



# CSEG Foundation

## 2013 CSEG Student Outreach Newsletter Spring Edition

### CSEG Foundation Mentorship Program 2012/2013

The strength of our industry is based on the proper development of the next generation of professionals. With that in mind, it is the goal of the Mentorship program to pair one student and one working geophysicist -- a mentorship pair. Mentorship pairs meet over coffee or lunch, exchange emails, go to CSEG luncheons and spend time developing the students understanding of both their science and their future position within the industry. It is our hope that this relationship can be the start of a strong network for young students, as well as an opportunity to learn more about the hard and soft skills necessary to be a successful professional.

The 2012/2013 Mentorship program has been the most successful one to date. Our achievement is thanks to the hard work of all our contributing mentors alongside the organizing committee. In 2012 we saw our mentorship pairings increase from 23 to 46 pairs. On January 30<sup>th</sup> we held our second annual Mentor Workshop. Feedback from the workshop was positive and the organizing committee was able to get valuable information on ways the program can be improved.

The school year is quickly coming to a close and with it the wrap-up to the 2012/2013 mentorship year. Here's a friendly reminder to all our mentors and mentees to make time for one last coffee or CSEG luncheon before schedules get too hectic with finals coming up. **Save the date for the end of year Mentorship wrap-up party on April 30<sup>th</sup>.** Thanks again to all our mentors for volunteering their time to this pivotal program and good luck to all our mentees as they approach finals.

If you are interested in taking part in the mentorship as a student or as a professional please contact us at [mentorship@cseg.ca](mailto:mentorship@cseg.ca)

## CSEG Travel Grant and Learning Subsidy Program

Written by Jessa Lee, Geoph I.T, Apache Canada Limited

Looking to travel to a convention, learning opportunity or host an educational event? You should read this article!

In 2012 the **CSEG Foundation Travel Grant and Learning Subsidy** supplied over \$9,000 for students to travel and attend events such as the CSEG Convention, the SEG Annual Meeting, geophysical workshops, geological field trips, WUIGC, and CUPC. We have seen this program grow over the last few years and had over 96 member applicants from universities across Canada. As a result of this growth, we are excited to announce that in 2013 we have an **increased budget** and hope to be able to fund even more students to attend worthwhile events. So if you plan on travelling to or hosting a geophysics based learning event where you could use funding – please apply!

The **CSEG Foundation Travel Grant and Learning Subsidy** have 3 deadlines per year: Feb 1, June 1, and Oct 1. In order to receive a grant for yourself or your group, you must apply at the deadline which occurs *before* your event in order to get approval for funding before you go. Plan ahead and be prepared for these deadlines, and you will have a better chance at capturing some funds for your endeavor. Funding to travel to the 2013 CSEG Geophysical Industry Field Trip (GIFT) might be of interest for the June 1 deadline! If you missed our deadline for travel funding to attend GeoConvention, check out funding available from Convention itself - see the link below.

The **CSEG Foundation Travel Grant and Learning Subsidy** has a mandate to fund great learning opportunities for students, so don't miss out on this opportunity for funding!

Interested?

Check out the CSEG Foundation page at:

<http://www.cseg.ca/foundation/index.cfm>

Check out our funding guidelines at:

[http://www.cseg.ca/foundation/\\_docs/CSEG-Foundation-Funding-Guidelines.pdf](http://www.cseg.ca/foundation/_docs/CSEG-Foundation-Funding-Guidelines.pdf)

**FILL** out the application at:

[http://www.cseg.ca/foundation/\\_docs/CSEG-Foundation-Funding-Application.pdf](http://www.cseg.ca/foundation/_docs/CSEG-Foundation-Funding-Application.pdf)

Please feel free to email the funding committee at [foundationfunding@cseg.ca](mailto:foundationfunding@cseg.ca) if you have questions.

GeoConvention student travel funding:

<http://www.geoconvention.com/registration/student-assistance-program.html>

## Geoskills 2013

Written by Adam Flynn, Geoph I.T, RPS Energy

On February 6<sup>th</sup>, students from Calgary and Edmonton attended the 6<sup>th</sup> annual Student-Industry training day and Geoscience mixer at the Metropolitan Center in Calgary. The event was expertly organized by university students with the guidance of APEGA. Financial support was provided by APEGA, CSPG, CSEG, CWLS, and Industry. The day was filled with well attended short courses for students followed by an evening mixer. This event would not have been possible without the following sponsors: Apache, Petrobakken, Suncor, Sensor and Talisman Energy.

