

CSEG Foundation Overview

The CSEG Foundation is a *registered Canadian organization* – the charitable operating arm of the Canadian Society of Exploration Geophysicists. It was initiated in 2003-04 as the brainchild of several CSEG Past Presidents and received charitable status in 2006. It is managed by an independent Board of Directors, is closely aligned with the CSEG and is ultimately *controlled by* the CSEG. The **Mission** of the CSEGF is: *to encourage and support scientific, educational and charitable activities that benefit geophysicists through the solicitation of contributions aimed at promoting the development of geophysical knowledge, education and public awareness.*

When the Foundation attends public events, career fairs, conferences for university students, high school science teachers and career counsellors, we strive to make the public more aware of geophysicists' contribution to the well-being of Canadian society. We convey to educators, students and the public our key role in not only the petroleum and mining industries but also in environmental engineering and the mapping of natural hazards. The scientists and support persons in the CSEG are ethical and conscientious stewards of the environment. They help to find and develop the resources essential to our daily lives.

The Foundation is a volunteer-run organization with only a small staffing overhead. Funding to support the Foundation's activities comes from generous donations from the public, members, corporate sponsors and the CSEG itself. Thanks to all who have contributed to this year's success through either your volunteer time or your financial support.

This year's highlights

- This year, the CSEGF Board of Directors was expanded from eleven to thirteen Directors. The major operating Committees - **Outreach, Travel Grants and Learning Subsidies** and **Scholarships** now each have a Director to more closely link the activities of that committee to the Board.

2014/15 CSEG Foundation Board of Directors, committee chairs and support staff

Larry Herd (Chair)

Perry Kotkas (Past Chair & Secretary)

Annette Milbradt (Treasurer and Director of Finance)

Mike Clement (Asst. Treasurer)

Ron Larson (CSEG Rep and CSEG Past-President)

Dennis Ellison and **Karen Chong** (Outreach Co-chairs)

Andreas Cordsen (Fund Development Co-chair)

John Boyd (Fund Development Co-chair)

Marc Boulet (Scholarships Chair)

David Bonar (Chair, Travel Grants and Learning Subsidies, TGLS)

Helen Isaac (Communications)

Mauricio Sacchi (Director-at-Large)

Jennifer Leslie-Panek (Director-at-Large)

Satinder Chopra (CDL Chair)

Jim Racette (CSEG Managing Director)

Alyssa Middleton (CSEG staff)

- For the 2015 budget year, the Foundation Board elected to reallocate \$12,000 of the annual operating funds to specifically support programs for unemployed members.
- Outreach/University Student Outreach continued to wave the CSEG flag and help students in universities and high schools, as well as the public at large, gain information about geophysics and the CSEG. Outreach is the Foundation's largest group and accounted for half of our operating budget.
- Foundation assets grew to nearly \$2M thanks to the generous donations of our members and corporate supporters.
- We continue to support post-secondary education and students. Out of 66 applications for scholarships, the Foundation awarded 16 scholarships to students at eight different universities across Canada, two scholarships at two different technical institutes and one university entrance scholarship to a high school graduate from a CSEG family.
- The Foundation provided travel grants and learning subsidies to help Canadian undergraduate and post graduate students take courses and attend conferences, seminars and geoscience field trips. In 2014, \$23,500 was spent on this program, providing support to 138 individuals at university conferences such as the Atlantic Universities Geosciences Conference, Advances in Earth Sciences Research Conference and Western Inter-University Geosciences Conference.
- The sixth year of our mentoring program matched each of 60 students with a CSEG mentor, helping the student through university and to make the transition from university to career.
- Our CSEG Distinguished Lecture Tour reached over 20 Canadian institutions in 2014. Last year, Bernd Milkereit's tour included some 22 institutions, including a rare visit to the China University of Petroleum. Our 2014/2015 Distinguished Lecturer is Dr. Peter Cary who has 27 stops at various Universities from Victoria BC to Anchorage AK to Houston TX to St. John's, NF. By connecting with our Ambassadors and University Student Outreach Programs, we continued to host receptions at a number of lectures and providing information on CSEG membership to students and CSEG members across Canada.
- The Geophysical Industry Field Trip (GIFT) took 41 students from eight different universities to various host companies, where they learned more about operations, processing, interpretation and other elements of applied geophysics.
- Our annual Earth Science for Society (ESfS) event – partnered with APEGA, CSPG and CWLS - hosted over 600 people at our Sunday public opening and over 1,300 junior high school students from 11 schools visited in the next two days.
- Seismic in Motion for Students, run jointly with the CAGC, took almost 200 high school students to the Waiparous area to spend a day seeing all of the aspects of seismic field operations and learn how we minimize environmental impact.

