotten! The Doodlebug will be returning

to Trickle Creek in Kimberley BC for the fourth straight year to celebrate the 61st anniversary of one of the best golf tournaments in the Oil and Gas industry. This event has evolved over the past few years to maintain the established traditions while acknowledging the changing times; it has become more affordable and accessible for younger CSEG members while maintaining the high-class feel that has made it a success for 60 years. The T-Wave golf tournament was a huge success as well this year, and a great partner for the Doodlebug. The T-Wave is a one day event in June, hosted at the Inglewood Golf Course here in Calgary. This is a very well-run and highly enjoyable golf tournament which caters to golfers of every level. In September we had the Road Race, featuring both 5km and 10km runs. This event continues to show that we have some tremendously fit CSEG members who compete in this well organized and very fun afternoon. The

Junior Geophysicists forum continues to bring young Geophysicists together with some of our society's best and brightest mentors. This has been a great event for getting our newest members involved and interested in what the CSEG has to offer.

At September Technical Luncheon we introduced our CSEG Service Awards to honor our long-term CSEG members. We showed our appreciation to those individuals who have been members of the Society for 10, 20, 30, 40, 50 and 60 years, and we specifically thanked the 40, 50 and 60 year members in person during the luncheon for their continued support. The 10-30 year members have received a token of our appreciation as well. We felt it was a long-overdue thank you to our members for their dedication to the society.

Patrick Tutty
Director Member Services

CSEG Financial AGM

The CSEG has had a very successful year in many aspects with the financial results being one of them. The financial side of the CSEG has been well looked after by previous Directors of Finance so I took over a well-run operation and built upon it. Last year was an excellent year as well resulting in a surplus of funds that was given to the CSEG Foundation in January of this year. This year we ended up in the red due to another large donation being made to the CSEG Foundation prior to the end of the year. If you take both years together we have broken even as a non-profit organization should. The timing of the donation for 2011 was in January of 2012 which impacts the 2012 results. This is evident on the financial statements as the surplus for 2011 approximately equals the short fall in 2012 around \$250,000. Due to having to make a decision on the amount at our December Executive meeting prior to year end the amount will not match exactly. Our financial reserves

have been preserved with the society having ample reserves to carry the society through years when the industry is struggling.

The CSEG runs most of its programs on a breakeven basis although this can swing from a small loss to a small profit depending on how the attendance compares to our forecast. This year saw the launch of a new event, the CSEG Symposium that was budgeted for a breakeven scenario although with the excellent turnout it generated a small profit. This was due in large part to the great leadership of the event. We have some activities for which there is no income like our CSEG office space. Our main revenue generators, in addition to our membership fees, are the annual joint convention (CSEG, CSPG & CWLS) and the DoodleTrain week in November. Both events are run mostly by volunteers. The convention has two paid staff to run the day to day

tasks although it is the many volunteers who plan, organize and staff most of the convention activities that lead to its success. The DoodleTrain is also staffed by many volunteers and aided by corporate donations such as classroom space. The course offerings and attendance were up this year.

My two year term with the first year as Assistant Director of Finance and then this year as Director of Finance for the CSEG is up after the Annual Meeting. I have enjoyed the opportunity to serve the society and you over these two years. I leave you in capable hands as our current Assistant Director of Finance, Wade Brillon, will take over my role after the Annual Meeting in March.

*Glenn Malcolm
Director of Finance*

Director of Communications

When I was first approached to run for Director of Communications several years ago, I felt it would be an excellent chance to serve the CSEG in a portfolio that had seemed historically to have been fairly low maintenance. The primary duties seemed to be: making sure the RECORDER got out, a task which the very capable RECORDER committee accomplished regardless of the obstacles they faced month to month, and make sure information got onto the website, again between the office and our exceptional website developer something that really didn't seem to need much work. It appeared that my role would largely be "stay out of the way and make sure people have what they need to get things done". In hindsight, maybe I should have asked more questions. The winds of change appear to have been stirring up before I arrived on the scene, and my portfolio was suddenly charged with taking the CSEG into a whole new look.

2012 has been a very interesting year for the Communications portfolio. The RECORDER, under editor John Fernando (with support and guidance from Satinder Chopra), has done an incredible job of maintaining the exceptional quality it has come to be known for, and has finally been able to meet deadlines and come out if not on time, very close to it. The efforts of the RECORDER committee in accomplishing this bear recognition and thanks, as I know all too well how difficult it is to get this done. My sincerest thanks go out to John, Satinder and the rest of the RECORDER committee for all of their hard work and commitment.

The rebirth of the Journal has been another great achievement for Larry Lines and Satinder Chopra. It is no simple feat to compile and publish a complete journal of peer reviewed papers in what is often regarded as very much an industry society. I, and the CSEG, owe both Larry and Satinder, as well as the army of peer reviewers they have compiled, a thank you for all of their efforts and time devoted to bringing back a publication many of us had all but forgotten.

The website committee, reformed by my predecessor Cheran Mangat, wound up with maybe the most difficult task of the bunch. The rebranding process, which if you haven't heard about it yet you soon will, was dropped squarely in their laps. I'm still not entirely sure how the process started, but Cheran embraced and championed it, and again her efforts towards it served to make my job that much easier. Will McCarthy chaired the website committee this past year, and did an exceptional job of keeping the committee and the rest of us organized and informed, not only of the progress, but the process as well. I think we will all appreciate their efforts for years to come, as not only the website has a new look and is easier to navigate, but the entire CSEG gets a fresh new look to boot.

It seems one contribution in the Communications portfolio that often gets overlooked, is the incredible job our web developer Jeremy Sherry does: while various committees and executive members are the intermediaries, ultimately Jeremy gets the job done. His support has been

fundamental to not only the website, but the rebranding process and the day to day ability of the CSEG to communicate with its membership. I want to thank you Jeremy for all of your time and input.

The future will bring some more change as the RECORDER is prepped to become an online publication, and the website will continue to develop as a portal to the goings on of the CSEG. I think I leave this in very capable hands with incoming Director of Communications Jason Schweigert, and Assistant Director of Communications Meghan Brown.

In closing, I would like to thank Cheran Mangat for making sure things were in place to make my job easier, and I hope I have done the same for my replacement. As well, I would like to thank all of the volunteers for all that they do for the society. It is encouraging to see the recurring theme of volunteers willing to give their time for the betterment of their fellow CSEG members and ask very little if anything in return. I am glad to have had the opportunity to serve the CSEG in what my contribution has been.

Before I forget, when I first came into this position I read somewhere that one of the responsibilities of the Director of Communications was "keeper of the seal of the CSEG". I have been asking around for the last couple years and no one seems to know much about it. If you do happen to have it, drop Jason Schweigert a line...

*Jason Noble
Director of Communications*

Managing Director's Report

This past year was one of tremendous growth, since the economic disaster of 2008. The following are some highlights for 2012:

- The GeoConvention was deemed a huge success, both technically and financially for our membership
- The DoodleTrain's overall attendance was up by about 25% over 2011 numbers. There were 20 courses provided and it still is considered a significant revenue stream for the CSEG.
- The RECORDER advertising was very similar to 2011. There was no drop in advertising.
- Memberships rose about 7% over 2011.
- The technical luncheons saw an average of just under 400 tickets per event sold. The Corporate Sponsor program continues to be a huge success as all 9 events were sponsored at \$1500.00 per luncheon. This helped the luncheons stay ahead of ever rising costs.

Looking ahead to 2013

- The second annual CSEG Symposium will be held in March. The first event saw close to 300 people attend.
- The CSEG took over operatorship of the GeoConvention, for 2012 and will be doing it again for 2013.
- The CSEG Foundation kicked off its fundraising campaign in December and nearly 400K has been committed to date. The drive will continue in 2013.
- GeoConvention appears to be on target to at least match its 2012 numbers both delegate wise and financially.
- CSEG should match if not exceed its 2012 membership renewals and remain constant with its corporate member program.
- Memorandums of Understanding with the EAGE and SEG will be signed this year to clear the way to offer more courses, workshops, etc. between the CSEG and these associations.

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. 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

2012 GeoConvention – Vision

The three societies, CSEG, CSPG and CWLS again came together to produce an excellent convention with GeoConvention 2012: Vision, and this year was another great success, with over 4,000 delegates enjoying some or all of the 5 day event.

Technical Program

With almost 250 oral presentations, over 100 posters, and 19 core displays at the ERCB Core Research Centre, the 2012 technical program had something to interest all delegates. Highlights included the honorary sessions for Drs. Eric Mountjoy and Cindy Riediger, as well as the CSEG special session on Thursday, which featured invited speakers from around the world addressing issues of interest to today's geoscientist. Audio visual issues have, for the most part, been eradicated, and as the venue becomes more familiar the remaining kinks regarding room and poster layout should be resolved.

Special Events

Dr. Michael Byers addressed delegates during Monday's luncheon with a keynote talk on sovereignty issues in the Arctic, which led to an interesting Q&A period, and LGen Romeo Dallaire addressed a capacity crowd on Tuesday with a thought-provoking and inspiring talk that prompted delegates to give a standing ovation, and which was the topic of discussion for the rest of the week among many in attendance. These events highlighted the fact that choosing engaging speakers is a keystone of the special events program, as it can affect the whole tone of the convention. The Core Meltdown was moved to the U of C campus in 2012, and was a hit with delegates. All agreed that having the larger function space for this event was a step in the right direction, and this will likely become the new venue for this event.

