

# 2009 CSEG ANNUAL REPORT



*CSEG 2009 Executive. Back Row (L-R): Kristy Manchul, Kelly Jamison, Torr Haglund, Brock Hassel, John Fernando, David Nordin. Front Row (L-R): Jennifer Leslie-Panek, Francois Aubin, Jon Downton, John Townsley. (Not in photo: Carol Laws.)*

## 2009 Executive

**Jon Downton, President**  
**John Townsley, Vice President**  
**Jennifer Leslie-Panek, Director of Educational Services**  
**John Fernando, Assistant Director of Educational Services**  
**Torr Haglund, Director of Member Services**  
**David Nordin, Assistant Director of Member Services**  
**Brock Hassell, Director of Finance**  
**Kelly Jamison, Assistant Director of Finance**  
**Carol Laws, Director of Communications**  
**Kristy Manchul, Assistant Director of Communications**  
**François Aubin, Past President**  
**Jim Racette, Managing Director**



**CSEG**  
Since 1949

Canadian Society of Exploration Geophysicists  
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# Table of Contents

## Executive Reports

President .....	2
Vice-President .....	3
Director of Educational Services .....	4
Director of Member Services .....	6
Director of Communications .....	6
Director of Finance .....	7
Managing Director .....	8

## Committee Reports

Outreach .....	9
The CSEG Foundation .....	10
Scholarship .....	10
RECORDER .....	12
Website .....	13
Doodlebug Golf Tournament .....	14
DoodleSpiel .....	15
Auditor's Report .....	16
Financial Statements .....	17

Achievements .....	23
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Corporate Members .....	Back Cover
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## President

From an economic perspective this has been a challenging year. The downturn in the oil and gas industry has impacted our members. But despite this, our society created some great events this year. A highlight for me last year was that the CSEG sponsored both new technical and social initiatives. The social event was the T-wave half day golf tournament held at the Inglewood Golf and Curling Club at the end of June. The event was such a success that we will now run it as an annual event. The Society also sponsored a microseismic workshop at Canada Olympic Park in October. Microseismic is an emerging field that might help define the role of geophysics as our industry moves towards unconventional resources. The event quickly sold out, and had delegates come from around the world. Both of these events were initiated and run by volunteers. I would like to thank the organizing committees of both of these events.

Existing social and technical programs such as the Doodlespiel, Ski Spree, Doodlebug and DoodleTrain all had good years and remain healthy. I believe the dual social / technical nature of our society and the spirit of volunteerism is what makes our society strong.

### Membership

Last year, our membership held steady at about 2200. Of special note our student membership grew significantly. I believe this is a reflection of the efforts and initiatives of our Outreach Committee and bodes well for the future. Well done!

### Convention

The joint CSEG/CSPG/CWLS convention showcased the societies well. There was an excellent technical program and interesting social events. I particularly enjoyed the luncheon with Stuart McLean, a favourite of mine. The convention is the largest revenue source for the society and our financial health is dependent on it. I would like to thank the Co-chairs Mike Jones (CSEG), Mike Cecile (CSPG) and Dave Greenwood (CWLS) and their organizing committee for their efforts in making this event a success.

### JACC: Joint Annual Convention Committee

The CSEG along with the CSPG created an organization called JACC to run our joint conventions. Throughout most of the last year we have been in negotiations with the CSPG and CWLS to bring the CWLS in as a permanent partner and address some other issues. We hope to have this amended agreement signed shortly. I would like to thank Graeme Bloy of the CSPG and Vern Mathison of the CWLS for their hard work on this matter.

### SEG

The CSEG and the SEG have maintained a good rapport over the years. We have continued to offer SEG books for sale in our CSEG office. This last year the SEG held their research workshop on CO2 sequestration geophysics in Banff. We continue to enjoy the SEG distinguished lectures, courses and honorary lectures. It was a pleasure to work alongside my old PhD supervisor, Larry Lines who was the President of SEG over much of my tenure.

### CFES

On behalf of the CSEG I attended the Canadian Federation of Earth Sciences (CFES) semi-annual meeting in Montreal. The CFES is an umbrella organization whose membership is composed of various Canadian earth science societies. The mission of the CFES is to act as a unified voice for earth science organizations in Canada and to raise awareness of the importance of earth sciences in Canadians' daily lives. The meeting is a chance to catch up and find out what other earth science organizations are doing and coordinate efforts. Of particular interest to me was the update by the "The International Year of Planet Earth" committee. They are publishing a popular book on the geology of Canada called "Four Billion Years and Counting: Canada's Geological Heritage". Further, they sponsored the "Where Challenge" focused on kids 10 – 14 years of age. The challenge was for the contestants to answer the questions "What on Earth is your stuff and WHERE on Earth does it come from?". I think this kind of outreach initiative is

important in allowing kids to draw the links between the earth sciences and their daily activities.

### APEGGA

The President of the CSEG is invited to attend the meetings of the Geoscience Committee as well as some other meetings of APEGGA. APEGGA is primarily a regulatory body while the CSEG is a technical society. As such we have some common interests but primarily focus on different goals. A number of years ago the Chief Geophysicists Forum developed guidelines for the ethical use of geophysical data. As this is an ethical and regulatory matter APEGGA has taken ownership of this document. Another area of common interest is Outreach. APEGGA worked with the CSEG to try and arrange funding for outreach initiatives for the up-coming GEOCANADA convention.

### CSEG Foundation

The CSEG Foundation's mandate is to promote the development of geophysical knowledge, education and public awareness. The Foundation is a charitable organization while the CSEG itself is a not-for-profit organization. As a charitable organization, the Foundation can issue tax receipts. This year we transferred the Outreach program to the Foundation as its goals are so similar to the Foundation. In addition to this the Foundation offers Scholarships, and runs the CSEG Distinguished Lecture program. Over the last number of years the CSEG has transferred our surpluses to the Foundation. This money can be used to either build up the corpus or run the various programs under its administration.

### Online Services

Over the last couple of years we have been trying to deliver more services over the web. This year lunch tickets may be bought and tickets printed using this service. A calendar of events with the society's functions can also be found online now.

## President (con't)

### Outgoing Executive

Lastly I would like to thank the retiring executive and staff. This past year, it has been a pleasure to work with Past President François Aubin. He is an extremely organized and thoughtful individual. I looked to him for guidance throughout the year and he gave me much sage advice.

It was been a pleasure to work with such an enthusiastic executive team this past year including Jennifer Leslie-Panek, Educational Services, Torr Haglund, Member Services, Carol Laws, Communications and Brock Hassell,

Finance. I enjoyed getting to know all these individuals and thoroughly appreciated the opportunity to work with them to achieve the goals listed above and in their individual Director's reports.

Helping out as Assistant Directors were John Fernando, Educational Services, Kristy Manchul, Communications, Kelly Jamison, Finance, Dave Nordin, Member Services. They made a big contribution to last year's executive and I know they will all contribute new ideas and energy for the coming year. Not to be forgotten from this list is incoming President (last year's Vice President) John Townsley.

John is a very warm and thoughtful individual who I know will guide the society well in the coming year.

In addition, I would like to thank our staff members: Jim Racette and Sheryl Meggeson. They are the glue that holds our organization together. This month marks Jim's tenth year anniversary with the CSEG. He was hired in a time of turbulence for our Society and has helped guide our society through highs and lows. Thanks Jim!

*Jon Downton  
President*

## Vice President

As Vice President for the past year, my major duty has been to prepare to become President in 2010-2011. To that end I have spent a lot of time with Jon Downton and Francois Aubin. Hanging around with these two fellows is a great treat from which I've gained a good understanding of the issues facing the CSEG.

Besides regular confabs with the President and Past President, the CSEG Vice President interfaces with the Chief Geophysicists Forum (CGF) and the CSEG portion of the Joint Annual Convention Committee (JACC).

Attending the quarterly breakfast meetings of the CGF gave me exposure to current issues facing our industry. The political issues discussed at the CGF meetings are broad. The seismic data issues seem to have caught my interest. These issues ranged from ownership of seismic data; Is Micro-Seismic data public like well log data?, to government

regulations affecting seismic acquisition costs; Are Heli-Seismic surveys going to require dual engine helicopters?. The CGF meetings were great and I'm happy to have had the chance to attend.

