

CSEG Foundation 2016 Annual Report

Report from the Foundation Chair

Larry Herd, Chair and Director

Once again the Foundation exceeded our expectations both for increasing operating revenues and making do with fewer expenses. This year the Foundation, as did many organizations in the Earth Sciences field, experienced the effects of the continued market downswing. Last year, the Foundation board approved a deficit budget year which would have the effect of reducing our overall asset account by roughly \$111,000. Due to the diligent efforts of our committees and volunteers, we expect the actual deficit to be less than \$55,000; an amount that is more than offset by interest and capital growth gains in the CSEGF endowment investments.

With our asset base being so strong, the Foundation Board of Directors specifically elected to continue funding the programs that the Foundation supports in spite of reduced income, so that our services to the public and specifically our students were not adversely affected. The Board will continue to monitor our financial situation and make prudent budgeting and fund allocation decisions while ensuring the continuation of our core programs. This will likely mean continued deficit budgeting for 2018 and perhaps the following year until the industry recovers from the current market troubles.

Who we are:

The CSEG Foundation is a *registered Canadian Charitable 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, the mapping of natural hazards and understanding the Earth beneath our feet. 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.

2017 Board of Directors: (names in **bold** are Directors; * designates a CSEG past-President) Each Director's term is nominally three years and candidates may be self-nominated, by the membership, or through the nominating committee. Committee Chairs appointed as Directors typically serve on the Board for one year. These are the Directors, staff and committee representatives at the 2017 year-end:

Larry Herd* (Chair), **Ron Larson*** (Vice-Chair), **Nancy Shaw*** (Secretary), **Susan Thomson** (Treasurer, Special Projects Chair), **Neil Rutherford*** (Assistant Treasurer and Governance), **Marian Hanna*** (CSEG President and Representative to the Foundation), **Doug Uffen*** (Outreach Chair), **Doug Bogstie*** (Fund Development Chair), **Neil Orr** (Fund Development Vice-Chair), **Ian Watson** (Scholarships Chair), **Kun Guo** (Travel Grant and Learning Subsidy Chair), **Helen Isaac** (Communications Chair), Brodie Sutherland (Earth Science for Society Chair), **Cec Keeping**, Bernd Milkereit (CSEG Distinguished Lecturer Chair), Jim Racette (CSEG Managing Director), Alyssa Middleton (CSEG staff).

This year's highlights

- **Foundation assets** grew in excess of \$2.1M thanks to the generous donations of our members and corporate supporters and the income generated from our investments.
- For the 2017/18 budget year, the Foundation Board elected to **allocate \$7,500** of the annual operating funds to specifically support programs for unemployed members under the **Special Projects Fund** committee chaired by Susan Thomson. This is down from **\$18,000** from the previous year.
- The seventh **Earth Science for Society** (ESfS) on March 19-21, 2017, hosted over 2300 attendees of the public, including 1,238 students from 13 schools and over 350 children from 20 separate youth groups. In 2016, the CSEG Foundation "adopted" ESfS and became the long-term Parent Organization for this self-funding event. Of particular importance in 2017, ESfS received a \$35,000 NSERC PromoScience grant, a \$29,437 Community Initiatives Program project-based grant from the Government of Alberta and a supplemental \$5,000 grant to participate in Science Odyssey which took place May 12-21, 2017. Brodie Sutherland chairs the ESfS committee and is looking forward to the next event on March 18-20, 2018.
- **Outreach/University Student Outreach (USO)/Schools and Public Outreach** continued to support students in universities and K-12 schools, and to inform educators and the public at large about geophysics and the CSEG while maintaining a close eye on expenses. Doug Uffen chairs Outreach, the Foundation's largest committee, accounting for about half of our operating budget outside of ESfS. Outreach sent representatives with informational displays and handouts to teachers' conferences, science and physics conferences, career counsellor's conferences, and career fairs. This year, Outreach launched Phase One of their plan to initiate a stronger national on-line presence with videos and webinars. As of last summer, a total of 54 videos have been linked to our educational resources through the website.
- We continue to support post-secondary education and students through our **Scholarship Committee's** efforts chaired by Ian Watson. From 47 applications for university scholarships, the Foundation awarded 11 scholarships to students at six universities across Canada. In addition, one scholarship was awarded to a student at a technical institute and two High School students entering a university science program.