Registration

Registration was another key success of Vision 2012: as mentioned already over 4,000 delegates took part in this year's event, but this included over 3,000 paying delegates, as well as over 400 delegates who took advantage of the advance sale of complimentary exhibit floor passes. Student registration alone jumped over 80% over 2011 to a total of 373 delegates, with a further 78 student presenters in attendance. Returning events like the Challenge Bowl, as well as the new Student Travel Assistance Program and Industry/Student Luncheon will ensure this is a continuing trend.

Exhibits

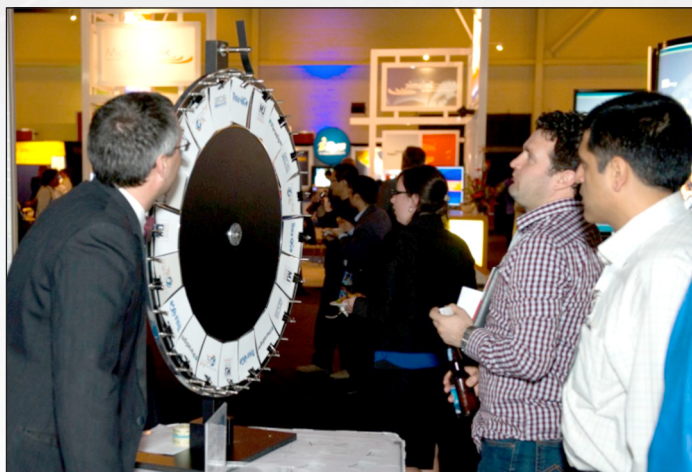
The exhibit floor was sold out this year, with a waiting list of companies eager to attend in the future. Foot traffic was increased by bringing bars and food stations into greater prominence on the floor, and creating more of an event out of the evening receptions which took place Monday and Tuesday night. Exhibit Hours were extended in 2012 as the floor was once again open all day Monday – moving forward this seems like a popular change with exhibitors, and if hours were to be shortened at all it might be to an earlier close on Wednesday afternoon.

Sponsorship

Along with Exhibits, the Sponsorship Committee also exceeded budgeted revenues. In 2012 this committee worked to develop new opportunities to better fit the needs of industry partners, and expanded the advertising opportunities available. Some key successes:



A technical session in progress at the 2012 GeoConvention



On the exhibits floor

2012 GeoConvention – Vision

- Brought in a new technical session sponsor: Statoil; and new sponsorship by a legal/financial firm obtaining \$38,100.00 in new sponsorship dollars (returning sponsors contributed \$437,000.00). These amounts also account for sponsorship of Earth Science for Society.
- Had all social events sponsored for the first time in years!
- Good energy at the Icebreaker and at the Tuesday night event!
- New sponsorship initiative for university student assistance across Canada to defray their travel, lodging and meal costs. 18 students were funded.

Earth Science for Society (ESfS)

This program was extremely successful and well received. Dates, times, logistics have been fine-tuned over the past two years so that volunteers, exhibitors, and schools all said this was the best ESfS yet. ESfS boasted a strong line-up of exhibitors this year – very interactive and hands-on. Attendance is estimated as follows: Sunday: 400 general public Monday & Tuesday: 1300+ school attendees Monday & Tuesday: 200 convention delegates, homeschoolers, and general public 20 exhibits – at capacity 12 schools – at capacity by end of January 75 volunteers filled 155 shifts.

Volunteers

All requested convention week volunteer positions were filled by the 104 volunteers who provided their time, more than 1000 hours total, to the success of the convention. Our thanks to these people as well as the committee volunteers, from all three societies, that give their time year-round to ensure the success of this event. The convention would not be a success without their hard work and dedication.

This abridged report has been extracted from the comprehensive final report that was prepared for 2012 GeoConvention – VISION.

*Satinder Chopra
CSEG General Co-Chair*



Luncheon for the Industry–student mixer



Core meltdown in progress

(Photos credit: Bill Marsh Photography)

RECORDER

The six RECORDER issues of 2012 followed the format set by the issues of the previous years with a theme for each issue and had a total of thirteen focus articles and three articles all of which were technical articles.

The themes covered in the first six issues were:

- Future Geophysics in the Canadian Oil Patch (January)
- Reservoir Geomodeling (February)
- Inversion and Optimization (March)
- Geostatistical Inversion (April)
- Time Lapse / Multicomponent (May)
- Advances in Processing Techniques (June)

However, Satinder suggested at a RECORDER meeting that the committee introduce the idea of having a special coordinator for each of the themes and entrust the task of soliciting articles as well as writing an introduction to the focus articles. This new approach worked very well.

The themes covered in the last four issues of 2012 were:

- Seismic Acquisition (September); Special coordinator: Malcolm Lansley – (Sercel)
- Microseismic – Application and case studies (October); Special coordinator: Shawn Maxwell (Schlumberger)
- Processing – Noise attenuation/ Multiples (November); Special coordinator: Mauricio Sacchi (University of Alberta)
- Processing – Migration/ Imaging (December); Special coordinator: Peter Cary (ARCIS)

I wish to thank Malcolm Lansley, Shawn Maxwell, Mauricio Sacchi, and Peter Cary for their efforts in soliciting excellent technical articles as well as reviewing them. This new approach will be continued with the intention of bring more technically superior focus articles in each of the RECORDER articles.

Following individuals were interviewed for the RECORDER in 2012: Jim Gaiser, Mostafa Naghizadeh, Robert Vestrum, Andy Williamson, Ken Mitchell, David Birnie, Tooney Fink, Graziella Kirtland Grech, Doug Campbell and Daniel Trad. I wish to thank Satinder Chopra for his continued efforts in delivering interview with a wide variety of representatives of the Oil and Gas industry and Oliver Khun for his editing efforts with regards to the interviews.



Jim Gaiser



Mostafa Naghizadeh



Robert Vestrum



Andy Williamson



Ken Mitchell



David Birnie



Tooney Fink



Graziella Kirtland Grech



Doug Campbell



Daniel Trad

Even though the focus articles and the interviews are the main articles of interest to the majority of the readers the monthly contributions of the articles provided by the CSEG president, members of the Executive committee, Mike Doyle (CAGC) – CAGC column, Helen Isaac (Univ. of Calgary) – Outreach, Oliver Khun (Apoterra Seismic Processing Ltd.) – Science Break, Carmen Swalwell (Swalwell Resource Consulting) – Tracing the Industry, Roger Smith (Univ. of Calgary) – Through the Eyes of a Student, and Kristy Manchul (Edge Technologies Inc.) - Grapevine are equally important in keeping the CSEG members and other readers alike in the important aspects of our society.



RECORDER con't

The task of delivering a RECORDER issue each month is facilitated by a dedicated group of individuals and they are David Cho (Associate Editor), Carson Yarham (Assistant Editor), Mohammed Al-Ibrahim (Assistant Editor), Meghan Brown (Assistant Editor). Penny Colton as usual is always ready to lend a hand with any requests for proof reading articles and RECORDER drafts. Thank you Penny!

Special thanks to Jim Racette for his continued work in keeping up the advertising efforts without which the RECORDER would not be self-sustaining financially. It was indeed good to hear that the RECORDER revenues exceeded expenses due to increased advertising. Also a special thanks to Sheryl Meggeson for her efforts on behalf of the RECORDER.

Jeremy Sherry – CSEG web designer and up keeper has embarked on the task of tagging each focus article with a updated list of SEG tag keywords and so far he has received tag keywords for 2012 and 2011 focus articles. The plan is to produce tag keywords for all the focus articles of all the issues of the past years up to 1985. Thanks to David Cho, Mostafa Naghizadeh, Meghan Brown and Mohammed Al-Ibrahim for their assistance in providing search keywords for the 2012 RECORDER focus articles.

Last but not most importantly Bonnie and Lawrence Luft, of the The PRINTMAN who do their utmost to keep the RECORDER being delivered on time with a high quality of reproduction.

I set a goal of delivering the RECORDER at the beginning of each month at the start of September 2012 and I wish to thank all in the RECORDER committee and the those who contribute articles as well as the focus article authors for their cooperation in enabling me to accomplish this goal.

I look forward to the new year starting in September 2013 with the intention of streamlining the RECORDER issue assimilation and proof reading process so as to be able to deliver a quality issue each month more efficiently.

*John Fernando
Chief Editor*

Website

Committee Members:

Marc Boulet

John Fernando

Jocelyn Frankow

Cheran Mangat

Will McCarthy

Mohammed Saiepour

The CSEG website/communications committee was revived in 2011 in an attempt to update and improve the presence of the Society in an online world that is constantly changing and ever increasing in its importance. A team of hard working volunteers has laboured to keep the website up to date with content and information relevant to the membership.

The Online RECORDER

According to traffic statistics the RECORDER is one of the most commonly utilized sections of the CSEG website so improving its ease of use was one of this committee's top priorities. In order to do this we needed to move away from the cumbersome pdf delivery system and toward a web-article format that is more commonly used to deliver content these days. Adding this format allows

articles to be more searchable, be linked to related articles, have vastly superior visibility on major search engines, and faster download times. Back-end systems were made simple enough that a computer savvy volunteer member could run the system with a little training.