The JAC agreement outlines the terms of jointly running the conventions with the CSPG, while the JACC committee manages the convention business. Conventions are big responsibility as a typical one will have revenue of \$1.8 million and profits of \$0.8 million. I'm very grateful to all the JACC committee members, in particular Tony Cadrin, the 2009-2010 Chair, and our CSEG representatives Jeff Bectold, Andrea Hood, Laurie Ross, Rob McGory, and Atul Nautiyal. Our conventions are manned and planned out to about 2013-14 thanks to the efforts of these volunteers.

I attended the 2009 SEG convention on behalf of the CSEG. The most interesting event for me occurred before the

Icebreaker at the SEG Council meeting. There is a lot of business done in a short time at these council meetings. They are much like an AGM for a public company. At the 2009 meeting we (the 100 members of the SEG council) very quickly approved the SEG's \$15,000,000 annual budget and then we discussed a proposed bylaw change at length. It was interesting to learn about the issues facing the SEG, and think about how to bring the solutions home to the CSEG.

I'm honoured to have served the CSEG as Vice President 2009-2010 and while I am looking forward to my term as President, I am also humbled by thought.

*John Townsley  
Vice President*

## Director of Educational Services

### Luncheons

This year there were ten technical luncheons and five lunchbox talks planned by the luncheon committee consisting of *David Emery, Larry Mewhort, Marc Boulet, Brad Camroux, John Rennie, Julie Latter, Mary Lee, Robert Holt* and *John Fernando*. Since the technical luncheons have been losing money of late, the decision was made to increase ticket prices. Technical luncheon ticket price went from \$33 to \$36, as of September, to help account for the increased room and food costs. Talks before the summer were very well attended (485 people on average) however, attendance dropped off for the fall talks (294 people on average). The uncertainty in the industry seems to have affected attendance in the latter part of the year. We did offer a joint CSEG/CSPG luncheon in November and, regrettably, attendance by CSEG members was lower than in the past.

**JANUARY: Christian Abaco**, *"The Effectiveness of Seismic Fracture Detection Techniques in Tight Reservoirs – Examples from WCSB."*

**FEBRUARY: Bill Goodway**, *"Connecting Active and Passive Seismic to Describe Geomechanical Rock Properties."*

**MARCH: Ron Clowes**, *"A new view of the continent beneath our feet – LITHOPROBE's scientific, economic and social contributions."*

**APRIL: Jack Bouska**, *"Integrating Seismic Acquisition and Processing."*

**JUNE: Brian Russell**, *"Making sense of all that AVO stuff."*

**SEPTEMBER: Rob Kendall**, *"Using Timelapse Seismic to Monitor the THAI Heavy Oil Production Process."*

**OCTOBER: Satinder Chopra**, *"Interpreting fractures through 3D seismic discontinuity attributes and their volume visualization."*

**NOVEMBER: David Lumley**, *"4D Seismic Monitoring of Subsurface Fluid Flow."*

**NOVEMBER: Tom Brent, CSEG/CSPG Joint Luncheon Speaker**, *"Reflection Seismic Data from Legacy Hydrocarbon Exploration of Cenozoic and Older Basins of the Canadian High Arctic."*

**DECEMBER: Craig Beasley**, *"Lessons Learned from Simultaneous Source Investigations."*

### LunchBox Geophysics

The informal luncheon series, LunchBox Geophysics, continued under the leadership of *Julie Latter*, along with *Mary Lee* and *Robert Holt*. They coordinated 5 talks, including two special SEG/Bureau of Economic Geology (BEG) speakers, **Bob Hardage** and **Sergey Fomel** on their BEG Centennial Tour, in November and December. Kelman Technologies generously supplied the Aquitaine auditorium, the audio/visual equipment as well as the beverages for the events. Many thanks to *Brad Camroux* and *Marc Boulet* for their IT assistance.

**APRIL: Mike Hall**, *"Using Full-Wave, Full Azimuth Seismic Data to Exploit a Tight Fractured Gas Reservoir."*

**JUNE: Steven Lynch**, *"Improving the Resolution of Seismic Displays."*

**OCTOBER: Bill Goodway**, *"The Magic of Lamé."*

**NOVEMBER: Bob Hardage**, *"Expanding Seismic Stratigraphy to the Full-Elastic Wavefield."*

**DECEMBER: Sergey Fomel**, *"Predictive Painting of 3D Seismic Volumes."*

### Continuing Education

Two geophysics courses were held as part of the 2009 Annual Convention. Thanks to **Rob Ferguson**, *Wave Equation Imaging: Theory and Practice* and **Yongyi Li**, *Core Analysis for Geophysicists*, for their contributions to the technical program.

In preparation for the upcoming 2010 GeoCanada Convention, a formal Continuing Education committee was put together to coordinate the convention

courses. Thanks to the new committee, headed by *Rick Kuzmiski*, and aided by *Sarah Cutten, Bruce Atkin, John Trosh, Rod Garland* and *John Fernando*. The results of their work will be apparent in 2010.

### DISC

The SEG/EAGE Distinguished Instructor Short Course (DISC) was presented by **Patrick Corbett** from Heriot-Watt University, in April, at the Metropolitan Centre. His lecture, *Petroleum geoengineering: Integration of static and dynamic models*, was enjoyed by over 100 attendees.

### Awards

#### Best Luncheon Presentation

Making sense of all that AVO stuff.  
Brian Russell

#### 2009 Convention Awards

##### Best Oral Paper

Using Timelapse Seismic to Monitor the THAI Heavy Oil Production Process.  
Rob Kendall\*

##### Runner-Up

Applying the phase congruency algorithm to seismic data slices – A carbonate case study.  
Brian Russell\*, Dan Hampson and John Logel

##### Honourable Mentions

Efficiency and accuracy enhancement for one-way wave equation through improved mapping function in the time-shift imaging condition.  
Mark Ng\*

Converted wave receiver statics from first break mode conversions.  
Kristof De Meersman\* and Marcelo Roizman

#### Best Student Oral Paper and Best Overall Paper

Making FX interpolation more robust by spectrum-guided reconstruction.  
Mostafa Naghizadeh\* and Mauricio Sacchi

## Director of Educational Services (con't)

### **Runner-Up Student Paper**

*Geostatistics with Locally Varying Anisotropy.*

Jeff Boisvert\* and Clayton V Deutsch

### **Honourable Mention**

*Seismic Wave Attenuation due to Scattering and Leaky Mode Mechanisms in Heterogeneous Reservoirs.*

Jun-Wei Huang\*, Gilles Bellefleur and Bernd Milkereit

### **Best Geophysical Poster**

*An Azimuthal-AVO-Compliant 3D Land Seismic Processing Flow*

David Gray\*, Darren Schmidt, Nirupama Nagarajappa, Charles Ursenbach and Jon Downton

### **Honourable Mention**

*Regime Rays: Visualizing the Fermat/Snell Loci in Homogeneous Anisotropic Media*

William J. Vetter\*

### **Best Student Geophysical Poster**

*Thermal Models Across the Central Nova Scotia Slope Basin Constrained by New Marine Heat Flow Measurements*

Eric Negulic\*, Keith Louden and P.K. Mukhopadhyay

### **Honourable Mentions**

*Impedance Inversion of Blackfoot 3D Seismic Dataset*

Abdulsalam Swisi\* and Igor Morozov

*Rock Physics Models for the Seismic Velocity of Cracked Media*

Zimin Zhang\* and Robert R. Stewart

### **Outreach**

The Outreach Committee is chaired by **Annette Milbradt** who coordinates a plethora of activities to raise awareness of Geophysics in the community, at the grade school, high school and university levels as well as in the general public. Her detailed report is contained herewith. It is noted that the Outreach committee will be transferred, in whole, to the CSEG Foundation, effective January 1, 2010.