The CSEG Foundation is a large, dynamic organization, driven by a large number of very dedicated volunteers and their respective sub-committee chairs and leaders. Your support and the support of the CSEG Executive has grown these achievements and will continue to allow the CSEG Foundation to promote our society to the public. Consider working with us as we support students and members across Canada, and engage the public in becoming more aware of the far reaching impact and influence of the science of geophysics and the CSEG.

Larry Herd, CSEG Foundation Chair

Finance Committee Report

Annette Milbradt – Treasurer and Director

Mike Clement – Asst. Treasurer and Director

The CSEG Foundation's finances, and financial policies and processes are healthy and robust. Our assets are growing and invested according to the Q4 2014 plan developed by Mike Clement, Assistant Treasurer. The Investment Policy, approved by the Board in 2014, guided the Foundation's investment choices. The Investment Policy sets out financial objectives and guidelines for risk, targets, and investment mix that best protect the Foundation's funds.

Long Term Foundation Investment Objectives:

- To build the Endowment Fund to a level that CSEG Foundation activities can be substantially self-sustaining. That will allow the Foundation to apply long term planning for its programs without having to worry about adjusting funding levels for programs due to fluctuating CSEG revenues.
- In order to provide further guidance for investment management, the stated Annual Target Yield of the investment portfolio is 2% above the previous year's published Federal inflationary rate.

Short Term Foundation Investment Objectives:

- To directly fund administrative costs and some Foundation programs through funds generated from investments of Endowment funds.
- To be able to compensate for short term fluctuations in the CSEG's ability to fund long term programs through use of funds from the Endowment if necessary.

Pending final audit, the Foundation's total assets at year end are sitting at just over \$2,000,000. As of December 31, the CSEG Foundation has long term funds distributed over 10 GICs and a managed fund at the Calgary Foundation. The value of the Calgary Foundation managed fund at December 31 2014 is \$618,649.28, a great return on investment from our initial capital contribution in of \$500,000 in March 2013.

At the time of this report, projections for the 2014 are: Total budgeted revenue of \$193,823.19, total budgeted expenses of \$206,688.80, total net unbudgeted revenue of \$62,089.99, resulting in net revenue of \$49,224.38.

The CSEG Foundation Board has approved a break-even budget for 2015 and it has been forwarded for final approval by the CSEG Executive. Due to the current state of the economy, overall budget levels are maintained or slightly reduced with reallocation of \$12,000 for programs to support education and re-training of our members. The CSEG Foundation will continue to exercise fiscal prudence during this economic downturn.

I would like to acknowledge and thank Mike Clement, the incoming Assistant Treasurer, for his invaluable contributions since coming on board in July, Jim Racette for his help and support in the CSEG office, as well as Spryng Kubicek, our accountant at Associations Plus, and Murray Hunter, our auditor, for their work and their guidance.

Communications Report

Helen Isaac, Chair and Director

The Foundation pages on the CSEG website were updated so that the Foundation has a greater presence and its programs are easily found on the drop-down menu. A flash banner on each page shows testimonials from grateful recipients of travel grants and scholarships. Regular information updates are made to individual programs, especially those pertaining to students, such as GIFT, the Challenge Bowl, Travel Grants and Scholarships.

This year the Foundation introduced an annual article in The Recorder that informs the CSEG membership about our fundraising efforts and acknowledges our generous donors.

Fund Development Committee Report

John Boyd, Co-Chair and Director

Andreas Cordsen, Co-Chair and Director

On behalf of all of the Board of Directors, and students and others: your generous donations have helped to maintain and even grow the Foundation's programs... thank you!

The CSEG Foundation assets are \$1.986 Million and of that, the Endowment has reached \$1.501 Million. This year, we received \$276,000 from previous pledges and new donations, plus \$44,000 in sponsorships for programs. Most of the donations were from individuals, some from corporations. We are still actively seeking both corporate and individual support and we have started a campaign to ramp up donations from the corporate sector. We have had many donors contribute annually and we are tracking cumulative donations so that the total amount will be recognized.