As an additional option for those that enjoy thumbing through a magazine we have added a flipbook feature that allows members to virtually flip through a copy of the RECORDER as if they were holding it in their hands. It looks great, keeps the traditional RECORDER format intact, and works well on tablets.

These updates set the RECORDER up for the future as online readership numbers increase.

Website Overhaul and Rebranding

Updating the look of the website turned out to be a vast undertaking. After consulting with the executive committee it was determined that in order to do it right we needed to completely overhaul the CSEG's brand imagery using a professional firm.

In the search for the right company, there were three rounds of solicitations, and

several graphic design/marketing companies were evaluated and interviewed before a final selection was made. Consultations with the executive committee were held throughout the process and a new logo, brand imagery, and taglines were agreed upon and were delivered under budget.

The imagery was then used to completely overhaul the look of the website. The structure of the new website will also change and will be geared toward newer devices, including unconventional display sizes, tablets and phones. In addition it will provide a better organized, cleaner look for the Society. The completely overhauled website is scheduled to be rolled out at the annual general meeting in March.

As always we rely on members to provide us with feedback and always welcome new volunteers. We have many more ideas for the future and invite you to join us at the new and improved www.cseg.ca.

*Will McCarthy
Chair*

Canadian Journal of Exploration Geophysics (CJEG)

The Canadian Journal of Exploration Geophysics (CJEG), the peer-reviewed journal of the CSEG, was revived in 2010 following an eleven year hiatus. Electronic issues of CJEG were published in June 2011 and June 2012 each containing six peer-reviewed papers. The editorial staff of CJEG in 2012 included *Larry Lines* and *Satinder Chopra* as Co-Editors. The CJEG Associate Editors are *Sven Treitel*, *Patrick Daley* and *Kris Inmanen*.

As of February 2013, the journal has received 21 submitted papers. The statistics for these 21 submittals are as follows:

1. 12 papers have been published (6 in June 2011, 6 in June 2012 issues).
2. 1 paper has been accepted for the June 2013 issue.
3. 7 papers have been reviewed and are under revision.
4. 1 paper has been rejected as being inappropriate for CJEG.

All the journal papers are peer-reviewed in a timely fashion, with a desired turnaround time of less than 3 months. Papers are generally reviewed by 2-3 reviewers with technical expertise.

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

The criteria for submitted papers is outlined on the CSEG web site and are as follows:

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. Images should have high quality resolution (300 dpi) in either .tif or .jpeg format.

Papers may be submitted to the Co-Editors, Larry Lines at lrines@ucalgary.ca or Satinder Chopra at schopra@arcis.com. While the journal has published 6 papers per year, 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

CSEG Foundation

CSEG Foundation Overview

The CSEG Foundation is basically the charitable operating arm of the CSEG. It is managed by a Board of Directors, is closely aligned with the CSEG, and boasts a volunteer group in excess of 10% of the entire CSEG membership. Each main committee has submitted a report (following). Significant highlights are:

1. University Student Outreach assisted a record 398 university students to become CSEG members and we are ramping up our outreach and assistance to university and technical students even more for 2013. Watch for that. Outreach to high school students is arousing more interest in geophysics, and we have also targeted science teachers in our activities across Canada. The public is getting exposure to the CSEG & geophysics by our presence at career fairs.
2. Our first-ever fund raising campaign, launched last September, has raised just under \$400,000 in personal donations and pledges, as a result of a pre-Christmas approach to members. The corporate campaign will move forward in 2013, and the members' campaign will continue. The CSEG Executive transferred \$250,000 into our account in mid-2012, raising our endowment to ~\$1 million. Our current campaign has increased that endowment as described. The generosity of a number of donors has been overwhelming. Watch for recognition of our amazing donors.
3. The Canadian Distinguished Lecture Tour (Lee Hunt last year and Don Lawton currently): this tour is continually expanding and improving, with Don Lawton's Tour reaching a prodigious 27 stops. By connecting with our Ambassadors and University Student Outreach Programs we are hosting receptions at a number of lectures and providing information on CSEG membership to students and CSEG members across Canada.
4. Scholarships were again very successful, and we instituted scholarships to technical school students. Watch for new scholarships in 2013 due to increased funding.
5. Travel Grants & Educational Subsidies were accessed by students from across Canada; we are increasing our budget for 2013 to assist even more students.
6. The CSEG Foundation has an overwhelming number of volunteers – about 10% of our total CSEG membership. The

dedication of those volunteers and our high-profile Board of Directors has continued to make the efforts of the CSEG Foundation outstanding in virtually every way. The efforts and abilities of a core group of younger CSEG members is remarkable.

Each year we get a little better at what we do, through the organization and efforts of those volunteers and through funding – from you. Current terms of service are three 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 & Campaign Co-Chair: *Brian Russell* (CGG)

Secretary: *Laurie Ross* (Geo-X Exploration Services)

Treasurer: *Neil Rutherford* (Consultant)

CSEG Executive Member: *Ron Larsen* (RPS)

Scholarship Chair 2012: *Matt Klukas* (Talisman)

Scholarship Sr. Trustee & 2013 Chair: *Sarah Cutten* (ARC Resources)

2013 Sr. Trustee: *Marc Boulet* (Cenovus Energy)

Director-at-Large & Campaign Co-Chair: *John Boyd* (RPS)

Director-at-Large: *Annette Milbradt* (Tourmaline Oil Corp.)

Board Committee Members:

Jr. Scholarship Trustee: *Brian Emmerson* (Talisman Energy)

Kevin Bianchini (Shell Canada Limited)

Lee Hunt (Mimir's Well Exploration Corp.)

Mark Lane

Jessa-Lyn Lee (Apache Canada Ltd.)

Hassan Odhwani (CGG)

Tiffany Piercey (Imperial Oil)

CSEG Foundation Scholarship

The CSEG scholarship committee began its fundraising efforts for 2012 scholarships in February 2012 with a presentation at the February CSEG luncheon. At the luncheon the committee introduced a new initiative to accommodate the increasing demand for Geoscience technologists in our industry. To supplement this, 2012 was the inaugural year for two \$1000 scholarships to be awarded to students at an academic institution in Canada in a program of Geoscience Technology. Efforts were made to promote the new scholarship as efficiently as possible and the scholarship currently appears on the admissions website for SAIT, NAIT, and BCIT. Committee members have worked closely with the faculty at SAIT and will continue to try and personally introduce students to the scholarship program.

A major goal of the committee in 2012 was to increase applications across Canada. This was achieved through a tremendous effort from the University Student Outreach (USO) committee to advertise the scholarship at conferences and CSEG events throughout the year. We would like to thank the volunteers with the USO for helping us increase our applicants by 50% from 2011. We plan on continuing this partnership with the USO and their ambassadors in the hope of consistently increasing applicants year after year.

We are happy to report that many of our long term sponsors continued their support and several companies and individuals contributed for the first time. The CSEG scholarship committee received funding from 19 Canadian-based Oil and Gas companies,

service companies, individuals and trust funds to grant scholarships of \$2000 each to 19 deserving students from Universities across Canada, as well as supporting our new Geoscience Technology scholarship with two \$1000 scholarships awarded to deserving students. The scholarship committee would like to thank sincerely all of the sponsors for their continued support in helping geophysics students across Canada reach their academic goals.

Looking forward to 2013 the scholarship committee will continue to increase awareness to both industry sponsors and students across the country through the collaboration with the USO and CSEG. As our donations increase we will be looking to expand our footprint to recent high school graduates and promote the study of geophysics as early as possible. This will be accomplished by introducing 4 scholarships worth \$500 each to Canadian students graduating high school.

2012 CSEG Foundation Scholarship Committee

Chairman: *Matthew Klukas* (Talisman Energy)

Senior Trustee: *Sarah Cutten* (Arc Resources)

Junior Trustee: *Marc Boulet* (Cenovus)

2013 CSEG Foundation Scholarship Committee

Chairman: *Sarah Cutten* (Arc Resources)

Senior Trustee: *Marc Boulet* (Cenovus)

Junior Trustee: *Brian Emmerson* (Talisman Energy)

2012 Scholarship Recipients:

Recipient	University	Donor
Jordan VanDean	University of Calgary	Arcis Corporation
Brendan Snow	University of Alberta	Canadian Natural Resources Inc.
Nadia Kreimer	University of Alberta	Hampson-Russell – A CGG Veritas Company
Lorenzo Peroni	INRS	Matrix Geoservices Ltd.
Ken Guo	University of Toronto	Nexen Inc.
Timothy Hayward	University of Manitoba	PennWest Energy
Faranak Mohmoudian	University of Calgary	Pulse Data Inc.
Dennis Ellison	University of Calgary	Talisman Energy Inc.
Naimeh Riazzi	University of Calgary	Seisware Inc.
Adrian Smith	University of Calgary	Divestco Inc.
Scott Stephen	University of Calgary	PetroBank
Hoai Nam Vien	University of Saskatchewan	Tako Koning
Raymond Caron	Carleton University	Pinnacle
Hassan Khaniani	University of Calgary	Apoterra Seismic Processing & Sigma Exploration Inc.
Dong Shi	University of Waterloo	Larry Lines & Anonymous Donor
Andrea Christians	Dalhousie University	Tesla Exploration
Taras Zaporozan	University of Manitoba	Bob Won Trust Fund
Micah Morin	University of Alberta	Rob Shugg Trust Fund
Christine Shiels	University of Saskatchewan	CSEG Executive Scholarship