### **DoodleTrain**

CSEG's continuing education week, the DoodleTrain, was held during the week of November 2-6. The event was very successful considering the state of the industry with 261 students attending 19 courses and a keynote speaker, **David Lumley**, who travelled all the way from Australia to give an excellent talk on time-lapse seismic. Enrollment was down 31 percent over last year. Sponsorship was also down slightly, but the generosity of companies that made contributions was vital to keeping costs down and breaking even. Eight companies contributed nearly \$12,000 and 12 companies offered to donate downtown classroom space. Outside the classroom not all numbers were down – the Wednesday evening social, in which students are invited to join their peers and instructors for a beer, was fully sponsored and particularly well attended this year.

Seven new courses were added to this year's DoodleTrain curriculum and a new class of registration was added that enables graduate students and final-year undergrads to access the courses in limited numbers at reduced rates. A temporary unemployed-member discount, equivalent to the student discount, was offered to members after the early-bird registration deadline.

Thanks go to the hard-working DoodleTrain committee: *Andy Dyke, Brian Hoffe, Carlos Nieto, Chris Bird, Gabriel Solano, Jason McCrank, Joanna Cooper, John Fernando, John Logel, Maggie Jiao, Megan Jubb, Bob Whale, Sue Carr, Svetlana Bidikhova* and chairman *Bill Nickerson*.

### **Microseismic Workshop**

The CSEG sponsored a sold-out Microseismic Workshop held at Canada Olympic Park, October 13-15, 2009. The event was a success with 120 attendees

from Alberta, British Columbia, Ontario, Texas, Oklahoma, Colorado, California, the UK, Germany, and even Kuwait. The technical program boasted over 50 talks in 10 sessions covering topics from acquisition, processing, error analysis, engineering and interpretation of microseismic data. The intent of the workshop was to promote discussion and challenge preconceptions on how we should be acquiring, processing, and interpreting microseismic data by bringing together Earth Scientists from multiple disciplines (Geophysicists, Geologists, Engineers & Seismologists) across multiple industries (Oil & Gas, Mining, Geothermal, Seismology). That task appears to have been met with many of the "lively discussions" continuing formally and informally even today. *Paul Anderson* (Apache Canada Ltd.) chaired the event with his committee of *Chris Neale* (Microseismic Inc.), *David Eaton* (University of Calgary), *John Logel* (Talisman Energy), *Rob Kendall* (PetroBank), *Mike Jones* (Schlumberger), *Shawn Maxwell* (Schlumberger) and *Jennifer Leslie-Panek* (Nexen Inc.). Thanks to all the participants for making this event such a success.

It has been a pleasure serving the CSEG membership this past year and I offer a hearty thank you to all the volunteers and participants who make the programs run. This has been a difficult year in the industry and I appreciate all the hard work and dedication that has been put forth. In addition to all the volunteers, I would like to acknowledge all the companies who support the CSEG by allowing their employees to volunteer on our various committees. Without their support, there would be no organization.

*Jennifer Leslie-Panek*  
Director Educational Services

## Director of Member Services

Well, it has been a challenging year for the industry with everyone from E & P companies to those of us on the service side experiencing the twists, turns and thrills of the roller coaster we have chosen to ride called the "Oil Patch". Fortunately for members of the CSEG this ride isn't located in a warm, sunny location, but in beautiful Alberta. For it has allowed the CSEG to host some fantastic social functions over the years, that take advantage of our Provinces natural beauty and climate.

Regardless of whether the industry is up or down, these long standing social events allow an opportunity for a broad cross section of the geophysical industry to rub shoulders and experience the camaraderie that makes the CSEG unique. These events fall under the Member Services committee, but owe their success to the hard work put in by each of their respective organizing committees. The 37th annual Doodlespiel curling tournament under the guidance of Hillar Lilles went off without a hitch. The Ski Spree under the leadership of Mark Watson was held for its' 42nd consecutive year at the Fairmont Hot Springs. The grand daddy of them all, the Doodlebug, was held for the 57th consecutive year. Its success was a result of the hard work of Elvis Floreani and the rest of the Doodlebug committee.

## Director of Communications

It has been an honour to have served on the CSEG Executive for the last two years, with the Communication portfolio. The RECORDER and Website Committees are very well organized groups, which continue to be the primary communication vehicles for the members of our Society. It is a pleasure to be able to summarize the accomplishments of this hard working group over the last year.

### CSEG Website

Corey Hooge with the help of Jeremy Sherry from *Enter the Mind Media* continues to update and make significant improvements to our CSEG Website. Online membership renewal is now in place, along with the ability to both purchase and print out your CSEG luncheon tickets on line. A complete set of RECORDERS have been scanned back to September 1985, to provide us with a digital record, quickly accessible to all. The most current three months of RECORDERS

The past year, 2009, saw the resurgence of a local single day golf tournament called the T-Wave tournament held in June. The scramble was held at the Inglewood Golf Club with 112 golfers in attendance. A big thanks to Jocelyn Frankow for pushing this venture forward and we wish them many years of success.

The 5th annual Junior Geophysicists Forum was held at the International Hotel in November 2009. The 200 participants enjoyed an evening of talks and networking thanks to the efforts of Co-Chairs Nanna Eliuk, Carmen Swalwell, Doug Colvin, and their hard working committee. We look forward to the JGF occurring at the same time and venue next year.

As you can see the CSEG spends a lot of time with social events, luncheons, conventions, courses, etc. that are focused on our local members. However, what are we doing to address the "Canadian" aspect of our title? Of our 2021 members who reside in Canada, 1832 or 91% are from Alberta. After some considerable thought, the first thing the executive realized is that increasing the CSEG membership from outside Alberta is going to be a long term project. To get the ball rolling the Member Services executive has made it a point to

are available to members only, through the Member Login. The Geophysical Atlas is also available on line. A calendar of events is now up and running for a quick check of dates, which also provides links to various CSEG events.

If you haven't toured our website lately, check it out at [www.cseg.ca](http://www.cseg.ca)

### RECORDER

The RECORDER Committee led by *Chief Editor Satinder Chopra*, continues to be a first class publication, which promotes the science of geophysics, and fellowship and cooperation among our members. Committee members should be commended for their efforts to ensure a continuous supply of quality scientific articles. The RECORDER Committee has successfully expanded the size of their group from 6 to 11 members, and has implemented a succession plan. This will ensure continuity within the committee, while providing new

attend the Outreach committee monthly meetings. In addition to enjoying the delightful lunch, I've had an opportunity to see how this wonderful committee reaches out to existing and potential CSEG members across Canada. I think that this is something that the CSEG can really build on to strengthen our bond with our current members and develop relationships with future CSEG members across the country.

A big part of our task at member services is to thank the many volunteers who serve on the aforementioned committees, plus the myriad of other committees that make up the CSEG. To this end, we organized a volunteer appreciation party at Flames Central at the end of February 2009. The event went off successfully and I believe a good time was had by all. As my time on the CSEG Executive winds down I would sincerely like to thank all the other members of the executive for their diligence and hard work. I would also like to thank all the volunteers, for you are the individuals that make the CSEG the wonderful organization it is.

*Torr Haglund*  
Director of Member Services

and fresh ideas and energy to the group.

Each year, a Best RECORDER Paper is chosen by the Committee. This years *Best RECORDER Paper* is awarded to **David Henley**, for his paper – "A Convenient Truth: Radial Trace Filtering—Simple and Effective". *Honourable Mentions* were also awarded to **Shawn Maxwell** for – "Microseismic Location Uncertainty" and to **David Close, David Cho, Frederik Horn and Henry Edmundson** for – "The Sound of Sonic: A Historical Perspective and Introduction to Acoustic Logging". Congratulations and thank you to all of the authors.

In March, *Kristy Manchul* took over the role of Director of Communications for the CSEG, with *Cheran Mangat* joining the Committee as Assistant Director. I wish them all the best. I know they will enjoy working with such a great group of people.

*Carol Laws*  
Director Communications

## Director of Finance

With the AGM closing in on us, so is my two-year term watching over the societies financial affairs. Boy can I pick 'em though, the past two years has not exactly been a breeze from a financial perspective. Six months into my first year as assistant director of Finance we hit the worst worldwide downturn in six decades. Two months later the then finance director Larry Herd and I have the formidable task of formulating a budget for 2009.