- The Foundation provided **travel grants and learning subsidies** (Kun Guo, chair) to help Canadian undergraduate and post graduate students take courses and attend conferences, seminars and geoscience field trips. In 2017, \$10,000 in funding was provided to assist over 20 recipients in support of travel or registration in events during the 2017 calendar year.
- In 2017, continued improvements in the Foundation's web presence and ongoing communications support was provided by the **Communications Committee** chaired by Helen Isaac.
- Our 2017/2018 **Distinguished Lecturer** is Doug Schmitt, who is giving his talk entitled "Adventures in Scientific Drilling: A Geophysicist's Perspective" to various different universities and institutions across Canada, wrapping up in April 2018.
- The **Geophysical Industry Field Trip** (GIFT), of which the Foundation is a Platinum sponsor, took over 40 students from eight different universities to various host companies, where they learned about operations, processing, interpretation and other elements of applied geophysics.
- Our **Fund Development Committee**, chaired by Doug Bogstie, has been working diligently to finalize the details of our new **Planned Giving** campaign - "**Preserving the Future of Geophysics in Canada**", which launched in January 2017 and have secured their first two participants.

In the big picture, **the CSEG Foundation's ongoing success** is attributable to several things:

- A strong Board of Directors with various levels of experience, a good set of Governance procedures, and advice and input from experienced and engaged members.
- Outstanding volunteers, some who have contributed for many years and some who are brand new, creating a dynamic mixture of experience, enthusiasm, energy and new ideas.
- Excellent financial support from our donors, including a number of very significant individual donations.

The CSEG Foundation Board, advisors and staff are a hard-working and dedicated group of professionals who volunteer their time and expertise to manage and lead this multi-faceted organization. At the heart of the Foundation is the innumerable volunteers who work tirelessly for the various committees. I want to pass on my personal thanks to all of the Foundation contributors (both financial and volunteer and staff) for all they have done to make this an extremely successful venture, furthering the geophysical cause and vision into the future. This will be my last year as Foundation Chair and I want to welcome Ron Larson as my successor – an extremely capable "captain at the helm".

Foundation Finance Committee Report - 2017

Susan Thomson – Treasurer and Director

Neil Rutherford – Assistant Treasurer and Director

This was again a challenging year for the CSEG Foundation, in terms of fund raising and sponsorship for our programs, and therefore the CSEG Foundation Board was cautious and judicious when planning the budget for the 2017 fiscal year. Recognizing that one role of the CSEG Foundation is to help maintain programs through tougher times, the Board and the committees worked to balance the need for



continued funding of our charitable programs while controlling expenditures. After much deliberation, the Board approved a deficit budget of \$111,328 for 2017.

Despite these challenging years, the endowment has continued to grow, through funding and interest, to more than \$1.6M. With interest rates on GICs having been at historic lows, it was decided that the Calgary Foundation could yield better returns on our investments, so in late 2017 another \$100,000 was invested, bringing our principal investment to \$690,000.

The CSEG and the CSEG Foundation continue to have a close and intertwined relationship. In recent years, the CSEG has seen a drop in revenues available to fund their programs and operations, and have been unable to financially support the Foundation, as they had been able in previous years. The CSEG Foundation in turn, is continuing to support the CSEG Executive by funding a portion of the CSEG office expenses, a legitimate and reasonable undertaking given the current climate.

With great fiscal restraint and oversight, the CSEG Foundation is projecting a deficit of \$55,000, for 2017, which is approximately \$56,000 less than the approved budget. It is with the ingenuity and efforts of our committees that we are able to continue our programs with reduced funding. At the time of this report the Foundation is likely to have year-end assets of about \$2.16M (up from \$2.092M in 2016).