GeoScience Technology

Rosie Harris	BCIT	Olympic Seismic
George Nwigwe	SAIT	Chris Elms Trust Fund

CSEG Foundation cont'd

2012 CSEG Foundation Scholarship Donor Companies

2012 Donors

Sigma Exploration Inc.	\$ 1000
Apoterra Seismic Processing Ltd.....	\$ 1000
Arcis Corporation	\$ 2000
Pulse Data Inc.	\$ 2000
Canadian Natural Resources	\$ 2000
Olympic Seismic.....	\$ 1000
Hampson-Russell Software Services Ltd.....	\$ 2000
Matrix GeoServices Ltd.	\$ 2000
Nexen Inc.....	\$ 2000
PennWest Energy Exploration	\$ 2000
Larry Lines.....	\$ 500
Anonymous Individual.....	\$ 1000
Talisman Energy	\$ 2000
Seisware Inc.	\$ 2000
Divestco Inc.....	\$ 2000
PetroBank.....	\$ 2000
Tesla Exploration.....	\$ 2000
Tako Koning.....	\$ 2000
Pinnacle	\$ 2000
Total.....	\$32,500

Canadian Distinguished Lecture Tour

Every year, the CSEG Foundation sponsors a national Canadian Distinguished Lecture tour 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. The venues are typically universities and geoscience institutions, including Geological Survey of Canada offices, but also occasionally more public venues. Congratulations and thanks to Lee Hunt, the 2011-2012 CDL, who spoke on Quantitative Interpretation, New Challenges, and Economic Value and Don Lawton, the 2012-2013 CDL, who is speaking on Post-earthquake Seismic Reflection Survey, Christchurch, New Zealand. This expanding program is very well received and enthusiastically supported by the venue hosts. The CDL tour is also incorporating post-talk networking events for local CSEG members, students, and faculty at some locations. These networking events are growing in sophistication, as are all aspects of the tour, and are used to further promote the CSEG and its programs across Canada. The CDL lecturer also publishes one or more tour diaries in the RECORDER, and typically also publishes an expanded technical article of the lecture in the RECORDER. Starting in 2011-2012, PDF files of the CDL lectures are posted on the CSEG website. The CDL committee created a Guidebook in 2012 that defines many aspects of the CDL tour, as well as the responsibilities of the lecturer, chair, hosts, and committee. For details please visit: www.cseg.ca/education/lecture-tour.cfm. Lee Hunt is taking over as CDL Chair for 2013.

*Annette Milbradt
CDL Committee Chair 2012*

2013 CDL Committee

*Lee Hunt, Chair (Mimir's Well Exploration Corp.)
Don Lawton, Lecturer (University of Calgary)
Gerhard Pratt (University of Western Ontario)
Igor Morozov (University of Saskatchewan)
Michael Enachescu (Memorial University)
Ron Clowes (University of British Columbia)
Brian Russell (Hampson-Russell/CGG)
Richard Smith (Laurentian University)
Satinder Chopra (Arcis Corporation)
Annette Milbradt, Past Chair (Tourmaline Oil Corp.)*

CSEG Foundation Travel Grant and Learning Subsidy Program

Committee: *Kevin Bianchini, Jessa Lee*

The role of the Travel Grant and Learning Subsidy program is to assist CSEG members develop their professional geoscience knowledge or skills by supporting educational opportunities.

In 2012 the CSEG Foundation (CSEGF) Travel Grant and Learning Subsidy program gave \$7,504.91 to fund 52 students to travel and attend events such as the CSEG Convention, the SEG Annual meeting, PDAC, geophysical workshops, WUIGC, and CUPC. In addition, a \$750 travel grant was awarded to Susan R. Eaton for her trip with the Jackson School of Geoscience Antarctic Expedition in December 2012 (See the table below for more details).

Institution or Individual	Event	Attendees funded
University of Regina	Prospectors and Developers Assn of Canada Convention	10
University of British Columbia	GeoConvention 2012	3
University of Manitoba	GeoConvention 2012	1
University of Calgary	GAGGS Seismic Interpolation Workshop	9
University of Calgary	Society of Exploration Geophysicists Convention	19
INRS – University of Quebec	Canadian Undergraduate Physics Conference	1
University of Manitoba	Society of Exploration Geophysicists Convention	9
Susan Eaton	Jackson School of Geoscience Antarctic Expedition	1

The total 2012 grant amount was \$8,254.91 of the program's \$10,000. Our total grant amount would have been higher but a number of individuals cancelled their funding request for various reasons including the inability to secure sufficient funding.

A total number of 80 applicants would have received over \$10,800 in funding if not for the cancellation of the requests. It was reasons such as an increasing annual number of applicants and the inability of some groups to fully secure sufficient funding that led the CSEGF Travel Grant and Learning Subsidy Committee secure a \$16,000 budget for 2013. The increased budget will allow the program to provide a higher \$/student ratio and better allocation of the funding budget to each of our application deadlines. Of the 2013 budget, the committee has a discretionary budget of \$1,000 to further assist applicants in need whose travel or learning costs may exceed both the standard funding guidelines and the resources available to them.

The CSEG Travel Grant and Learning Subsidy program continues to provide CSEG members the opportunity to develop, share and experience Geoscience in a variety of ways. We thank the CSEG Executive, the CSEG Foundation, the CSEG Outreach committee and our applicants for continuing to make this program a success.

CSEG Foundation cont'd

CSEG Foundation Outreach Committee

The CSEG Foundation Outreach Committee builds and nurtures relationships between the CSEG and its current members, prospective members, and university students. It also educates all these, as well as grade school students and the general public, about the science of geophysics. Through 2012 the CSEG Executive and Foundation continued their solid financial and moral support, allowing our many volunteers to successfully complete another busy year of productive activities.

The committee's core members are:

Louis Blinn
Karen Chong
Torr Haglund
Helen Isaac
Stephen Kotkas
Gabriel Solano
Mark Lane
Annette Milbradt
Virginia Vera
Marissa Whittaker

In 2012, to help track the Committee's extensive activities, the Chair inaugurated three new positions:

Treasurer, *Louis Blinn*
 Secretary, *Virginia Vera*
 Archivist, *Karen Chong*

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 Akililu, Mohammed Al Ibrahim, Janet Anstett, Andy Ayer, Shaun Ali, Stephanie Benay-Dexter, Ryan Badr, Sheldon Barron, Chris Barton, Chris Bird, Ted Best, Shminder Bhathal, Kevin Bianchini, Chris Blackwood, Maren Blair, Marc Boulet, Trevor Borden, Charles Boyer, Pat Brown, Candace Bruins, Ryan Burnham, Petra Buziak, Alanna Caldwell, Jeff Calvert, Judith Chan, Mark Ciccone, Eric Clarke, Jennifer Cranshaw, Jeff Crowhurst, Brian Curts, Sarah Cutten, Greg Davidson,

Lance Derkach, Greg Deutscher, Vince DeWolfe, Jill Dreger, John Duhault, Michael Eberhard, Carter Edie, Jen Elgar, Nanna Eliuk, Dennis Ellison, John Evans, Alasdair Fergusson, Nathan Fester, Ronaldo Florendo, Adam Flynn, Aaron Foyer, 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, Ahmenda Hassain, Paul Hausmanis, Melissa Hernandez, Teddi Herring, Steven Hill, Elaine Honsberger, Tal Hogbin, Thomas Hollis, Holly Hood, Kelly Hrabi, Corina Irvine, Mark Jeroncic, Rhonda Jewett, Juan Joffre, Brian Kallweit, Cecil Keeping, Phil Keith, Hassan Khaniani, Salma Khatun, Matt Klukas, Amanda Knowles, Michelle Korodimas, Perry Kotkas, Oliver Kuhn, Ron Larson, Caitlin Latimer, George Lau, Carol Laws, Claudine Lee, Jessa-Lyn Lee, Tom Lemon, Jennifer Leslie-Panek, Jane Ling, Heather Lloyd, Jaime Lo, Daniel Loas, Sean Lovric, John MacDonald, Tyler MacFarlane, Marko Mah, Glenn Malcolm, David Manthei, Abraham Masri, Doug McConnell, Katy McKercher-Ma, Lynsey McKinnon, Shafeena Meghji, Shamez Meghji, Karin Michel, Steven Milbradt, Keith Millis, Carolina Mirabella, Marivi Molina, Devika Naidu, Melissa Newton, Matthew Ng, Matteo Niccoli, Andrew Nicol, Haley Nielsen, Godfrey Nolan, Andrew Nuytten, Hassan Odhwani, Brad Ohler, Jeff Packard, Tiffany Piercey, Tom Podivinsky, Kyla Poelzer, Mike Preiksaitis, Doug Pruden, Greg Purdue, Lijun Qi, Maria Quijada, Samuel Quiroga, Pam Rempel, David Reynolds, Danielle Robertson, Doug Robertson, Sean Roche, Mike Rogers, Brian Russell, Brian Rutherford, Neil Rutherford, Shahin Sabbari, Alex Saldana, Hong Sang, Chris Savels, Tacita Schmidt, Veronica Sekella, Usman Shahid, Diane Shao, Nancy Shaw, Alex Shrake, Samantha Siegal, Vladan Simin, Nav Sira, Claus Sitzler, Steven Smith, Michael Smorodin, Gabriel Solano, 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, Kathryn Welsh, Rachel Wierzbicki,

Rick Wierzbicki, Zak Wierzbicki, Chris Wigg, Caroline Williams, Allan Willis, Barb Wingate, April Wolff, Alex Wright, Ryan Zahynacz, Liliana Zuleta, Lauren Zvanciuk, and Tammy Yu.