Well, we did just that. Larry and I agreed that we wanted to craft a budget that reflected cautious optimism. The outlook was bleak all right, but we did not want to err to the downside to the point where our many programs and initiatives were unjustly hampered by funding. Our goal was not to come through the year with gains far surpassing our budget; it was to be as realistic and accurate as possible. How did we do? Pretty good.

While the audit has not been done at the time of writing this, our internal statements suggest that our annual dues (membership) surpassed our budget very slightly even though they were down nearly 10% from the previous three years. The encouraging thing is that our corporate dues were the highest since 2005 (although this represents only 15% of membership dues). The convention is traditionally is our largest revenue source and slightly surpassed our budget numbers. Continuing Ed/DoodleTrain contributed the largest surplus over budget this past year (thanks largely to the success of the Microseismic workshop).

Luncheons were budgeted at break-even and we showed a loss there of about

\$40,000. In September we implemented a slight increase in ticket prices and this will help some but more importantly we look to a rebound in our industry to stimulate more active attendance.

The RECORDER works very hard to balance advertising revenue with the quantity of pages in the publication while always maintaining exceptional quality of content. Anticipating a very challenging year for the RECORDER a loss was budgeted of \$35,000. The end result was closer to \$22,000.

Overall a loss was budgeted for the 2009 year of approximately \$50,000, which included a donation to the foundation of \$50,000. Our year-end revealed a gain of about \$66,000 but what this does not reveal is that amortization has not been included in recent budgets and is currently nearly \$42,000. With this taken into account we are left with \$24,000. The 2010 Budget includes amortization. Making the Foundation donation would leave us with a loss of \$26,000 (still better than budget). This brought up somewhat of a contentious issue with the executive. Do we make the Foundation donation as per budget or not?

The original donation decision was made quite early going into this financial downturn and a year later the industry has not yet shown signs that we are through it. Secondly, the new budget, which was just approved, is looking at a much greater loss for 2010 (about \$170,000). While we have reserves to help us through tough years like this we are also driven to exercise restraint.

After considerable deliberation, it was put to a vote and resolved to hold off

making the Foundation donation at this time. We sincerely hope to see the start of a rebound in 2010 that will influence our resources to the point we can resume making these donations.

As I step away from my duties as director of Finance, I want to take this opportunity to thank not only the hard working executive but also all of the volunteers that make up all of the CSEG committees. Without these people there would be no CSEG and we would all be left with a void larger than we can imagine. Please, the next time you participate in a CSEG event, take a moment to notice and thank those that made it happen. Furthermore, the paid employees of the CSEG, Jim Racette and Sheryl Meggelson work very hard as well. These two provide our society with continuity year after year that is so important when you have volunteers coming and going. Spryng Kubicek of Associations Plus and Murray Hunter our Auditor also do a great job in keeping our financial records accurate, up to date and accountable. Kelly Jameson was a very capable choice as your 2010/2011 financial director and I am confident he will go above and beyond in his efforts. My hat goes of to Jon Downton our outgoing President and the incoming John Townsley for the strong leadership you have put forth over the past year. John I wish you the best as you take the reigns and steer us into the second decade of the millennium.

*Brock Hassell  
Director of Finance*



## Managing Director

10 years. Yes it is hard to believe that I have been in my position as CSEG Managing Director 10 years, and an interesting and exciting time it has been.

Looking back to when I was offered the position in March of 2000, the CSEG was struggling somewhat financially and having difficulties controlling expenditures against lower revenues. Those were the years when the CSEG managed and administered their own convention and at that time expenditures were escalating. Change really began in 2002 when a concerted effort was placed on controlling convention spending and the result in that year alone saw convention net revenue almost triple from the previous year, and the overall net cash position of the CSEG double. 2002 was also the inaugural year of the DoodleTrain and this opened up a whole new revenue stream. For the next 7 years to follow the CSEG would see their reserves grow to a point where it could easily fund a short downturn if required, and a new Foundation, which became a reality in 2006. However this past year (2009) was a huge test for the CSEG, whereas overall revenue dropped 25%. Some of the main factors were:

- DoodleTrain revenues down 35%
- RECORDER advertising down 37%
- Convention net down 20%
- Luncheon sales down 20%

Still the CSEG managed to virtually breakeven in their operation even though a projected 50K loss was anticipated in the 2009 budget. This year (2010), the CSEG has anticipated for the first time since 2001, that it will likely be forced to dive into its reserve to keep the level of service at par with 2009. Now we will continue to be looking at ways to reduce expenditures while taking advantage of potential new revenue streams to minimize the impact. If we knew the economy was going to turn

around in 2011 or 2012, well our good planning has put us in a position to cover those lean years. However that is speculation. It is very possible that revenue streams we have been accustomed to in the past may never come back to those lofty figures or at the very least take 3-5 years to recover, and therefore we must now look at new areas of potential growth. One area is workshops. This past year a very successful Microseismic workshop was held with registration numbers surpassing expectations. So it is possible that workshops featuring new technology will become the choice of where companies might begin to send their employees for further education, and the CSEG is in a position to move in that direction. We have held successful workshops in the past and are prepared to expand on this in the upcoming years. As well our core activities like DoodleTrain and Convention must strive to meet current needs and introduce training in new technology. The industry is forever changing and the CSEG, to continue to be successful, must meet the challenges of that change.

So what do I see for the next 10 years? I firmly believe this last downturn may permanently change how the industry conducts itself in the future. Remember it wasn't necessarily an energy related crisis that brought this current economic strife upon us. This shows us that no matter what the energy situation is there are larger forces worldwide that can affect our industry. We will rebound but I am not certain it will be to levels we experienced from 2004-2008. I am also not an economist so those are merely my thoughts and I hope that they will be proven wrong. However we must be responsible and plan for a more economic challenging decade. So where will the CSEG see change? Here are some possibilities:

- I believe conventions may become more a series of expanded workshops.

- Technical Luncheons and RECORDERS may become less frequent, perhaps quarterly, though the opportunity to enhance the quality of presenters and topics may be available
- More online training and satellite workshops/courses. Linking ourselves to instructors around the world at a finger tip and reducing the overhead of hosting such events, or having people join in via video conferencing on select courses during DoodleTrain.
- Using our website more as a gateway to manage your day to day CSEG demands.

These are just a few possible ways the CSEG may turn if the economic picture does not fully rebound. At the very least we are thinking ahead and not taking a chance that things will automatically improve. As the industry and technology for delivering services change, we will need to change with it.

In closing I would like to thank the 100 or so executive members and countless volunteers I have had the pleasure to serve over the past 10 years. To the ten presidents (yes 10 bosses in 10 years), who I work have worked very close with, thank you. You each brought a different perspective to your position and that certainly has kept me on top of my game. I have learned to adapt to change every year and I think that has been very helpful in moving the society forward. Finally to the CSEG membership, I have been fortunate to have met hundreds of great, dedicated people in our membership over the years. I hope the CSEG administration has met your expectations during my tenure. Our bottom line goal is to ensure you have a strong and viable CSEG now and in the future. Your continued support will go a long way to help us meet that goal.

*Jim Racette*  
Managing Director

## Outreach

The Outreach Committee had a productive and rewarding year in 2009. Our members continue to deliver on our mandate to promote awareness and raise the profile of the science of geophysics and the CSEG. Thank you to *Jessie Arthur, Pratt Barndollor, Lori Barth, Louis Blinn, Tina Bozic, Candace Bruins, Karen Chong, Joseph Chow, Adam Flynn, Brian Gamble, Michelle Gould, Anne Halladay, Paul Hausmanis, Helen Isaac, Matt Klukas, Perry Kotkas, Stephen Kotkas, Joel Kotkas, Jessa-lyn Lagroix, Mark Lane, Jennifer Leslie-Panek, Jane Ling, Darryn Listwan, Danielle Maughan, Karin Michel, Annette Milbradt, Matt Ng, Dave Nordin, Hassan Odhwani, Bob Parker, Dan Perez, Brian Russell, Stacey Sudlow, Alex Shrake, Carmen Swalwell, Kathryn Welsh, Marissa Whittaker, Tammy Yu, and Alex Wright*, who all contributed to the ongoing success of CSEG Outreach activities. Your time and efforts are appreciated! Thank you to the companies who allowed their employees to volunteer for our many Outreach initiatives.