Despite the challenges that the Foundation has had, it has been an enriching experience and the Finance Committee would like to thank the numerous Chairs and volunteers for their hard work at curbing spending while maintaining the integrity of the CSEG Foundation Programs. The Finance committee is grateful for the amazing work of a team of individuals, specifically Spryng Kubick, Neil Rutherford, Murray Hunter, Adrian Smith, Jim Racette and Alyssa Middleton. Many thanks for your continued enthusiasm and dedication to the CSEG Foundation.

Foundation Fund Development Committee Report

**Doris Ross, Chair succeeded by Doug Bogstie, Chair and Director
Neil Orr, Vice Chair**

The Fund Development Committee (FDC) encountered another challenging year in 2017. The committee was thankful to those members who were able to once again help us support a variety of worthwhile activities. Total contributions reached \$102,415.00 which was down from the amount collected in 2016. (\$159,877.00)

The 2017 year was a transition year for FDC with previous Chairman, Doris Ross, accepting a career opportunity in Australia. Neil Orr remained behind to work with the Foundation along with Doug Bogstie joining him. The twin goals of increasing the Endowment as well as either funding CSEGF endeavors or contributing to CSEG educational activities remained in place. Along with member donations, interest accumulated from CSEGF assets remain as our two sources of income.

Derek Fraser of Fraser Philanthropic Advisors remained a part of the team that will take the Foundation into the next level. The planned giving program allows those who have appreciated their time in our industry to give back a contribution within their estate. The Foundation is extremely pleased that we

have secured out the first two participants in this very worthwhile initiative. This initiative will remain a top priority for the FDC in 2018.

Aside from fundraising the committee was active in other areas. Our inclusion within the Canada Helps portal allows donors easy access to facilitate their contribution. We still retain the ability to donate from the CSEG web site. Additionally, the FDC completed work on a Gift Acceptance Procedure that will be referenced when any uncertainty surrounds a possible contribution. Under no circumstances will the FDC or Foundation undertake any activity that would bring dishonor to our society. The 2018 year will see a program that will approach newer members to begin a personal program of giving back.

The Foundation's financial picture is positive. Like everything else in life though we are in a transition period where some members are moving on while new members are joining our society. To those moving on after what was hopefully a rewarding career, an appeal to contribute what you can to our tax-deductible Foundation. To those joining, a challenge to grab the torch and begin a program of giving to help your career and sustain geophysics for those who will follow you.

Special Projects Fund Committee Report

Susan Thomson, Acting Chair and Director

Perry Kotkas, Chair

The Special Projects Fund (SPF) was created in April of 2016 in order to “support members of the geoscience community during the current economic downturn on projects outside the annual budget of the CSEGF”. Special consideration is given to under-employed and unemployed CSEG members.

2017 SPF Committee: Chair: Perry Kotkas (retired June 2017) Members: Susan Thomson, Doris Ross (retired May 2017)

2017 SPF Spend: ~\$14,000

The Special Project Fund primarily supported under-employed members to attend three major events: Geoconvention, the CSEG Symposium, and the CSEG Doodletrain.

Accessing support from the CSEGF Special Projects Fund: Please contact the CSEG office for more information and to be routed to the appropriate Foundation Committee member. Make sure you allow enough time for your project to be reviewed and approved by the CSEGF Board (one meeting, monthly), and for enough time to properly advertise the project for which support is requested.

Outreach Committee Report

Doug Uffen, Chair and Director

Adrian Smith, Vice Chair



Frugality continued to be the theme throughout the year for the Outreach committee which includes University Student Outreach, public outreach and schools outreach. Operating with a \$70,000 expenditure budget in 2017, the Outreach and USO team of volunteers managed to execute their collective programs at a significant cost savings. As this is being written in early February, budget projections anticipate that the committee will be able to execute their programs this year for a cost savings of over 10% and perhaps closer to a 15% savings below budgeted amounts. Kudos go out to the organizing committee and all the volunteers for executing this program so cost effectively and continuing to over deliver with expenditures below budgeted amounts. The committee's focus was to mitigate airplane travel along with hotel and meal expenditures as much as was reasonably possible, using local volunteers where we can. To this end, the CSEG Executive voted in January of 2018 to have the Ambassador's program transferred back to the CSEG Foundation, under the auspices of the Outreach Committee. While University Student Outreach (USO) is endeavoring to have area representatives at most Canadian universities across the country, the Ambassador's program essentially does the same thing outside of university circles with people within industry (not just the oil patch). We hope to use the physical addresses of these additional volunteers as nodal points for local initiatives such as teacher conferences and career fairs that expands our network across Canada, enabling us to promote geophysics even better and for less cost. Both programs will be used to support and promote ongoing initiatives such as Scholarships, the Canadian Distinguished Lecturer, the Geophysical Industry Field Trip (GIFT) and the like.