Thank you, also, to the many companies and organizations who allowed their staff to participate in our many programs and initiatives.

In 2012, Louis Blinn chaired **Schools Outreach** and Annette Milbradt chaired **Public Outreach**. Our dedicated and enthusiastic volunteers attended 19 career fairs and assorted exhibitions in 2012, 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 presentations, interactive seismic displays and other teaching aids. Volunteers also responded to requests from schools for numerous in-school presentations.

From May 13th to 15th 2012, over 2000 students, teachers, and general public attended the third annual highly successful **Earth Science for Society (ESfS)** exhibition, run in conjunction with the Joint Annual Convention. ESfS had a strong line-up of 20 exhibitors and 75 volunteers who filled 155 shifts.

From October 2nd to 4th, CSEG-F Outreach hosted a record 164 students from Juno Beach Academy, the Career and Technology Centre, Henry Wise Wood, James Fowler and Centennial schools in Calgary and, for the first time, Canmore Collegiate, at the **Seismic in Motion for Students** field trip, where companies showcase their seismic acquisition technologies and procedures. Outreach volunteers visited the schools beforehand and briefed students about careers in geophysics, and prepared them for their day in the field. They also guided the students on site through various field stations, including the CSEG booth. At the booth, we provided participants with an integrated overview of the various parts of the program. We continue to receive positive feedback from participants and extend a big thank-you to all the volun-

teers and sponsors for their generous time and financial contributions to these important and successful events.

The University Student Outreach (USO) committee was led by Stephen Kotkas and Gabriel Solano. This year it brought the Outreach booth to five undergraduate conferences, including the Canadian Geophysical Union's convention for the first time, attended multiple university career fairs and presented several Best Geophysical Paper awards. The USO maintained its ongoing communication with students through e-mail and regular newsletters, connecting them with the Scholarship committee and the Foundation for travel grants; organized a student area at the convention; helped to deliver Geoskills 2012 for university students and junior geophysicists; provided networking opportunities; and ran the annual summer student field trip (Geophysics Industry Field Trip, GIFT) for 35 students.

The USO also maintained its cooperation with other organizations to help administer events such as AAPG's Imperial Barrel Award, CSEG/EAGE's student chapter talks, and APEGA's Alberta Student Energy Conference. The **Mentorship Program**, in its fourth year, continued its steady growth through 2012, accumulating more than 20 protégé-mentor pairings between university students and seasoned professionals.

We are pleased to recognize and thank **Gedco** for their generous sponsorship of 2012 student memberships, and welcome **RPS Energy** as the 2013 sponsor. We greatly appreciate this valuable contribution!

The 2012 **Challenge Bowl** subcommittee was led by Gabriel Solano and supported by many volunteers, notably

Stephen Kotkas and his USO team. The event's indefatigable host and moderator, Peter Duncan, once again navigated eight teams of competitors vying for an expense paid trip to compete in the Challenge Bowl finals at the 2013 SEG convention. Duncan's high energy style fed enthusiastic audience participation throughout the action-packed geoscience competition with competitors Naser Yousefzadeh and Kenneth D'Silva, representing the University of Calgary, taking the top spot.

CSEG Outreach members volunteered on the **Honorary Address (HA) committee**, chaired by Marissa Whittaker. This year's event took place in November, with the theme From Evolution to Exploration: Our African Journey. Dr. Trent Rehill, VP of Exploration for Kulczyk Oil Ventures of Calgary initiated the presentations by explaining the motivations of explorationists around the world, leading to the crossover point between the world of petroleum exploration and the topic of hominoid origins. Then keynote speaker Dr. Ian Tattersall, Director Emeritus of Anthropology at the American Museum of Natural History in New York, presented a fascinating history of the human hereditary tree and its origins. About 1,100 actively engaged students attended the daytime talks at the Southern Alberta Jubilee Auditorium. Over 500 members of the public and students of the Geoscience and Archeology departments at the University of Calgary came to the evening event, where Outreachers manned the CSEG booth.

Ambassadors are CSEG representatives in cities across Canada and internationally. In 2012, under Torr Haglund's guidance, the program reinforced its relationship with the CSEG Canadian

Distinguished Lecture tour, facilitating meet-and-greet opportunities at countrywide venues for CSEG members and university students. Events were run at the University of British Columbia, Queen's University, the University of Toronto, the University of Western Ontario, and Memorial University. We gratefully acknowledge CSEG Member Services for its ongoing support of this program.

Outreach members work with many other organizations to share outreach and education ideas and resources and to support their complementary geoscience initiatives. This collaboration has facilitated our continued expansion into B.C. and central and eastern Canada in 2012.

Helen Isaac is the CSEG Foundation Outreach publications coordinator for reports on Outreach activities. We encourage you to read our column in the Regular Features section of the **RECORDER**.

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

*Mark Lane, Chair – 2012
Karen Chong, Archivist – 2012*

As you have just read, the CSEG Foundation is a large, dynamic organization, driven by a huge number of very dedicated volunteers and their group leaders. Your support and the support of the CSEG Executive has, and will allow the CSEG Foundation to continue its efforts. By reading this far, you have shown significant dedication yourself; consider working with us as we support students and members across Canada, and cause the public to become more aware of the science of geophysics and the CSEG.

Perry Kotkas

2012 Lunchbox Geophysics

Committee Co-Chairs:

Rob Holt
Julie Latter

Lunchbox Geophysics is an informal, free-of-charge technical lecture series that brings a variety of topical geophysical presentations to CSEG members. The Lunchbox Geophysics committee welcomes all interested parties to submit their ideas for future talks. Our contact information can be found on the web page: www.cseg.ca/events/lunchbox.cfm.

For the 2012 season, six excellent talks were given:

- **January 2012** – Hassan H. Hassan, Fugro – *Texture analysis of high resolution aeromagnetic data to delineate geological features in the Horn River Basin, NE British Columbia*

- **March 2012** – Bill Goodway, Apache – *Cost efficient acquisition to reduce coarse land 3D line spacings through beyond Nyquist interpolation*
- **April 2012** – Rob Vestrum, Thrust Belt Imaging – *Reaching a broader audience with your geophysics talk*
- **October 2012** – Doug Uffen, Reflection Peak Enterprises – *How to set up a data room*
- **October 2012** – Lee Hunt, Fairborne Energy – *A practical perspective on APEGA's guidelines for ethical use of geophysical data*
- **December 2012** – Shuki Ronen, CGG Veritas – *Ocean-bottom acquisition and processing: past, present, and future*

There are many people who volunteered their time to make these talks possible:

our speakers; Fugro-Kelman volunteers Pat McKenny, Larry Adorjan and Sid Liaqat who generously supplied the Aquitaine auditorium, the projector, and beverages; Marc Boulet and John Rennie who provided IT support and recorded the talks for the CSEG website; and Mo Al-Ibrahim and Virginia Vera who provided additional IT support and took pictures at several Lunchbox Geophysics talks.

Finally, I would like to single out and commend Julie Latter's contribution to Lunchbox Geophysics. Julie has demonstrated outstanding leadership and enthusiasm for Lunchbox Geophysics over the last five years and has, I believe, been instrumental in making this event a true success.

Rob Holt

Chief Geophysicists Forum

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

The CGF membership stands at 65 plus 12 alternate and sub-committee members in 2012.

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

- Continuation of the CGF webpage on the CSEG website including Membership list, Micro-seismic document and a continuation of the CGF Reserves document all available to the general public.
- CGF Hydrocarbon Reserves document will be included in the 2013 release of COGEH's volume 3 update.

- CGF interaction and connection with the SEG OGRC on topic of using geophysics in reserves/resources estimations and classifications. Marian Hanna co-chaired SEG OGRC workshop at SEG 2012 Annual Meeting in Las Vegas.
- CGF Micro-seismic sub-committee document completed, put on CGF webpage and article to be published in 2013 RECORDER issue. This document has been well circulated within the SEG and industry.
- CGF summarized meeting minutes on Member Login area of CSEG website for all membership to access.
- Secured at least one paper from Calgary industry for special edition September 2012 TLE for SEG OGRC. Eric von Lunen et al (Nexen Inc.) contributed article and Eric also was SEG D&P speaker for SEG 2012 luncheon

based on their publication. Recommended by Marian Hanna

Our 2013 goals to achieve include:

- Continuation to ensure all CGF members are CSEG members
- Potential CGF Reserves sub-committee help for APEGA practice standard on same subject
- Potential CGF technical advisory role to APEGA council
- Continued Micro-seismic sub-committee work
- Any other business to address that affects our technical profession and industry

Tom Podivinsky is the CGF 2013 Chairman.