We have made use of the Recorder to list and thank donors. All donors received a thank-you letter and a report of the year's activities was mailed to each of them. We had planned a donors' coffee and dessert reception for the last afternoon of GeoConvention but it did not fit in with an already busy convention program and have reallocated funds to support programs for unemployed CSEG members. We will, however, list donors on a display board at the CSEG booth.

We are currently investigating Planned Giving, used by many organizations to encourage gifts from the estates of members. Derek Fraser, our professional fund-raising advisor, is working on this and advising us on how to formulate a program for introduction in 2015.

Canadian Distinguished Lecturer Committee Report

Satinder Chopra, Chair

Dr. Peter Cary, 2014/2015 Distinguished Lecturer

The Foundation operates the national CSEG Canadian Distinguished Lecture Tour, an annual event that started in 2005. Many post-secondary Geoscience departments across Canada host an industry or academic expert who delivers a presentation highlighting topics of current interest.

The 2014/2015 Distinguished Lecturer is Dr. Peter Cary, a well-known Calgary personality in the world of seismic data processing and former CSEG President (2004-2005). Peter is presenting his talk "Known Knowns, Known Unknowns and Unknown Unknowns in Land Exploration Seismology" to 27 different universities and institutions across Canada and into Alaska and Texas, wrapping up in April, 2015.

Andreas Cordsen supports the CDL program through a dedicated sponsorship commitment to the CSEG Foundation. Thank you Andreas!

2014/15 CDL Tour

November 17	University of New Brunswick, Fredericton, NB
November 18	St Francis Xavier University, Antigonish, NS
November 19	Acadia University, Wolfville, NS
November 20	Dalhousie University, Halifax, NS
November 21	Memorial University, St. John's, NF
December 16	Houston West, Houston, TX
December 16-17	West Houston + Woodlands + Downtown, Houston, TX
January 23	University of Saskatchewan Saskatoon, SK
February 2	Pacific Geoscience Centre, Sydney, BC
February 3	University of Victoria, Victoria, BC
February 4	Vancouver Island University, Nanaimo, BC
February 5	University of British Columbia, Vancouver, BC
February 12	University of Alberta, Edmonton, Edmonton, AB
February 23	Mount Royal University, Calgary, AB
March 4	University of Regina, Regina, SK
March 5	University of Manitoba, Winnipeg, MB
March 6	Lakehead University, Thunder Bay, ON
March 9	Université du Québec à Montréal, Montreal, PQ
March 10	University of Toronto KEGS, Toronto, ON
March 11	University of Waterloo, Kingston, ON
March 12	University of Ottawa, and GSC, and Carleton U, Ottawa, ON
March 13	Western University, London, ON
March 19	Queens University, Kingston, ON
March 20	Laurentian University, Sudbury, ON
March 27	FATS talk, University of Calgary, Calgary, AB
March 30	CSEG Technical Luncheon, Calgary, AB
April 9	Geological Society of America, Anchorage, Alaska

Outreach Committee Report

Dennis Ellison, Co-Chair and Director

Karen Chong, Co-Chair

Ciprian Georgescu, Secretary:

The CSEG Foundation Outreach Committee matures and maintains relationships between the CSEG and its current members, prospective members, and university students. As per our mandate, we focus heavily on developing awareness and education of the field of geophysics to these groups, as well as grade school students and the general public. Through 2014, the CSEG Executive and Foundation continued their solid financial and moral support, allowing our many volunteers to successfully complete another full year of productive activities.

The committee's core members for the 2014 year are Dennis Ellison, Karen Chong, Stephen Kotkas, Ben Consolvo, Annette Milbradt, Steven Kim, Jeff Calvert, Ciprian Georgescu and Chris Bird.

Supporting the committee in its many initiatives is a very large group of volunteers. Thank you to those who generously gave their time and energy, making this another highly successful year for the Committee. Thanks are also due to the many companies and organizations who allowed their staff to participate in our many programs and initiatives.