Outreach and USO have been moving our messaging on-line, using the website and the internet to reach people beyond our current geographically constrained reaches. It is not practical to attend a career fair in Goose Bay or Prince Rupert (the expense would be significant), yet using the CSEG website, we can do more to promote geophysics. The committee worked hard the last couple of years to identify quality on-line videos discussing various natural phenomena of a geophysical nature. As of last summer, a total of 54 videos have been linked to our educational resources through the website. As part of Phase 2 of our on-line initiative, the Outreach Committee has initiated some promotional awareness communication material through the CSEG Twitter account and the CSEG Facebook page to notify followers of these educational videos. The intent is to promote aspects of geophysics, heighten awareness of the profession and increase website traffic by students, the public and teachers. While the Outreach committee has been moving our message on-line, personal interaction is still an essential part of making people aware of our science. We just need to do this cost effectively, hence the addition of the Ambassador's program to our committee efforts.

Our messaging is also changing. We are trying to promote geophysics as the science of Mother Earth, encompassing the atmosphere, the hydrosphere and the lithosphere. In turn, this can lead into careers such as mining, environmental, climatology, earthquake prediction, volcanology, and the like, not just the oil and gas industry.

In 2016, our Outreach efforts included the Challenge Bowl along with the regional qualifier rounds at regional university conferences. We continued to support GIFT as one of our core programs as it is well attended every year. Regrettably, we attended fewer teacher conferences and career fairs due to budget restrictions but hopefully our on-line efforts will facilitate reaching out to even more people in the future.

Thanks goes out to the entire Outreach committee team. Adrian Smith was our financial person for 2016 and a special thanks goes out to him for keeping track of things financially. Adrian has now stepped down from this position but has taken on the role of Vice Chairman for Outreach / USO and will succeed me in June 2018 as Chairman. The committee will be in good hands. Many thanks goes out to Laura Osorio (USO), Sam Quiroga (Public Outreach) and Alessandro Carducci (Schools Outreach) for all of their efforts in executing our 2017 program. All of this is made easier by Alyssa Middleton who helps us throughout the year tremendously.

Earth Science for Society Committee Report

Brodie Sutherland, Chair

Glenn Malcolm, Vice Chair



Earth Science for Society March 18-20, 2018 – <http://esfscanada.com/>

Earth Science for Society (ESfS) is an annual exhibition that demonstrates how the Earth Sciences play a critical role in our society. The exhibition is organized by a committee of over 30 volunteers who work throughout the year to ensure a successful event. The exhibition relies upon the support of over 90 enthusiastic volunteers covering 200 shifts and accounting for over 700 volunteer hours. Thirty-three exhibitors participated in the March 19th-21st, 2017 exhibition with stimulating interactive displays for youth and the public. In 2017, the **ESfS** exhibition hosted over 2,300 attendees, including 1,238 students from 13 schools and over 350 children from 20 separate youth groups. Each year the program has expanded; 2017 saw a record number of 915 public members attend the exhibition. Our 19 generous funders provided \$124,987 in financial support. Of particular importance in 2017, we received a \$35,000 NSERC PromoScience grant for **ESfS** 2017 and a supplemental \$5,000 grant to participate in Science Odyssey which took place May 12-21, 2017. We were also awarded a \$29,437 Community Initiatives Program project-based grant from the Government of Alberta. In-kind donations and sponsorship totalled close to \$15,000 from 25 organizations. This allowed **ESfS** 2017 to maintain a break-even budget.