*Helen Isaac* coordinates **Schools Outreach** and **Public Outreach** are led by *Perry Kotkas*. Our enthusiastic volunteers attended 20 career fairs and assorted exhibitions in 2009 and talked to students and the public about geophysics. We travelled locally with our booth in the Calgary area, as well as to Vancouver, Kamloops, Kelowna, Winnipeg, Saskatoon, Regina, Canmore, and Edmonton. We present the science of geophysics with PowerPoint shows, interactive seismic displays and other demonstration materials. We can now run two fully-equipped, dynamic booths. Volunteers made **in-school presentations** in response to requests that came in. **The Kids In Science Program (KISP)** hosted 170 students in Grades 7-9 from Our Lady of Peace and Sir John Franklin Junior High Schools on the exhibit floor at the convention in May. We appreciate the support of exhibitors and volunteer guides at KISP.

In October, CSEG Outreach hosted students from three Calgary high schools at **Seismic in Motion for Students (SIMfS)**, where companies showcase their seismic acquisition technologies and procedures. We also presented information about careers in geophysics at one of the stations. Thank you to 2009 *SIMfS sponsors: ConocoPhillips, Canadian Natural Resources, Chevron, Enerplus, EnCana, Paramount Energy Trust, and Sigma Explorations*. We received positive feedback from participants in all of our Schools and Public Outreach initiatives.

**University Student Outreach (USO)** is led by *Stephen Kotkas*. Thanks to the concerted efforts by the USO subcommittee, student memberships have increased over the past two years from about 70 to almost 250. USO activities included sponsoring and attending with the CSEG Outreach booth three undergraduate conferences, presenting Best Geophysical Paper awards at two undergraduate conferences, maintaining e-mail and newsletter communications with students, making connections between students and the Scholarship committee, establishing a student area at the convention, helping to deliver Geoskills 2009 for university students and junior geophysicists, and running a one day summer student field trip in June. We would like to recognize and thank Canadian Natural Resources for their generous sponsorship of 2009 student memberships. Thanks to Boyd PetroSearch for being the 2010 sponsor. We greatly appreciate it!

*Brian Russell* leads the **Challenge Bowl** subcommittee. The energetic moderator, *Peter Duncan*, emceed the Challenge Bowl. It was an entertaining evening with a full slate of eight teams in close competition. Congratulations to the winning team of *Hossein Aghabarati* and *Fereidoon Vasheghani* from the University of Calgary. They won an expense-paid

trip to the 2009 SEG Convention to compete in the Challenge Bowl final.

CSEG Outreach members participated in the **Honorary Address (HA)** committee. The HA took place in November and honoured the 200th anniversary of the birth of Darwin, the 150th anniversary of the publication of *The Origin of Species*, and the 100th year since the discovery of the Burgess Shale in Yoho National Park. *Brian Keating*, from the Calgary Zoo, gave an exciting and dynamic presentation. He spoke about his travels and about the different ways in which animals have evolved. *Paul Johnston* from Mount Royal University presented a very interesting discussion about the Burgess Shale. The afternoon presentation to almost 1,800 junior high school students, including students brought from Canmore by the Canmore Museum and Geoscience Centre, was very well received. The evening show and silent auction were well attended by the public.

**Ambassadors** are CSEG representatives in cities across Canada and internationally. In 2009, this program included meet-and-greet opportunities for CSEG members and university students in Vancouver and Saskatoon.

Outreach members liaise with many other organizations and share outreach and education ideas and resources. Wherever we can, we also support their great geoscience initiatives.

Outreach operations have moved under the CSEG Foundation umbrella as of January 1, 2010. We appreciate the support from the CSEG Executive and the Foundation over the past year.

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

*Annette Milbradt*  
Chair

## The CSEG Foundation

The CSEG Foundation was established with a mandate to establish programs supporting education in the earth sciences, including the continuation of the CSEG scholarship program, to support continuing education of geophysicists through the development of courses and lecture tours, and to support the promotion of science of exploration geophysics in Canada to all levels of students. The chairman of the committee is *Brian Russell* and committee members include *Bill Goodway, Perry Kotkas, Dennis Melrose, Hassan Odhwani, Neil Rutherford*, and the President of CSEG, *Jon Downton*. The CSEG Foundation includes the CSEG Scholarship committee and their activity is described in a separate report. I would like to also thank *Jessica McPherson* for her three years of hard work on the Scholarship Committee, culminating with her very successful Chairing of that committee this year.

Thanks to generous donations by the CSEG executive and individual geoscientists, I am pleased to announce that at the end of 2009 our corpus has grown to \$660,000 from which we disburse approximately \$26,000 annually, in addition to our ongoing scholarship funding from generous industry donors. We fund a number of worthy projects, such as travel grants for students to attend conferences, the **SEG/CSEG Challenge Bowl** and the **CSEG Distinguished Lecture tour**. Our 2008-2009

*CSEG Distinguished Lecturer* was **Professor Ron Clowes** from the University of British Columbia, whose topic was an overview of the *Lithoprobe Project*. We thank Ron for an excellent set of lectures given to universities and geophysical groups across Canada. Our 2009-2010 *Distinguished Lecturer* is **Professor Richard Smith** from Laurentian University in Sudbury, whose topic is *Airborne Electromagnetic Methods*. Dr. Smith has completed the first part of his tour with excellent reviews.

I am also pleased to announce that the CSEG Outreach Committee, as of January 1, 2010, is now a sub-committee of the CSEG Foundation and will continue its excellent work in the area of student outreach across Canada. As was indicated in the first paragraph of this report, student outreach is one of the core areas for which the CSEG Foundation was established, so the inclusion of this committee as part of the CSEG Foundation fulfils a large part of our mandate.

Please feel free to get in touch with any of our board members for more information.

*Brian Russell*  
Chair

## Scholarship

The CSEG scholarship committee began its fundraising efforts for 1010 scholarship in February 2009. Due to the economic conditions at the beginning of they year, we were concerned about the level of funding we would receive. We are happy to report that many of our long term sponsors continued their support and several companies contributed for the first time. The CSEG scholarship committee received funding from 27 Calgary based oil and gas companies, service companies, and individuals to grant scholarships in the amount of \$2000 to 20 students from universities across Canada. Compared to the 23 scholarships that were granted in 2008, this is only a slight decrease and we were very pleased with the amount of funding. The scholarship committee would like to sincerely thank all of the

sponsors for their continued support in helping geophysics students across Canada realize their academic goals during these difficult economic times

The number of applications received from students across Canada doubled in 2009 due to partnering with the CSEG University Student Outreach committee. The USO committee advertised through numerous outlets on our behalf including:

- CUPC – Canadian Undergrad Physics Conference
- WIUGC – Western Interuniversity Geoscience Conference
- AUGC – Atlantic University Geoscience Conference

- GeoSkills Day
- CSEG Student Field Trip
- C3Geo Convention
- USO quarterly newsletter