Jeff Calvert chaired **Schools Outreach** and Ben Consolvo chaired **Public Outreach**. Our dedicated and enthusiastic volunteers attended over 20 career fairs and assorted exhibitions in 2014, talking to students and the public about geophysics. We took our booth all over Canada, including Vancouver, Kamloops, Kelowna, Winnipeg, Saskatoon, Regina, Canmore, Edmonton, and Toronto, as well as to many local venues in the Calgary area. At 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 March 16th to 18th 2014, over 2000 students, teachers, and general public attended the fourth annual highly successful **Earth Science for Society (ESfS)** exhibition. ESfS had a strong line-up of exhibitors and over 120 volunteers contributing 765 hours to the success of the event.

From September 30th to October 2, 2014, CSEG-F Outreach hosted over almost 200 high school students and teachers from multiple Calgary Board of Education high schools 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, which included 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 volunteers 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 Chris Bird. 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 2014 for university students and junior geophysicists; provided networking opportunities, and ran the annual summer student field trip (**Geophysics Industry Field Trip, GIFT**) for over 40 university students from universities across Canada.

The USO also maintained its cooperation with other organizations to help administer events such as the Calgary Talk Series, CSEG/EAGE's student chapter talks, and APEGA's Alberta Student Energy Conference.

The **Mentorship program** chaired by Paul Hausmanis, is its sixth year and continued its steady growth through 2014. Workshops for both mentees and mentors were also held. Not only has the program accumulated more than 60 protégé-mentor pairings between university students and seasoned professionals, but has also extended using various and innovative forms of mentorship in order to reach mentees across Canada.

We are pleased to recognize and thank **CGG** for their generous sponsorship of 2014 student memberships, and welcome **Chevron** as the 2015 sponsor. We greatly appreciate this valuable contribution!

In order to further geoscience education, the newly created Educational Resources sub-committee has created a complete online source of educational materials, lesson plans, and experiments related to the field of geophysics and directly associated with the Alberta curriculum, for the use of teachers and students

The 2014 **Challenge Bowl** subcommittee was led by Chris Bird and supported by many volunteers, notably Stephen Kotkas, Lewis Jones, Brian Romero and Mai Swasdichira. 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 2014 SEG convention in Denver. Duncan's high energy style fed enthusiastic audience participation throughout the action-packed geoscience competition with competitors Adrian Smith and Christopher Chalcraft, representing the University of Calgary, taking the top spot.

CSEG Outreach members volunteered on the **Honorary Address (HA) committee**, chaired by Keith Millis. This year's event took place in November, with the theme "Understanding Our Past, Producing Our Future". Dr. Francois Therrien of the Royal Tyrrell Museum initiated the presentations by discussing his research in Alberta and why Alberta is a hot spot for paleontology. Then keynote speaker Dr. Scott Tinker, founder of the Switch Energy Project, presented how every organization from educators, politicians to scientists must come together to transform the energy conversation from polarized to practical. Over 500 members of the public and students of the Geoscience and Archaeology departments at the University of Calgary came to the evening event at the Jack Singer Concert Hall, where Outreachers manned the CSEG booth.

Ambassadors are CSEG representatives in cities across Canada and internationally. In 2014 the program, coordinated by Aaron Foyer, reinforced its relationship with the CSEG Canadian Distinguished Lecture tour, facilitating meet-and-greet opportunities at countrywide venues for CSEG members and university students. 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 2014.

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.

Scholarship Committee Report

Marc Boulet, Chair and Director

Senior Trustee: Brian Emmerson

Junior Trustee: Lindsay Miller

2014 marked another successful chapter in the 45-year history of the CSEG Foundation's scholarship program. The scholarship committee was able to allocate \$34,500 to nineteen deserving post-secondary students across Canada. We would like to acknowledge the twenty donors, consisting of oil and gas operators, service companies, individuals, the Rob Shugg Memorial Fund, and the CSEG Foundation, for their backing. This program would not exist without the annual generosity of the geophysical industry and the people who work in it. Thank you.

There were 66 applicants this year. The committee awarded scholarships in three categories. There were sixteen university scholarships, valued at \$2000, given to graduate and undergraduate students. For the third year, we awarded two \$1000 scholarships to students enrolled in a technologist program. We also awarded one \$500 scholarship to a dependent of a CSEG member. The scholarship recipients represented nine educational institutions in six provinces.

As the CSEG Foundation scholarship program enters its 46th year, the committee will focus on increasing awareness of our high school scholarship program, in collaboration with USO and the CSEG. It will offer three \$500 awards to grade 12 students entering university in 2015. The committee is honoured to continue the rich legacy of inspiring and rewarding the brightest new minds in geophysics.