In 2018, the 8th annual **ESfS** exhibition will be held **March 18th to 20th**. We have 1,351 students and 369 youth group participants signed up and we are expecting 40 exhibitors. This year, the exhibition will be open Monday night from 6-9 pm to reach out to even more people interested in learning about the Earth Sciences!

Foundation Scholarship Committee Report

Ian Watson, Chair and Director

Craig Mosher, Senior Trustee

Rob McGrory, Junior Trustee

2017 was another successful year in the 48-year history of the CSEG Foundation's scholarship program. In 2017, the scholarship committee was able to allocate \$23,000 to 12 post-secondary students across Canada. In addition, we awarded two \$500 scholarships to high school students entering a science-based university program in the fall of the same year.

The committee would like to acknowledge the individuals, oil and gas operating companies, service companies, the Rob Shugg Memorial Fund, the CSEG Doodlespiel and DoodleBug, and the CSEG Foundation for their backing. Thank you all for your faithful generosity. The scholarship program relies on your contributions and the recipients of funds are extremely grateful.

We received a record number of 47 applicants for university geophysics scholarships (35 graduate, 12 undergraduate). The committee awarded 11 scholarships of \$2,000 in this category to students at six institutions across Canada. We also awarded one scholarship of \$1,000 in the technologist category.

University student and technologist scholarship recipients in 2017 were:

Recipient	Institution	Sponsor
Aamna Asad Sirohey	Western University	CSEG Foundation
Callum Walter	Queen's University	"In the Rings" Doodlespiel Curlers
Ederson Villamizar	Memorial University of Newfoundland	Athena Resources
Hilary Chang	Memorial University of Newfoundland	Imperial Oil
Jorge Monsignny Parra	University of Calgary	Repsol
Kevin Lugtu	University of Calgary	Paramount Resources
Oday Daboor	Queen's University	CSEG Doodlebug Golfers
Ruhollah Keshvardoost	McGill University	Rob Shugg
Scott Keating	University of Calgary	TGS
Tess King	University of Toronto	CSEG Doodlebug Golfers
Tyler Spackman	University of Calgary	Andreas Cordsen
Snehpreet Kaur	Southern Alberta Institute of Technology	CSEGF Scholarship Committee

High school recipients of scholarships, entering into university science programs in the fall of 2017 were:

Recipient	Institution	Sponsor
Basel Moukaskas	University of Alberta	Perry & Karen Kotkas
Lauren Coulombe	University of Calgary	Perry & Karen Kotkas

Foundation Travel Grants and Learning Subsidies Committee Report**Kun Guo, Chair and Director****Vice Chair: Pamela Bucher**

The role of the Travel Grants and Learning Subsidy (TGLS) program is to provide student and professional CSEG members with financial support to develop and gain awareness, knowledge, and skills in geoscience. In 2017, Andreas Cordsen has once again supported the TGLS program through a 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 CSEG publications to share with the CSEG community.

In 2017, the CSEG Foundation Travel Grant and Learning Subsidy committee was granted a budget of \$10,000, despite the economic downturn. This allowed the TGLS program to grant, as of this report, up to \$8,000 in funding for 20 applicants to travel or participate in events worldwide during the 2017 calendar year. We are proud to have been able to assist professionals as well as student members of the CSEG from the following universities:

McMaster University, Mount Royal University, Western University, University of Alberta, University of Calgary, Université Laval, University of Manitoba, University of Saskatchewan University of Toronto

The TGLS committee is focused on continuous improvement to ensure that funding is effective and easily accessible, and that our guidelines are flexible in accommodating the needs of both individual and group applicants for events in Canada and around the world. The TGLS committee has requested a budget of \$8,000 for the 2018 calendar year, and will be undertaking efforts to increase our exposure with un- and under-employed CSEG members, with a focus on providing funding for maintaining professional skills and development.