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## Geophysics Industry Field Trip- GIFT

Written by Daniel Loas

The CSEG Foundation's Geophysical Industry Field Trip (GIFT) has evolved into a 3 day event that will be held on June 6th - 8th, 2013 in Calgary, Alberta. GIFT is designed to supplement academic education by introducing undergraduate geoscience students into the world of professional geophysics. This is accomplished by receiving technical presentations from 3 companies about their respective specializations which will include; seismic survey design, acquisition, processing, and interpretation. GIFT has also been extended to include a geology-focused hike in Canmore guided by professionals. This field trip is an excellent opportunity to network with established, industry professionals, and students from across Canada.

Keep in mind that the CSEG offers Travel and Conference Funding for eligible students. Please visit the CSEG website to learn more and register. If you have any questions, feel free to contact [usofieldtrip@cseg.ca](mailto:usofieldtrip@cseg.ca)

# CSEG's 5<sup>TH</sup> ANNUAL GEOPHYSICAL INDUSTRY FIELD TRIP

AN EXTENDED LOOK INTO THE WORLD  
OF PROFESSIONAL GEOPHYSICS

DATE: JUNE 6<sup>TH</sup> – 8<sup>TH</sup>  
LOCATION: CALGARY

Tour Calgary's seismic industry, and interact  
with passionate professionals and peers.

Prepare for an overnight in Canmore and a  
professionally guided geological hike!



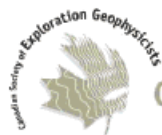
Acquisition



Survey Design & Processing



Interpretation



CSEG Foundation

Questions? Email: [usofieldtrip@cseg.ca](mailto:usofieldtrip@cseg.ca)

## T-WAVE

Written by Aaron Foyer, Geoph I.T, Talisman Energy Inc.

Do you golf? Do you enjoy the warm June sun? Do you like beer? Look no further! Join the CSEG's 5th annual T-wave golf tournament for an afternoon of golf, drinks, and good times with fellow geophysicists. The T-wave, which takes place on the afternoon of June 24th, is guaranteed to be one of the most & least memorable afternoons you'll have all summer! Registration is \$75/students or \$300/team of 4. Don't let the cost of registration drive a wedge between you and the T-wave, there are tons of amazing prizes, and the opportunity to network with industry professionals. Lunch and dinner are included. Registration starts on April 1st, with forms on the CSEG website.

And then you can grab the T-wave symbol from the Sponsorship package attached.

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## CUPC 2013

The 2013 CUPC will be held at McMaster University in Hamilton, Ontario. Please see <http://www.mups.ca/about/> for more information.

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## MUG Talk

Wednesday, April 10 – 12:00 PM at Aquitaine Auditorium, +15 level of 540 - 5 Avenue SW

**To what extent do earthquakes induced by fluid injection at depth contribute to the seismic hazard?**

The talk is given by Art McGarr - USGS

To register please visit [www.cseg.ca](http://www.cseg.ca). Attendance is free, just bring along your lunch.

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## CSEG Luncheon Tickets for Students

Written by Brad Ohler, Geoph I.T, Shell Canada

For many years, generous corporate sponsors have donated free tickets for the monthly CSEG Technical Luncheon to students studying at the U of C and SAIT. These luncheons are an effective way for students to keep current with the ongoing trends in the geophysical community, network with industry professionals, and reduce the strain their meal budget (tickets are normally \$45). Students who are interested in attending should contact Laura Baird at the U of C or John Fernando at SAIT for tickets.

## 2013 CSEG Symposium

Written by Oliver Kuhn, 2013 CSEG Symposium Chair

The second annual CSEG Symposium was held on March 7<sup>th</sup> at the Telus Convention Centre to a sold out audience of 300. This unique technical / educational event is made up of three main components – a CSEG member is honored for his/her significant contributions, several invited key note speakers deliver technical talks, and the CSEG annual awards are presented during the luncheon.