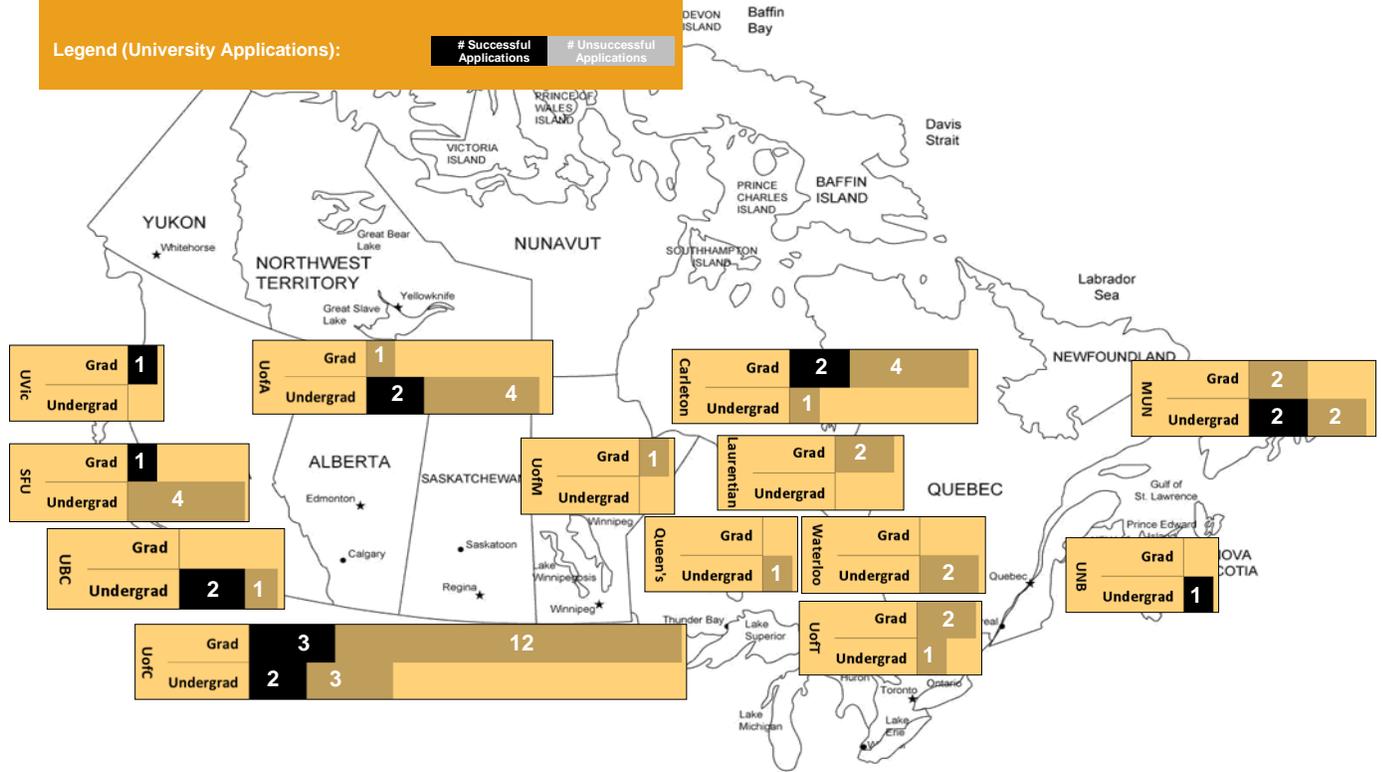
Recipient	Institution	Donor
Jennifer Adam	UNB	CSEG Foundation
Tunde Arenrin	University of Calgary	SeisWare
Jennifer Blanchard	Carleton University	Talisman Energy Inc.
Raymond Caron	Carleton University	Rob Shugg Memorial Fund
Phil Fortin	UBC	Hampson-Russell Software and Services
Benjie Friedman	UBC	CGG
Jeremy Furlong	SAIT	Jennifer Leslie-Panek
Jeremy Gosselin	University of Victoria	John Townsley
Jesse Kolb	University of Calgary	Athena Resources Ltd.
Matthew Lennon	University of Calgary	Andreas Cordsen
Steven Milbradt	SAIT	Klukas Family
Karl Mome	University of Alberta	Arcis Seismic Solutions
Michelle Montano	University of Calgary	Canadian Natural Resources Ltd.
Mike Ostrzenski	University of Calgary	Sigma Explorations Inc.
Elisabeth Ramsay	University of Alberta	Tesla Exploration Ltd.
Nathan Rose	SAIT	Nexen Energy ULC
Devin Tompkins	Memorial University	Pulse Seismic Inc.
Rajesh Vayavur	Simon Fraser University	Larry Lines, Neil Thompson, CSEG Foundation
Kendra Zammit	Memorial University	Anonymous