Marian C. Hanna
2011/2012 CGF Chair

Junior Geophysicists Forum (JGF)

The 10th Junior Geophysicist Forum was November 13, 2012 at the Hyatt Regency. Laurie Bellman, Geophysics and Quantitative Interpretation Director at Canadian Discovery was this year's guest speaker and provided an entertaining overview of her career and insights into the future of the industry.

The event was well attended and we have received positive feedback from the

attendees. 163 people registered with a similar distribution to recent years.

Senior Geophysicists – 26%
Junior Geophysicists – 31%
Students – 43%

The committee was comprised of:

Mark Lukwinski – Chair/Sponsorship

Rob Vestrum – Co-Chair

RJ Vestrum – Finance

Jessica Baldwin – Event Co-ordinator

Jennifer Welsh – Venue/Event Co-ordinator

Daniel Loas – Secretary

We look forward to another great event in 2013.

2012 Doodlebug

The 2012 Doodlebug was held for the third year in a row at the beautiful Kimberley Alpine Resort and nearby Trickle Creek Golf Course on August 23-25. Mother Nature cooperated, supplying a weekends worth of warm sunny weather for the 156 golfers, spouses, and significant others who participated in the golf and other social events over the course of the weekend. The 2012 Doodlebug once again lived up to its reputation of being the CSEG's premier social event.

This year's theme was the "Psychedelic Sixties" in honor of the tournament's 60th anniversary. Go-Go Dancers and Jimmy

Hendrix impersonators could be found in abundance at the Saturday evening themed dinner.

The Doodlebug committee unanimously decided to choose "Direct MS" as its charity in honor of Rob Shugg who lost his battle with MSI in Sept of 2011. Rob's wife Karen was kind enough to accept our invitation to be the guest of honor at the event and through the various contests, raffles and donations \$7,500 dollars was raised and donated to Direct MS.

The main focus of the event is of course the Doodlebug Golf Tournament itself.

Once again the cherished "Ceramics" were competed for in the various flights over the course of the weekend. The winner of the top "Doodlebug" flight was Alan Starkoski. This marks Al's fourth championship putting him in a very elite group of multi time winner.

Now As Past Chairman I can tell you that the Doodlebug Committee is working hard to take the tournament to new heights in 2013. We look forward to seeing you Kimberley!

Chris Heaver

Doodlespiel

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 Cedar-gren, 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

Next year in Banff will be better than ever.

Victor Irwin
2012 Chairman

DoodleTrain

The 11th running of the CSEG DoodleTrain Educational Training Week was staged November 12th to 16th, 2012. Over 420 members registered for a course this year, a return to the attendance numbers of past years, before the economic downturn of 2008/2009. A total of twenty (20) courses were staged during the week-long event. Seven (7) courses sold out before the close of registration in September. Twelve (12) new courses were introduced this year, four (4) of which comprised the seven (7) courses that sold out early.

This year saw many firsts for the DoodleTrain program. The DoodleTrain Committee branched out to expand its program with a pilot test, offering a webinar for the first time. Dr. Rob Stewart presented a 2-hour webinar on the topic of Converted Wave Seismic Exploration. The Committee also moved forward the Early Bird registration deadline from late September to June 30th. This required a lot of advertising and promotion to make members aware that the Early Bird Registration date was being moved forward by two and a half months. This proved to be highly effective and alleviated much of the panic that typically ensued during October, prior to staging the annual event. The committee was better able to plan and organize its affairs. Time crunches for office staff were also alleviated but not eliminated completely, however much progress was made. In 2012, the DoodleTrain approached industry recognized experts to create and build two courses specifically for the DoodleTrain, to be offered in 2012 and potentially in successive years. The Fundamentals of Survey course was offered by Neil Thompson and Bart Iverson. A second course entitled, *Bits, Bytes, Seismic Data Formats: Pitfalls in Seismic Data Loading*, was offered by Eric Keyser. One of these courses sold out early with the other one receiving strong support through member registrations. These courses specifically targeted non-professional members of the geophysical community, attempting to offer courses of interest for all society members, not just professional members. Much appreciation goes out to these people for taking the time and significant effort to build a course for the DoodleTrain. Also in 2012, the CSEG Executive decided that the DoodleTrain Committee would be responsible for offering courses at the annual convention in May. The Curriculum Sub-committee has already been working on this task and is planning to offer workshops on specific topics of interest to convention delegates. Some of the most popular courses that have sold out in previous years of the DoodleTrain may also be offered at convention time in May.

In 2013, the DoodleTrain Committee will re-visit the professional skills courses to see what can be done to make them more popular. Registrations caused the committee to cancel four (4) courses this year. The committee is considering lowering the

costs for these courses, dropping them from the program all together, or converting them into webinars. Whatever happens, it will be re-tooled for 2013.

So, 2013 will see the DoodleTrain committee offer courses and/or workshops at the convention, expand the successful webinar program and perhaps re-tool the professional skill courses. Many of the popular courses will be brought back again for 2013, with some new ones introduced. Please do not hesitate to contact Mike Hall, your 2013 DoodleTrain Chairman, if you have any ideas for the convention workshops or the 12th running of the DoodleTrain in 2013.

I wish to recognize and thank the members of the committee for 2012, for all their hard work in helping to plan and stage DoodleTrain 2012. Specifically, I wish to thank the following committee members:

<i>Sheryl Meggeson</i>	Sponsorship/Printing/ Administrative Support
<i>Jim Racette</i>	CSEG Managing Director
<i>Mike Hall</i>	Venues/Curriculum Committee
<i>John Fernando</i>	Curriculum Committee
<i>Juan Joffre</i>	Curriculum Committee/ Instructor Liaison
<i>Stacy Sudlow</i>	Instructor Liaison
<i>Danielle Robertson</i>	Venues
<i>Vicente Oropeza Bacci</i>	Website
<i>Maggie Jiao</i>	Printing /Marketing
<i>Davood Noroozi</i>	Printing
<i>Akshay Gulati</i>	Webinars
<i>Jounada Oueity</i>	Webinars
<i>Darren Tallas</i>	Immigration/Course Volunteers
<i>Patricia Gavotti</i>	Course Volunteers

It has been a pleasure working with, and getting to know all of you.

It has also been an honour to be of service to the CSEG membership.

Doug Uffen
2012 DoodleTrain Chairman

4th Annual CSEG T-Wave Golf Tournament

The 4th Annual CSEG T-Wave Golf Tournament was held on June 25th at the Inglewood Golf & Curling Club. Considering that June was once again very wet in Calgary; with possible flooding about to happen from the Elbow and Bow rivers, we once again received privileged treatment by Mother Nature as she only opened up the rain clouds for about two holes and Inglewood which had some flooding on a couple of the holes allowed us the use of power carts. We once again had a full slate of 144 golfers registered and as in the past, we had a mix of 50/50 geophysicist/service personnel.

Our Sponsors this year were (and are also on the website):

Ace Level – Nexen, SourceX Geophysical Corporation, Synterra Technologies

Eagle Level – Absolute Imaging, Command Equipment/Terra-Sine, Divestco, Earth Signal Processing, MicroSeismic, Pulse Seismic, RPS Boyd PetroSearch, Sensor Geophysical Ltd.

Albatross Level – GeoTir, Schlumberger, WesternGeco

Birdie Level – Arcis Seismic Solutions, BJV, Eagle Canada, Geospace Technologies Canada, ION Geoventures, Lornel Seismic Project Management, Maxam North America, Print Three, Sigma/Apoterra

This year the committee chose the Calgary Board of Education's Fuel for School nutrition program which provides a nutritious breakfast for hungry CBE students. 50/50 tickets were sold as well as Pulse Seismic once again sold tickets which gave a team the ability to use the

pro's drive on that hole. A total of \$1345 was raised with Pulse raising a large percentage of that.

A big thank you goes to all the great committee members who made this tournament such a huge success. As always we learned somethings that we will attempt to implement next year in order to continue to put on a Great Fun event for everyone.

Sponsorship – *David Caldwell, Dennis Melrose, Craig Van Dongen, Mike Cardell and Sandy Lucas*

Golf – *Patty Evans and Jim Hostetler*

Finance – *Susan Thomson*

Registration – *Dick Willott*

Prizes – *Susan Thomson, Dave Reynolds, Patty Evans and Jim Hostetler*

Once again, graciously and whole heartedly, Jeff Gautreau helped out the day of the tournament with registration and 50/50 tickets.

It was a fun filled packed day and by the feedback we have received from our sponsors and members everyone enjoys the tournament. We took a poll of the players regarding the possibility of expanding the event to 27 holes, we will be staying at 18 holes and at a venue close to downtown. If anyone wants to give additional feedback they are free to email me at Jocelyn_frankow@sensorgeo.com as we are always looking at ways to improve the tournament.