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

## Scholarship (con't)

### 2009 CSEG Scholarship Winners and Donors

Recipient	University	Donor
Raminder Singh Sharma	University of British Columbia	Sigma Exploration Inc. / Apoterra Seismic Processing Ltd.
Dunia Blanco	University of Alberta	Arcis Corporation
Francis Joseph Ryan	Memorial University	Boyd PertoSearch
Fennifer Fohring	University of British Columbia	Canadian Natural Resources Inc.
Sean Contenti	University of Alberta	Devon Canada Corporation
Abdolnaser Yousefzadeh	University of Calgary	Enerplus Resource Fund
Farshid Forouhideh	University of Calgary	EOG Resources Canada Ltd.
Joel Kotkas	University of Calgary	GEDCO / John Pierce
Akshay Gulati	University of Calgary	Hampson-Russell Software Services Ltd.
John Mosquera	University of Waterloo	Matrix GeoServices Ltd.
Wesley Kasha	University of Alberta	Nexen Inc.
Bree Rees	University of Regina	PennWest Energy Trust
Cameron Toy	University of Waterloo	Pulse Data
Christopher Thompson	University of Calgary	Talisman Energy
Danielle Anne Mountjoy	University of Victoria	Zokero Inc.
Ismael Ver-Rodriguez	University of Alberta	Bob Won Trust Fund
Lisa Fodor	University of Victoria	Ted Popilchak Trust Fund
Zabihullah Wajahat Werdeg	University of Calgary	Chris Elms Trust Fund
Bradley Ohler	University of Alberta	Pengrowth Energy Trust / Seisland Survey Ltd. / CSEG Foundation
Aaron DesRoches	University of New Brunswick	Anonymous Donor / Dr. Larry Lines / CSEG Foundation

### 2009 Scholarship Donors

Anonymous Donor	\$1000
Apoterra	\$1000
Arcis Corporation	\$2000
Boyd Petrosearch	\$2000
Canadian Natural Resources Ltd.	\$2000
Devon Canada	\$2000
Enerplus Energy Services Ltd.	\$2000
EOG Canada	\$2000
GEDCO	\$1000
Hampson – Russell	\$2000
John Pierce	\$1000
Larry Lines	\$500
Matrix Geoservices Ltd.	\$2000
Nexen Inc.	\$2000
Pengrowth Energy Trust	\$500
Penn West Energy Trust	\$2000
Pulse Data	\$2000
Seisland Surveys	\$250
Sigma Explorations Inc	\$1000
Talisman Energy Inc.	\$2000
Zokero Inc.	\$2000
<b>Total</b>	<b>\$32,250</b>

Contributions from the *Chris Elms Trust Fund*, *Ted Popilchak Trust Fund*, *Bob Won Memorial Trust Fund*, and the *CSEG Foundation* brought the total to **\$40,000**.

*Jessica McPherson*  
Chair, CSEG Scholarship Committee

### 2009 CSEG Scholarship Committee

*Jessica McPherson*, Cenovus Energy Inc.  
Chairman

*Dennis Melrose*, Nexen Inc.  
Senior Trustee

*Hassain Odhwani*, Divestco Processing  
Junior Trustee

### 2010 CSEG Scholarship Committee

*Dennis Melrose*, Nexen Inc.  
Chairman

*Hassan Odhwani*, Divestco Processing  
Senior Trustee

*Matthew Klukas*, Talisman Energy  
Junior Trustee

## RECORDER

The ongoing economic slowdown has reduced the amount of advertising revenue that the RECORDER relies on, mainly from geophysical service companies operating in Calgary, and this has affected its operations. Following a CSEG directive, the RECORDER Committee has had to ensure that its expenditures do not greatly exceed its revenues, while still maintaining its technical standards. This prompted a limit on the number of pages per issue and hence a restriction on the number of technical/semi-

technical articles. Thirty five technical articles and twenty-six semi-technical or articles of a general nature were published in the ten issues of the RECORDER in 2009. The ten issues focused on specific themes given below.

- Seismic data processing
- Geophysics and climate change
- Seismic modeling
- Well logging tools/microseismic
- Hydrothermal reservoir characterization

- Time and depth migration
- Marine geophysics
- Seismic data acquisition
- Recent advances in seismic data processing
- Challenge of multiples

Invariably, each issue of the RECORDER carried an interview. As per the feedback from the members it turns out that the interviews continue to be a popular column. The following ten eminent geoscientists were interviewed during 2009.

Gary Margrave



Jason McCrank



Maria Quijada



Satinder Chopra



Dan Hampson and Brian Russell



Scott MacKay



Ron Clowes



David Eaton



Mauricio Sacchi



Stephen Beatty



Bob Hardage

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

In 2008, the RECORDER Committee was expanded so as to bring on more members who could work on the publication and come up with new ideas for improving technical content, and thus allow the RECORDER to continue to serve the CSEG membership as a prime communication medium.

Satinder Chopra (Arcis Corporation) remains the Chief Editor, while Penny Colton (Exploratech), Marian Hanna (GXT/ION), and Gary Margrave (U of C) continued to volunteer

their able services as Associate Editors. Jason Noble stepped down during 2009 after many years of help with editing and soliciting of articles. We thank Jason for his valuable contribution. We would like to thank Oliver Kuhn, former Technical Editor for the RECORDER and CSEG Past-President, for editing most of the interviews, and contributing the semi-regular 'Science Break' articles. Paul Anderson (Apache), Joanna Cooper (U of C), and Jonathan Howlett (WesternGeco) continued in their roles as Assistant Editors. John Logel (Talisman) had to step down from the Committee as he got transferred to Norway.

Kurt Wikel (Talisman) and Eric Anderson (Talisman) have joined the RECORDER Committee as Assistant Editors and are already making their presence felt. Carmen Swalwell (Swalwell Consulting) continues to serve in her role as a Regular Contributor for the Tracing the Industry column and Lorna Engleson as a Regular Contributor for the Grapevine column. Jim Racette and Sheryl Meggeson are always available for liaison and help, apart from their organization of advertising material and related things.

The PRINTMAN, Calgary continues to provide graphic design, production, and printing services for the RECORDER, and

## RECORDER (con't)

has been found to be satisfactory in terms of quality and efficiency.

The RECORDER production expenses during 2009 were more than the advertising revenue. Whereas the RECORDER generated some \$30K in net revenue during 2008, it has lost close to \$20K in 2009. Going forward, we anticipate that with the restrictions we have imposed on the number of pages in

each issue, we should be able to function in accordance with the directive of the CSEG Executive – that each arm of the CSEG should function as a cost-effective/profit making entity.

All issues of the RECORDER published in 2009 are available on the CSEG website ([www.cseg.ca](http://www.cseg.ca)).

We have continued in our attempts to enhance, or at least maintain, the quality

of the RECORDER through these difficult times; we count on the membership to cooperate and help as they have done in the past. As our industry limps back to normal during 2010, we hope that we can return to a situation where we can once again offer the previous number of articles per issue.

*Satinder Chopra  
Chair*

## Website

While 2008 being a significant year for the website, 2009 was fairly quiet, with on-going maintenance and improvements continuing.

The on-line membership system has now been up and running for slightly more than a year and the system has stabilized and has been running smoothly for much of that time. Ticket printing was implemented and is available for any members who purchase their luncheon tickets on-line. Also, recent RECORDER articles are now available on-line at the same time as the printed version, but the previous three months are only available to members with on-line access. Further improvements will be initiated as time permits.

An on-going project that was begun early in 2008 was the clean-up and expansion of the RECORDER archives. During the past year, the RECORDER archives have been expanded out to Sept 1985, the first version of the RECORDER in a magazine format. While the hope will be to expand the archives to the earliest dates in order to have the entire catalog of RECORDER articles digitally archived, this will not be a high priority.

Another project that has been initiated is the improvement of the CJEG (Canadian Journal of Exploration Geophysics) archives. The current version of the scans are not of acceptable quality and will need to be redone. If anyone has old copies of the Journal and no longer requires them, they can donate them to the Society for use in scanning. Please contact the office.

We have also created a on-line Calendar for relevant society and external events. This is an on-going project and keeping the Calendar up to date remains a significant undertaking.

On-going efforts with ensuring up to date content in all areas continues. Additionally, expansion of content to provide new information relevant to the membership is also continuing.

We encourage the members to provide us with feed back so that we can continue to make the website the primary destination for society information.

*Corey Hodge  
Chair*



## Doodlebug Golf Tournament

This year's Doodlebug Golf Tournament was once again held in beautiful Jasper, Alberta. Despite being in an industry that is going through lean times, this year's Doodlebug endured and thrived. It was a smaller event this year but just as many of the previous Doodlebugs, it was a fun filled event with great weather, good laughs and a strong sense of industry camaraderie.