The honoree this year was Bill Goodway, well known for several technical contributions, including his work on Megabin acquisition and LMR, and for his numerous efforts on behalf of the CSEG. It was a star-studded list of speakers, including three former CSEG presidents, the current SEG president (David Monk of Apache), and several CSEG and SEG Distinguished Lecturers. The Symposium aims to offer case study talks that demonstrate the value added through the application of geophysical methods. All the talks this year had some connection to Bill's work, direct or loose, and ran the gamut from acquisition all the way to reservoir characterization, and even included a talk on hazard avoidance in the form of the potential of a Lake Kivu methane eruption! There was lively discussion and networking among the delegates at the coffee breaks, during lunch, and at the post technical session social.



Above: Lee Hunt giving his tribute to the Symposium Honouree Bill Goodway

This year the CSEG Foundation made travel subsidies available to geophysics graduate students, and this resulted in six students from U of Alberta and six students from U of Calgary attending. Given the high calibre technical content that is delivered at this marquee event, the aim is to ensure that the limited number of seats available are taken by geophysicists in industry who are eager to learn how to better add value in their professional roles, and graduate geophysicists whose research work will likely result in leading edge methods to be applied by industry in the future to add value.



## WIUGC 2013

Written by Mike Smorodin, Geoph I.T., Apoterra Seismic Processing Ltd.

The CSEG Foundation recently sponsored the 2013 Western Inter-University Geoscience Conference (WIUGC) which was hosted by the University of British Columbia in Vancouver from January 3rd through 5th. Two CSEG representatives, Mike Smorodin of Apoterra Seismic Processing Ltd. and Aaron Foyer of Talisman Energy, attended the conference in order to educate students about geophysics and to promote student membership within the CSEG.

The conference had 4 main components: field trips, industry speakers, student presentations and social events. Aaron Foyer was one of the industry speakers and gave a very memorable talk titled "Seismic Techniques in the Oil and Gas Industry". Along with explaining the basics of reflection seismology, Aaron showed some great visuals of paleo-channels mapped using seismic and also touched on more general industry points like land sales and mineral rights. Many students went out of their way to thank Aaron for helping them better understand seismic theory and its practical applications. On the student presentations side, there were many great talks covering much of the geoscience spectrum including oil and gas, mining, environmental and even outer space. Johan Gilchrist of the UBC was given the CSEG's award for Best Geophysical Presentation for his talk titled "Origins of the Solar System: OSIRIS-REX and Paleomagnetism". Congratulations Johan and good luck to next year's student presenters.



Above: Mike Smorodin (Left), Johan Gilchrist (Centre), Aaron Foyer (Right)

The 2013 WIUGC had approximately 90 attendees, 9 of which were from the University of Calgary, and 8 of those were geophysics students. This exceptional showing from the Geophysics Undergraduate Students Society (GUSS) granted U of C the honours to host the 2014 WIUGC, which will be the 50th anniversary of the conference. It is going to be a great event so if you have the chance to attend, I would seize the opportunity. Please do not hesitate to email me at [mikes@apoterra.com](mailto:mikes@apoterra.com) if you have any questions or would like to get in touch with the organizing committee.

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## 2013 AAPG Canada Region Imperial Barrel Award Competition

Written by Tiffany Piercey, Imperial Oil Resources

2013 marked the AAPG Canada Region's Sixth Annual Regional Imperial Barrel Award (IBA) Competition. The competition was held on Friday, March 22nd here in Calgary at the Nexen Annex Theatre. AAPG's Imperial Barrel Award Program is an annual prospective basin evaluation competition for geoscience graduate students from universities around the world. University teams compete to win scholarship funds for their geoscience department and the international recognition that comes from competing or winning in the competition. The program is rigorous and contributes to AAPG's mission of promoting petroleum geoscience training and advancing the careers of geoscience students.

This year the competition comprised of teams from University of Alberta, University of Calgary, University of Western Ontario, Dalhousie University and Memorial University. Our judging panel consisted of industry experts from our sponsor companies BP Canada, Schlumberger, Imperial Oil, Husky Energy and ConocoPhillips. Other sponsors included Nexen, Talisman, Chevron and the CSEG Foundation. The judges listened attentively to all 5 team's evaluations of the same Gulf of Mexico dataset off the Louisiana coast that consisted of a 3D seismic survey and 11 partial suites of well logs. In the end, Dalhousie University emerged the winner, with the University of Alberta as the first runner up and the University of Calgary and the second runner up.