*Jocelyn Frankow
Chairman, CSEG T-Wave Tourney*

CSEG Symposium

The inaugural CSEG Symposium was held on March 22nd, 2012 at the Telus Convention Centre, Calgary. This event was initiated to honour Canadian geophysicists who have distinguished themselves through their outstanding contributions to our industry. This is primarily an industrial honour focused upon the honourees' manifold technological innovations, which may encompass many aspects of geophysics. Honourees are also selected based on their contributions to our geophysical society and its members' understanding of geophysical applications, particularly through technical leadership and the sharing of industrial knowledge. The idea of holding an annual CSEG Symposium found active support from the 2011 CSEG Executive, and so the plan is that each year this event will bring together some of the best known practitioners in the industry to deliver case study talks on the latest value add developments.

It was my distinct privilege to organize this inaugural event. I had the backing of some very enthusiastic individuals who were the members of the CSEG Symposium Committee, namely, Oliver Kuhn (Apoterra Seismic Processing Ltd.), Lee Hunt (Fairborne Energy Ltd.), Dave D'Amico (Talisman Energy Inc.), Penny Colton (Sensor Geophysical Ltd.), John Fernando (SAIT), Carmen Swalwell (Swalwell Resource Consulting Inc.), and Roger Smith (University of Calgary). For the inaugural symposium, our committee chose to honour Dan Hampson and Brian Russell, whose names are unarguably well-known the world over, through their software applications as well as their research, which have stood the test of time as well as the doom and gloom of the economic downturns. The theme for the Symposium was selected as 'Value-added reservoir geophysics' and the focus was on case studies. It is the intention of the committee that case study talks be a cornerstone of future symposiums.

The day began with a keynote address for the Symposium by **Jon Downton** from Hampson-Russell, who spoke on '*Seismic Reservoir Characterization*'.

The other speakers and the titles of their talks are as follows:

Lee Hunt, from Fairborne Energy: '*Illuminating the controls on performance in the Cretaceous tight gas sands of West Central Alberta: resource simplification to geological parameterization*'.

David Gray, from Nexen: '*Getting everything out of oilsands seismic data*'.

Laurie Bellman, from Oil Sands Imaging: '*Grand Rapids oil sands 3D seismic – incorporating and comparing multiple data types for reservoir characterization*'.

Larry Lines, from University of Calgary: '*Reservoir characterization case studies of Cold Heavy Oil Production with Sand (CHOPS)*'.

Brian Russell, from Hampson-Russell: '*Biot, Gassmann and Me*'.

James Schulke, from Devon Energy: '*How conventional tools are used in unconventional plays*'.

John Eastwood, from Imperial Oil: '*Cold Lake heavy oil reservoir geophysics – learnings and impact*'.

Bill Goodway, from Apache Canada: '*Fit for purpose 3D Seismic and microseismic for geomechanical characterization of gas shales*'.

Finally, **Marian Hanna**, from ION Geophysical: '*Geophysical applications – using geophysics for reserves and resources classification and assessment*'.

Keith Hirsche, who has had a long association with the Hampson-Russell duo, talked about their professional lives and achievements during his more personal tribute speech.

The day went by quickly, with the eloquent and learned speakers keeping the audience's interest going, talk after talk. Once the regular talks were completed, both Dan and Brian were invited to say a few words. Both thanked the CSEG for arranging the first Symposium in their honour and expressed how overwhelmed they were with the attendance and the smooth running of witnessed program featuring an unparalleled collection of quality talks.

Each of the presenters was awarded a beautiful Labradorite rock with the CSEG logo as a token of appreciation for their efforts.

It was suggested that the CSEG awards ceremony be held during the luncheon of the CSEG Symposium to raise the profile of the service awards, rather than the old practise which was to deliver them during the AGM. The CSEG Executive agreed to this idea, and so the CSEG awards for 2011 were distributed during the luncheon. This component was very well received and the recommendation is that it be continued as the preferred venue for the awards ceremony.

Finally, the Chair for the 2013 CSEG Symposium Committee, Oliver Kuhn, was invited to say a few words and wrap up the meeting.

On behalf of the Symposium Committee as well as the CSEG, I would like to thank the sponsors for this event, namely APEGGA, Arcis Seismic Solutions, CG-Veritas, Sensor Geophysical, Talisman Energy, and TAQA. Sponsorship support in cash or kind helps organize such events and so is gratefully appreciated.

With the positive feedback received by the members of the CSEG Symposium Committee, we hope the future CSEG Symposiums are organized as stellar annual events that the geophysicists in the local community and outside as well look up to.

More details on the Symposium can be found on the CSEG website (www.cseg.ca/symposium).

*Satinder Chopra
Chair, 2012 CSEG Symposium Committee*



The first CSEG Symposium honourees – Brian Russell (L) and Dan Hampson (centre) – with Satinder Chopra (R), Chair, 2012 CSEG Symposium.



The 2012 CSEG Symposium Committee members: (L to R) Oliver Kuhn, Lee Hunt, John Fernando, Satinder Chopra, Dave D'Amico and Penny Colton (Carmen Swalwell and Roger Smith not present for photo).

Women in Seismic Golf Tournament

Thanks again to the 120 women and the Sponsors who participated in the 12th Annual Women in Seismic Golf Tournament at Fox Hollow Golf Course. The weather was amazing this year, and so was what we accomplished!

We raised just over \$23,000 for the Alberta Cancer Foundation, which supports initiatives in Calgary to assist people affected with cancer. The money we donate from this tournament goes specifically to Breast and Ovarian Cancer in Calgary. This is a great cause and they truly appreciate your time and generous donations. \$5000 of this donation was made by the owner of the Fox Hollow Golf Course.

We had a Sponsor on every hole and a few 19th Hole Sponsors as well! Great job Kristy! Thank you to our Sponsors. Without their generous support we would not have been able to generate this much money for the Alberta Cancer Founda-

tion. Thanks go out to Imageco Solutions, Santos, Surveyza, United DataWyse, Target Data, GeoTir, Microseismic, Earth Signal, Fugro, Divestco, Edge Technologies, Copyseis, Pulse, Sigma, Sensor, IHS, Outsource Seismic, CGGVeritas, Arcis, Inova, Tesla, Olympic, Rife, Freehold Royalties and Explor!

Thank you to Pam Larson working her tail off and getting all those amazing prizes! Every team walked away with a prize and a few lucky ladies got a great Raffle or Silent Auction item as well.

Thank you to Holly Hood, who made all the signs, place mats, and pamphlets. It was also her idea to do Rockets for Mulligans (I think a lot of those never made it to the cart!).

Thanks also to Divestco (Amanda Mansell and Danielle Harrison) for doing registration, name tags, and the follow up survey. Thanks to Jennifer Sawatzky as

well for help the morning of registration.

Thanks also to Fox Hollow Golf Course for their continued support for this event. The staff, both on the course and in the kitchen, give 110% to make sure that all participants have a great day. They go out of their way to make sure this is a first class event.

I am excited to keep improving this tournament, so please take time to respond to the survey. Watch the RECORDER for information on the 13th Annual Women in Seismic (WiSe) Golf Tournament in the New Year!

Thanks again to all attendees and everyone who made the event a success!

*Joanne Poloway
Chair of the Women in Seismic
Golf Tournament*

Ski Spree

The 45th annual CSEG Family Ski Spree was held February 24th and 25, 2012. The CSEG membership and their families totaling 334 registrants once again descended upon the Fairmont Hot Springs resort for a weekend of family fun and mildly competitive games. The format for the weekend is a long standing tradition which begins with registration early Friday evening followed by activities for all age groups. Starting with the youngest, a "Toddler Room" provides entertainment for the youngest future Geoscientists to enjoy some fun riding Thomas the Tank Engine or taking a ride on a mini rollercoaster. New this year was the addition of a mini Bouncy Castle which was a big hit! All of the activities in the Toddler room are supervised by certified day care workers allowing Mom's and Dad's a chance to have a little fun of their own knowing their children are well looked after and having a blast. For the older children a night of crafts, pizza and a movie are the order of the evening. A

variety of crafts are available for the children to choose from. This year's hit was stuffed Teddy Bears which went over very well although my personal favorites were the crafts that involved a hammer. You have not lived until you have heard the sound of 20 plus hammers banging away at the same time. A tradition of many years, the teenagers start their evening off with a scavenger hunt with the winners receiving gift certificates. Other activities for the teens include fuze ball, hot wheels and air hockey.

Food and entertainment is also provided for the adults. This year a buffet themed "A night in Italy" was very well received. Later in the evening the long standing Hot Wheels Grand Prix was held ensuring that the adults are not omitted from the fun and games.

Saturdays activities moves to the Fairmont Ski Hill located just up the mountain from the Hot Springs Resort. A "Snow Snake Hunt" and "Obstacle

Course" race are held for the younger children while older children, teens and adults are encouraged to participate in the Snowboard and Ski Races. Lunch and an Apres Ski function are also supplied at the hill. Saturday night is the awards dinner where medals and prizes are awarded to winners and participants. Later in the evening a charity raffle is held with proceeds going to the "Alberta Children's Hospital. The evening is capped off with live entertainment and dancing in the hotel bar and for some a nightcap soak in the hotels hot spring pool.

On behalf of the organizing committee we hope everyone had a wonderful weekend and look forward to seeing everyone again next year.