It is hard enough to try to raise money in good times let alone in tough times. In spite of these difficult conditions, the sponsorship team of Danielle Harrison and Mark Watson did an outstanding job securing 48 sponsors. Some of which were first time sponsors, including 7 E & P companies, which is a first for the Doodlebug and bodes well for future Doodlebugs.

Registration numbers, as expected, were down from last year but still respectable considering the economic environment that we are in. Many thanks to Jason Nelson and Clayton Thatcher for all their hard work and perseverance to ensure we had enough registrants to make this year's Doodlebug a viable event.

A major component of the Doodlebug is the golf and it is always special to play at the Jasper Park Lodge Golf Club with all of its beauty and challenges. As always the golf committee worked very hard throughout the event to ensure we all had an enjoyable golf experience. Many thanks to Evan Perry, Don MacNeil and Chris Heaver for all their hard work, due diligence and commitment to detail.

This year we had eight flights and as expected there were many hard fought battles. Alan Starkoski was able to defend his title as Mr. Doodlebug. Congratulations to Alan and all the flight winners as you will have bragging rights until next summer. The Chuckwagon team event was won by Don Heide, Brian Betram, Alan Chatenay and Kerry Befus despite their golfing.

The Spouse / Guest events which included a 9 hole golf game, a Titanium Chef cooking class and a delicious brunch were well attended and I would like to extend a special thank you to Janine Ballingall, Sally Befus and Laurel Lee Floreani for making sure that the registrant's guests were well taken care of and enjoyed their stay in Jasper.

The entertainment committee once again did a masterful job at planning the evening

events. The social events are another major component of the Doodlebug and this year the bar was raised even higher with great food and beverage choices, especially the Saturday night martinis which were enjoyed by many. The Saturday night casino event was a great success with everyone staying till the end trying to win as many Doodlebucks as possible to use at the live auction. Congratulations are in order for Karen Webster and Bryan Tutty for putting on a great show and thanks for taking care of the many details that go in making this happen. A thank you is also in order to Darren Gourlay and the entire JPL staff, who once again did an amazing job in working with the entertainment committee.

Thank you to Becky Cook for her role as secretary and working with West Canadian on all the print materials that were needed and Kerry Befus for keeping a close eye on the finances and helping me to keep a somewhat balanced budget.

And finally thanks to Marty Sommerville and some of the other past chairman for their sage advise and of course a special thank you to my Vice Chairman Andrew Lane who was a tremendous help and was my go to guy for helping me solve many of the issues that always seemed to come up.

Although the Doodlebug Golf Tournament is not organized as a charity event the committee does endeavor to collect money each year to donate to a worthy cause. Through the generosity of the participants and the sponsors I am pleased to report that we raised \$9,430 for this year's charity, the Alberta Children's Hospital. Furthermore, the ACH has been selected as the designated community charity for the CN Miracle Match program, so CN will be matching our donation which means double the impact.

To all our sponsors, without your continued support this tournament and premiere social event could not exist especially through these tough times, to the Jasper Park Lodge and their wonderful staff for providing first class accommodations, golfing and social events and finally to all of you, who came out, participated and had fun – thank you!

This definitely was a trying year for the Doodlebug but I strongly believe there is still value in this event and that the recent dwindling numbers are not because of a

lack of interest but because of a changing of the guard. The older Doodlebugger's who have committed many years to the Doodlebug are retiring and now its time for the younger generation to take over. We definitely have to think a bit differently on how we approach this tournament and can't rely solely on 57 years of tradition. There are a number of initiatives started this year that we think will help to build this event back up, one being the involvement of more E&P companies on the sponsorship side and the introduction of younger Geophysicists to the Doodlebug – of course \$100 oil and \$12 gas wouldn't hurt either.

Word of mouth is always the best advertising, so if you had a good time at this year's Doodlebug, please tell people and if you did not please tell one of the committee members so we can try to make things better in the future.

The 58th annual Doodlebug Golf Tournament will be held once again in Jasper, August 19th-21st 2010, so best of luck to Andrew Lane and his committee and hope to see all of you next year.

For more information on the Doodlebug visit [www.doodlebuggolf.com](http://www.doodlebuggolf.com)

*Elvis Floreani*  
2009 Doodlebug Chairman

### 2009 Doodlebug Committee

Chairman.....	Elvis Floreani
Vice Chairman.....	Andrew Lane
Past Chairman.....	Marty Sommerville
Secretary / Treasurer .....	Becky Cook
.....	Kerry Befus
Housing / Registration.....	Jason Nelson
.....	Clayton Thatcher
Prizes / Sponsorship .....	Danielle Harrison
.....	Mark Watson
Golf .....	Evan Perry
.....	Don MacNeil
.....	Chris Heaver
Entertainment .....	Karen Webster
.....	Bryan Tutty
Guest Tournament.....	Janine Ballingall
.....	Sally Befus
Ladies Convenor.....	Laurel Lee Floreani

## Doodlespiel

### 2009 CSEG Doodlespiel Results

Many thanks to all those who participated in the 2009 CSEG Doodlespiel held in Banff and Canmore January 30 to February 1, 2009. In total we had over 400 members participate with 64 teams in the main event and 24 teams in the holeplug division. After three grueling days of non-stop curling the results were as follows:

#### A EVENT

Alan Richard led his team of seasoned veterans to a final match victory over the Sterling Hansen team in a dramatic, down to the wire, last match. Third place was shared by the Robert Pike team and the Garry Kelman team.



A EVENT WINNERS: from left Don Anderson, Barry Johnson, Alan Richards, Eugene Peters.

#### B EVENT

The Rob Langill team took first in the B defeating the Dave Timko team in a riveting final game. Third was shared by the teams skipped by Dale Johnson and Brad McDonald.

#### C EVENT

The James Wenzel team gave a good fight but eventually fell to the Bob Bleaney team who took first place in the C. The third place runners up were the Kevin Mullie team and the Sandy Jenkins team.

#### D EVENT

The Andy Williamson team bested the Chris Barton team taking first in the D. Third went to team Trevor Meier and team Rey Javier.

#### HOLEPLUG EVENT

The returning champs led by Kim Hedin defeated team Rob Doroshenko to win the Holeplug for the second year in a row. Third place went to the Jared Atkinson team.

Congratulations to all of the event winners! Complete player rosters for the winning teams are available on the Doodlespiel website at [www.doodlespiel.com](http://www.doodlespiel.com)

We would also like to extend our sincere thanks to all of our generous sponsors who are essential to making this event such a success. Sponsorship support makes up a significant portion of the Doodlespiel's annual operating budget and it allows us to keep entry fees as low as they are. To view this year's sponsors please visit the Doodlespiel website.

The Doodlespiel event for 2010 was held Jan 22, 23 and 24 in Lethbridge, since the Banff Curling Club was torn down and is presently being rebuilt. Details of the 2010 event will be published in the RECORDER soon.

Thanks to all of the hard work put in by the committee members below.

*Sincerely,  
Armin*

*2009 CSEG Doodlespiel Chairman*

#### 2009 CSEG Doodlespiel Committee

*Armin Schafer, Chairman  
Morgan Steeves, Past Chairman  
Hillar Lilles, Vice-Chairman  
Cam Moore, Finance  
Victor Irwin, Sponsorship  
Dave Swagar, Sponsorship  
John Bertsch, Housing and Special Arrangements  
Roger Edgecombe, Housing and Special Arrangements*





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## AUDITOR'S REPORT

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To the Shareholders of Canadian Society of Exploration Geophysicists

I have audited the balance sheet of Canadian Society of Exploration Geophysicists as at December 31, 2009 and the statements of operations and changes in net assets and cash flows for the year then ended. These financial statements are the responsibility of the company's management. My responsibility is to express an opinion on these financial statements based on my audit.

Except as explained in the following paragraph, I conducted my audit in accordance with Canadian generally accepted auditing standards. Those standards require that I plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In common with many charitable organizations, the Society derives revenue from membership dues, sponsoships, advertising and projects, the completeness of which is not suseptible to satisfactory audit verification. Accordingly, my verification of these revenues was limited to the amounts recorded in the records of the Society and I was not able to determine whether any adjustments might be necessary to revenues, excess of revenues over expenditures, current assets and net assets.