2014 Scholarships

59 complete, eligible university scholarship applications received **16 awarded**
 5 complete, eligible technologist scholarship applications received **2 awarded** (both SAIT)
 2 complete, CSEG-dependent applications received **2 awarded**

Legend (University Applications):

# Successful Applications	# Unsuccessful Applications
1	1
2	2
3	3
4	4



Travel Grants and Learning Subsidies Committee Report

Dave Bonar, Chair and Director

Sean Contenti, Asst Chair

The role of the Travel Grant and Learning Subsidy (TGLS) program is to provide student and professional CSEG members with financial support to develop awareness, knowledge and skills in geoscience by supporting educational opportunities. As in 2013, Andreas Cordsen has once again supported the TGLS program through a dedicated sponsorship commitment to the CSEG Foundation. Thank you Andreas; our committee sincerely appreciates the continued generous support!

The TGLS committee strives to provide easily accessible funding to our applicants and to build and maintain relationships with our numerous recipients. In turn, we ask our funding recipients to provide written summaries of their educational experiences which are published in the CSEG RECORDER in order to share with the CSEG community.

Due to the growing demand for the CSEG Foundation (CSEGF) Travel Grant and Learning Subsidy (TGLS) program as witnessed by the \$8,255 granted in 2012 and \$18,138 granted in 2013, the CSEGF increased the TGLS budget to \$30,000 in 2014. This allowed the TGLS program to provide \$22,616 in travel funding for over 100 recipients to travel or participate in 9 separate events (including talk series) during the 2014 calendar year. We are proud to have been able to assist students from the following universities:

- Queen's University
- University of Manitoba
- University of Regina
- University of Alberta
- McGill University
- Dalhousie University
- Simon Fraser University
- Carleton University
- Memorial University of Newfoundland

The TGLS committee is focused on continuous improvement to ensure that funding is impactful, easily accessible and our guide-lines flexible enough to accommodate both individual and group applications for events in Canada, or around the world. To this end, we are very happy to report that our approved 2015 TGLS budget has been maintained at \$30,000 by the CSEGF. The TGLS committee would also like to recognize that a new online application form will be functional as of March 2015.

The 2015 TGLS committee would like to continue to encourage relationships with university student groups to facilitate annual application continuity for specific events (GeoConvention, GIFT, SEG Annual Convention, PDAC, field schools). Student groups that communicate their intentions to send yearly delegations to events can help to improve the predictability of the

TGLS yearly budget and consequently make CSEGF funding amounts to groups more predictable. The implementation of web based application should make applying for travel grants and learning subsidies more accessible while increasing the efficiency, service and ability of our committee volunteers to make the most impact with their time. We intend to seize the momentum from our past few years to make our 2015 program the most impactful the CSEG community has seen yet.

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, as well as the CSEGF Outreach, CSEGF USO, and CSEG Symposium committees for promoting the program and providing support. We would also like to thank our numerous applicants for continuing to make this program a success.

2014 CSEGF TGLS Funded By Event	Funded Attendees	Focus
SEG Annual Meeting	27	Geophysics
CSEG Symposium	12	Geophysics
GIFT	1	Geophysics
WIUGC	26	Geosciences
PDAC	11	Geosciences
CSEG/CSPG/CWLS GeoConvention	4	Geosciences
PDAC	11	Geosciences
Dolomite Workshop in Italy	1	Geosciences
Dalhousie Earth Sciences Advanced Field School	18	Geology
Queen's Geological Speak Series	N/A	Geosciences

Committee: Dave Bonar, Sean Contenti, Kevin Bianchini and Daniel Loas