The 2018 TGLS Committee would like to continue developing the relationship with university student groups and facilitating their applications for annual events (GeoConvention, GIFT, SEG Annual Meeting, geophysical field schools). We propose the TGLS yearly budget be drafted based on the number of delegates student groups are planning to send, so the CSEGF can plan a more realistic budget to these

groups. The 2018 committee would also like to reinforce partnerships educational and professional development initiatives, existing or new (CSEG Emerging Professionals Program, Junior Geophysicists Forum, etc), to overcome financial barriers and promote continuing geoscience education.

The CSEG Travel Grant and Learning Subsidy program continues to provide CSEG members with opportunities to learn about, develop and share geoscience in a variety of ways. We would like to extend our sincere gratitude, on behalf of our committee volunteers and all of our funding recipients, to 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.

Foundation Communications Committee Report

Helen Isaac, Chair and Director

The Communications Chair has the responsibility of coordinating and editing communications between the Board and CSEG members. The Foundation pages on the CSEG website keep the membership informed about activities such as scholarships, the mentorship program, GIFT, the travel grant and learning subsidy, and the CDL tour, and allow access to on-line application forms. The website also includes up-to-date information about the board of directors, the activities we support, annual reports and audited statements, Investment Policy, Investment Plan, Governance, and By-laws.

The revamped webpages on Donating to the Foundation inform members about how they can help the Foundation by donations or Planned Giving, and provide a link to an on-line donation form.

The Outreach pages of the website were completely reworked to have a modern look and easy access to information. The Outreach committee deserves accolades for this achievement.

A major avenue for the Foundation to communicate to the membership is through the Recorder. In 2017 the on-line Recorder published articles on activities which receive funding from the Foundation, such as Earth Science for Society, Seismic in Motion for Students, the Mentorship program, scholarships, and GIFT.

The Communications committee assists other committees to edit and finalize documents and letters.

Canadian Distinguished Lecturer Committee Report

Dr. Bernd Milkereit, Chair

Dr. Douglas Schmitt, 2017/2018 Distinguished Lecturer

The Foundation operates the national CSEG Canadian Distinguished Lecture Tour, which is an annual event that started in 2005. Many post-secondary Geoscience departments and research institutions



across Canada host an industry or academic expert who delivers a presentation highlighting topics of current interest.

The 2017/2018 Distinguished Lecturer is Doug Schmitt, a Professor of Geophysics and Physics at the University of Alberta. Doug leads the Experimental Geophysics Group, a hands-on team that conducts a variety of field and unique laboratory rock physics and geomechanics experiments. Notably, numerous scientific drilling projects have sought out this expertise; and his team has now worked on over a dozen projects on six continents in environments ranging from the equator to both the Arctic and Antarctic. Doug is a graduate of the University of Lethbridge and the California Inst. of Technology, and has worked as an exploration geophysicist in Calgary and as a postdoctoral researcher at Stanford University. He recently completed two terms as a Canada Research Chair Tier 1 in Rock Physics. As the 13th CSEG Distinguished Lecturer, Doug is presenting his talk "Adventures in Scientific Drilling: A Geophysicist's Perspective". For over 15 years, the Experimental Geophysics Group at the University of Alberta has contributed Geophysics, Rock Physics, and Geomechanics expertise to a wide variety of scientific drilling programs reaching all of the continents save South America. Broadly, Doug's research has focussed in three themes: 1. Geomechanics related to crustal stress determination and faulting (Alberta, Antarctica, New Zealand, India, Idaho) 2. Geophysics of Large Meteorite Impacts (Ghana, Yucatan, Alberta), and 3) Determination of seismic anisotropy from borehole and laboratory studies (Finland, New Zealand, Alberta). The local community hosting the CDL event selects the theme based on their interest. However, a task of Doug's lecture is also to inspire prospective new geoscientists! So, each of these talks will also describe on-the-rig experiences with specific drilling programs presenting not only the science but also giving impressions about what it is like to work with great groups of diverse and highly collaborative geoscientists on tense, time and resource limited projects. To date, he has given his presentation at 18 different venues and a further 3 presentations are scheduled for the spring, wrapping up with the CSEG Luncheon (Calgary) in June, 2018.