In my opinion, except for the effect of adjustments, if any, which I might have determined to be necessary had I been able to satisfy myself concerning the completeness of the contributions referred to in the previous paragraph, these financial statements present fairly, in all material respects, the financial position of the company as at December 31, 2009 and the results of its operations and its cash flows for the year then ended in accordance with Canadian generally accepted accounting principles.

Calgary, Alberta  
March 4, 2010

A handwritten signature in black ink that reads "Murray Hunter".

CHARTERED ACCOUNTANT

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



# Financial Statements

## CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

### Balance Sheet

December 31, 2009

	2009	2008
<b>ASSETS</b>		
<b>CURRENT</b>		
Cash	\$ 637,650	\$ 693,366
Accounts receivable	85,972	72,740
Prepaid expenses	72,000	13,334
	<u>795,622</u>	779,440
FURNITURE AND EQUIPMENT (Note 4)	46,383	87,953
RESTRICTED FUNDS	875,000	875,000
	<u>\$ 1,717,005</u>	<u>\$ 1,742,393</u>
<b>LIABILITIES</b>		
<b>CURRENT</b>		
Accounts payable	\$ 59,754	\$ 116,940
Deferred income	20,671	10,669
	<u>80,425</u>	127,609
<b>NET ASSETS</b>		
Capital assets	46,383	87,953
Internally restricted	875,000	875,000
Unrestricted	715,197	651,831
	<u>1,636,580</u>	1,614,784
	<u>\$ 1,717,005</u>	<u>\$ 1,742,393</u>

#### ON BEHALF OF THE BOARD

\_\_\_\_\_  
Director

\_\_\_\_\_  
Director

See notes to financial statements

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## CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

### Statement of Operations and Changes in Net Assets

Year Ended December 31, 2009

	2009	2008
<b>REVENUE</b>		
Memberships	\$ 108,932	\$ 114,036
Continuing education	65,310	44,461
Recorder	152,920	215,993
Outreach	5,497	26,500
CSPG/CSEG Convention	287,613	374,084
Doodletrain	185,523	262,838
Distinguished lecturers	14,900	15,795
Luncheon fees	121,886	148,807
Interest and other	49,139	52,286
	<u>991,720</u>	<u>1,254,800</u>
<b>EXPENDITURES</b>		
Administration	273,139	317,583
Distinguished lecturer	15,000	15,000
Amortization	41,569	41,569
Recorder	172,532	185,497
Interest and bank charges	2,600	3,123
Member services	20,039	26,468
Outreach	66,566	66,730
Doodletrain	148,108	171,758
Website	12,099	14,132
Continuing education	45,204	24,207
Luncheons	141,033	145,149
Distinguished lecturer-SEG	13,385	13,937
Convention	6,250	7,762
Professional fees	12,400	13,709
	<u>969,924</u>	<u>1,046,624</u>
<b>INCOME FROM OPERATIONS</b>	<b>21,796</b>	<b>208,176</b>
Donation to CSEG Foundation	-	(200,000)
<b>EXCESS OF REVENUE OVER EXPENDITURES</b>	<b>21,796</b>	<b>8,176</b>
<b>NET ASSETS- BEGINNING OF YEAR</b>	<b>1,614,784</b>	<b>1,606,608</b>
<b>NET ASSETS - END OF YEAR</b>	<b>\$ 1,636,580</b>	<b>\$ 1,614,784</b>

See notes to financial statements

3

## CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

### Statement of Cash Flows

Year Ended December 31, 2009

	2009	2008
<b>OPERATING ACTIVITIES</b>		
Net income	\$ 21,796	\$ 8,176
Item not affecting cash:		
Amortization of property, plant and equipment	41,569	41,569
	<u>63,365</u>	<u>49,745</u>
Changes in non-cash working capital:		
Accounts receivable	(13,231)	(31,870)
Accounts payable	(57,186)	26,231
Deferred income	10,002	(4,297)
Prepaid expenses	(58,666)	843
	<u>(119,081)</u>	<u>(9,093)</u>
Cash flow from (used by) operating activities	<u>(55,716)</u>	<u>40,652</u>
<b>INVESTING ACTIVITY</b>		
Purchase of property, plant and equipment	-	(19,509)
<b>INCREASE (DECREASE) IN CASH FLOW</b>	<b>(55,716)</b>	<b>21,143</b>
Cash - beginning of year	<u>1,568,366</u>	<u>1,547,223</u>
<b>CASH - END OF YEAR</b>	<b>\$ 1,512,650</b>	<b>\$ 1,568,366</b>
<b>CASH CONSISTS OF:</b>		
Cash	\$ 637,650	\$ 663,366
Term deposits	<u>875,000</u>	<u>875,000</u>
	<b>\$ 1,512,650</b>	<b>\$ 1,538,366</b>

See notes to financial statements

4

## CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

### Notes to Financial Statements

Year Ended December 31, 2009

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

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

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

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#### 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

##### Revenue recognition

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

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

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

##### Capital assets

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

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

##### Contributed services

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

##### Social committees

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

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

##### Income taxes

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

*(continues)*

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## CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

### Notes to Financial Statements

Year Ended December 31, 2009

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

##### Measurement uncertainty

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

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

The Society's Executive Committee has internally restricted resources amounting to \$ 875,000 (2008 - \$ 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>2009</u>	<u>2008</u>
Operating fund - reserve	\$ 800,000	\$ 800,000
Convention fund	75,000	75,000
	<u>\$ 875,000</u>	<u>\$ 875,000</u>

#### 4. FURNITURE AND EQUIPMENT

	Cost	Accumulated amortization	2009 Net book value	2008 Net book value
Furniture and fixtures	\$ 94,344	\$ 90,083	\$ 4,261	\$ 16,055
Leasehold improvements	92,568	61,710	30,858	49,371
Software Development	33,790	22,526	11,264	22,527
	<u>\$ 220,702</u>	<u>\$ 174,319</u>	<u>\$ 46,383</u>	<u>\$ 87,953</u>

#### 5. FINANCIAL INSTRUMENTS

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

## CANADIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

### Notes to Financial Statements

Year Ended December 31, 2009

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#### 6. COMMITMENTS

The Society is committed to a five year lease commencing July 1, 2006. Annual payments are \$25,083.60 payable in equal monthly installments of \$ 2,090.30.

Contractual obligation repayment schedule:

2010	\$	25,084
2011		12,442

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## Past Presidents

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

## 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)



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

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

## Corporate Members

Absolute Imaging Inc.  
Aguila Exploration Consultants Ltd.  
APL Oil & Gas Ltd.  
Apoterra Seismic Processing Ltd.  
ARAM Systems Ltd.  
Arcis Corporation  
Bertram Drilling Corp.  
Boyd PetroSearch  
Canadian Natural Resources Ltd.  
Divestco Inc.  
Explosives Partnership  
Edge Technologies Inc.  
Ember Resources  
Fugro Data Solutions Canada Ltd.  
GEDCO  
Geomodeling Technology Corp  
Halliburton  
Hampson Russell Limited Partnership  
Husky Oil Operations Limited  
Imperial Oil Resources  
Ion Geophysical  
Lornel Consultants  
Matrix Geoservices Ltd.  
MAXAM Seismic Explosives inc.  
Murphy Oil Company Ltd.  
Newfoundland and Labrador Government,  
Department of Natural Resources  
NuVista Energy  
Olympic Seismic Ltd.  
Outsource Seismic Consultants Inc.  
OYO Geo Space Canada Inc.  
Paramount Energy Trust  
Petro Canada  
RPGeoServices Ltd.  
Seismic Micro-Technology (SMT)  
Sensor Geophysical Ltd.  
Shell Canada Limited  
Sigma Explorations Inc.  
Silvertip Exploration Services  
Suncor Energy Ltd.  
Synterra Technologies Ltd.  
Talisman Energy Inc.  
Terrawrx  
Thompson & Associates Exploration Services Inc.  
Z-Seis Canada Ltd.