*Chris Heaver
CSEG Family Ski Spree Chairman 2012*



INDEPENDENT AUDITOR'S REPORT

To the Members of Canadian Society of Exploration Geophysicists

I have audited the accompanying financial statements of Canadian Society of Exploration Geophysicists, which comprise the statement of financial position as at December 31, 2012 and the statements of revenues and expenditures and net assets 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 Accounting Standards for Not-for-Profit Organizations, 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 qualified audit opinion.

Basis for Qualified Opinion

In common with many not-for-profit organizations, Canadian Society of Exploration Geophysicists derives revenue from memberships, registrations for luncheons and professional development courses and sponsorships, the completeness of which is not susceptible to satisfactory audit verification. Accordingly, verification of these revenues was limited to the amounts recorded in the records of Canadian Society of Exploration Geophysicists. Therefore, I was not able to determine whether any adjustments might be necessary to these sources of revenue, excess of revenues over expenses, and cash flows from operations for the year ended December 31, 2012, current assets and net assets as at January 1, 2012 and December 31, 2012

(continues)

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Independent Auditor's Report to the Members of Canadian Society of Exploration Geophysicists
(continued)

Qualified Opinion

In my opinion, except for the possible effects of the matter described in the Basis for Qualified Opinion paragraph, the financial statements present fairly, in all material respects, the financial position of Canadian Society of Exploration Geophysicists as at December 31, 2012 and the results of its operations and its cash flows for the year then ended in accordance with Canadian Accounting Standards for Not-for-Profit Organizations.

Comparative Information

Without modifying my opinion, I draw attention to Note 1 to the financial statements which describes that Canadian Society of Exploration Geophysicists adopted Canadian Accounting Standards for Not-for-Profit Organizations on January 1, 2012 with a transition date of January 1, 2011. These standards were applied retrospectively by management to the comparative information in these financial statements, including the statements of financial position as at December 31, 2011 and January 1, 2011 and the statements of revenues and expenditures and net assets and cash flows for the year ended December 31, 2011 and related disclosures. I was not engaged to report on the restated comparative information, and as such, it is unaudited.

Calgary, Alberta
February 26, 2013

CHARTERED ACCOUNTANT

CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

Statement of Financial Position

December 31, 2012

	December 31 2012	December 31 2011	January 1 2011
ASSETS			
CURRENT			
Cash and cash equivalents	\$ 898,313	\$ 794,698	\$ 630,549
Accounts receivable	125,939	204,888	127,560
Prepaid expenses	117,020	63,265	63,366
	1,141,272	1,062,851	821,475
FURNITURE AND EQUIPMENT (Note 5)	25,964	26,398	12,345
RESTRICTED FUNDS	875,000	875,000	875,000
	\$ 2,042,236	\$ 1,964,249	\$ 1,708,820
LIABILITIES AND NET ASSETS			
CURRENT			
Accounts payable and accrued expenses	\$ 417,771	\$ 66,112	\$ 78,829
Deferred income	51,704	45,761	25,359
	469,475	111,873	104,188
NET ASSETS			
Capital assets	25,964	28,398	12,345
Internally restricted	875,000	875,000	875,000
Unrestricted	671,797	950,978	717,287
	1,572,761	1,852,376	1,604,632
	\$ 2,042,236	\$ 1,964,249	\$ 1,708,820

ON BEHALF OF THE BOARD

_____ Owner

_____ Owner

See notes to financial statements

3



CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS
Statement of Revenues and Expenditures and Net Assets
Year Ended December 31, 2012

	2012	2011
REVENUES		
Memberships - individual and corporate	\$ 115,950	\$ 106,293
Distiguished lecturers	19,933	22,973
Continuing education	47,586	14,920
CSPG/CSEG Convention	458,398	403,706
Luncheon fees	134,121	142,518
Doodletrain	320,673	242,901
Recorder	224,190	199,375
Interest and other	44,918	55,252
	1,365,769	1,187,938
EXPENDITURES		
Administration	299,156	271,047
Distinguished lecturer	15,000	15,000
Amortization	4,531	15,278
Recorder	203,478	170,410
Interest and bank charges	1,882	1,934
Continuing education	34,081	7,097
Distinguished lecturer-SEG	20,293	20,762
Website	33,647	11,232
Doodletrain	189,646	145,346
Outreach	79,570	72,500
Member services	37,288	29,379
Luncheons	128,000	135,025
Professional fees	18,372	14,466
Professional dues	440	5,718
	1,065,384	915,194
EXCESS OF REVENUES OVER EXPENDITURES FROM OPERATIONS	300,385	272,744
OTHER EXPENDITURE		
Donation to Foundation	(580,000)	(25,000)
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES	(279,615)	247,744
NET ASSETS, BEGINNING OF YEAR	1,852,376	1,604,632
NET ASSETS, END OF YEAR	\$ 1,572,761	\$ 1,852,376

See notes to financial statements

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CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

Statement of Cash Flows Year Ended December 31, 2012

	2012	2011
OPERATING ACTIVITIES		
Excess (deficiency) of revenues over expenditures	\$ (279,615)	\$ 247,744
Item not affecting cash:		
Amortization of property, plant and equipment	4,531	15,278
	<u>(275,084)</u>	<u>263,022</u>
Changes in non-cash working capital:		
Accounts receivable	78,949	(77,328)
Accounts payable	351,659	(12,717)
Deferred income	5,943	20,402
Prepaid expenses	(53,755)	100
	<u>382,796</u>	<u>(69,543)</u>
Cash flow from operating activities	<u>107,712</u>	<u>193,479</u>
INVESTING ACTIVITY		
Purchase of property, plant and equipment	<u>(4,097)</u>	<u>(29,330)</u>
INCREASE IN CASH FLOW	103,615	164,149
Cash - beginning of year	<u>1,669,698</u>	<u>1,505,549</u>
CASH - END OF YEAR	\$ 1,773,313	\$ 1,669,698
CASH CONSISTS OF:		
Cash	\$ 898,313	\$ 794,698
Term deposits	<u>875,000</u>	<u>875,000</u>
	\$ 1,773,313	\$ 1,669,698

See notes to financial statements

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CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

Notes to Financial Statements

Year Ended December 31, 2012

3. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES *(continued)*

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.

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.

4. 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>2012</u>	<u>2011</u>
Operating fund - reserve	\$ 800,000	\$ 800,000
Convention fund	75,000	75,000
	<u>\$ 875,000</u>	<u>\$ 875,000</u>

5. FURNITURE AND EQUIPMENT

	Cost	Accumulated amortization	2012 Net book value	2011 Net book value
Furniture and fixtures	\$ 21,323	\$ (5,043)	\$ 16,280	\$ 15,504
Leasehold improvements	12,104	(2,420)	9,684	10,894
	<u>\$ 33,427</u>	<u>\$ (7,463)</u>	<u>\$ 25,964</u>	<u>\$ 26,398</u>

CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

Notes to Financial Statements

Year Ended December 31, 2012

6. 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.

7. COMMITMENTS

The Society is committed to a seven year lease commencing in 2011 that expires September 30, 2018. Annual base rental commitments are \$ 26,768. Current monthly payments are \$ 4,739.

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	2012	Rob Kendall

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)
- Mauricio Sacchi (2012)

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)

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)
- Lee Hunt (2012)

Technical Achievement

- Daniel Trad (2011)

Special Commendation

- Penny Colton (2011)
- Bill Goodway (2011)
- Larry Lines (2012)
- Tom Sneddon (2012)

Symposium Honoree

- Hampson-Russell (2013)

Corporate Members

Absolute Imaging Inc.
Aguila Exploration Consultants Ltd.
Allen Geophysical Consulting Ltd.
APL Oil & Gas Ltd.
ARC Resources Ltd.
Arcis Corporation
Bertram Drilling Corp.
Canadian Natural Resources Ltd.
Cossack Land Services Ltd.
Devon Canada Corporation
Divestco
Edge Technologies Inc.
EnCana Corporation
Enviro-Tech Surveys Ltd.
Fugro Jason Canada Inc.
Fugro Data Solutions Canada Ltd.
Fugro-Kelman Seismic Imaging
GEDCO
Halliburton-Landmark
Hampson-Russell Limited
Partnership
Husky Energy Inc.
Imperial Oil Resources
INOVA Systems Corporation
ION Geophysical
LMKR Canada Inc.
Lornel Consultants
Matrix Geoservices Ltd.
MAXAM Seismic Explosives inc.
Microseismic
Murphy Oil Canada
Newfoundland and Labrador
Government, Department of
Natural Resources
NuVista Energy
Oil Sands Imaging
OptaSense
OptiSeis Solutions Ltd.
Outsource Seismic Consultants Inc.
OYO Geo Space Canada Inc.
PennWest Energy
Perpetual Energy Inc.
PetroSys Canada Inc.
Pulse Seismic inc.
Quantec Geoscience
RPGeoServices Ltd.
RPS Boyd PetroSearch
SAExploration Inc.
SAIT
Sensor Geophysical Ltd.
Shell Canada Limited
Sigma Explorations Inc.
Suncor
Synterra Technologies Ltd.
Terrawrx
Tourmaline Oil Corp.
Western Geco Canada