Over the past several years the Canada Regional winning teams have gone on to finish fourth, third and, second in the Global Competition. This year the team from Dalhousie University will go on to compete at the AAPG Annual Meeting in Pittsburgh in the Global Competition against 11 other teams from the other AAPG sections and regions with hopes of placing in the top again! Good luck Dalhousie!

More information about the program can be found at: <http://www.aapg.org/iba>. Please contact the Canada Region IBA Competition Coordinator: Tiffany Piercey ([tiffany.c.piercey@esso.ca](mailto:tiffany.c.piercey@esso.ca)) for additional information.





## AAPG CANADA REGION 2013 IBA Competition Day Agenda

Time	Duration	Agenda
<b>8:00</b>	<b>30</b>	<b>Breakfast: At Nexen Annex Theatre</b>
<b>8:30</b>	<b>30</b>	<b>Welcome and Introduction's</b>
9:00	15	University of Alberta Team Set-Up
	25	Team presentation
	20	Questions and scoring by Judges
10:00	15	University of Western Ontario Set-Up
	25	Team presentation
	20	Questions and scoring by Judges
<b>11:00</b>	<b>15</b>	<b>Break</b>
11:15	15	Dalhousie University Set-Up
	25	Team presentation
	20	Questions and scoring by Judges
<b>12:15</b>	<b>60</b>	<b>Lunch: At Nexen Annex Theatre</b>
1:15	15	University of Calgary Set-Up
	25	Team presentation
	20	Questions and scoring by Judges
2:15	15	Memorial University Set-Up
	25	Team presentation
	20	Questions and scoring by Judges
3:15		Judges meet to make decisions
<b>5:30</b>		<b>Reception at Calgary Petroleum Club</b> Announcement of Winners and Prize Awards



**Society of Exploration Geophysicists**  
*The international society of applied geophysics*

## **SEG Challenge Bowl**

*Canadian • Seventh Annual  
May 2013 • Calgary, Canada*

## **2013 CSEG Challenge Bowl**

Written by Tiffany Piercey, Imperial Oil Resources

This year's Canadian Challenge Bowl is going to be held on Wednesday, May 8th.

The Challenge Bowl is an action-packed geoscience quiz game for geological and geophysical student members. The quiz show format features intense competition as the contestants attempt to buzz in first with the answers to challenging geoscience questions. All geoscience students are encouraged to participate in this unique event which combines knowledge, competition, and fun.

Each year teams from different Canadian Universities compete for the grand prize - an expenses-paid trip to the SEG Annual Meeting in Houston. Here, the winning team will get to compete against the best from SEG chapters around the world! Check out our website at <http://cseg.ca/students/cseg-challenge-bowl>.

Come along to cheer on your favourite team, marvel at their knowledge, and share their enthusiasm! There is no charge for this event. Interested in being a Canadian Challenge Bowl contestant? Please email [challengewbowl@cseg.org](mailto:challengewbowl@cseg.org).



# AESRC 2013

Written by Mike Preiksaitis

Advances in Earth Science Research Conference (AESRC) is an annual Eastern Canadian geoscience conference that Western University hosted in London, Ontario from March 22-24. AESRC's purpose is to foster inter-university collaboration and communication in geoscience. This year it was well attended by over 80 students! The CSEG is thrilled to be a sponsor and to award the prize for best geophysical talk to Rie Kamei of Western University for her presentation on "Velocity imaging of the Nankai subduction zone by waveform tomography". The conference will return next year at Carleton University in Ottawa.



Mike Preiksaitis representing CSEG explaining the benefits of CSEG membership to Queens students from Kingston, Ontario



Ken Kocon (Left), Rie Kamei (Centre) being presented with best geophysical talk by Mike Preiksaitis (Right)

## CSEG EAGE Talk series

Written by Nathan Fester, Geoph I.T, Tundra Oil and Gas Ltd.

The CSEG/EAGE Talk Series and GAGGS Seminars is a talk series that runs through the University school year at U of C. It represents an opportunity for student geoscientists to take in talks from industry leaders on topics that are relevant to geophysicists of today. This year saw great talks given by John Duhault (Petrobakken), Gerard T. Schuster (SEG Distinguished Lecturer) and Ken Gray (OSUM Oil Sands Corp). There are three remaining talks this year: Jon Noad (Husky), Brian Russell (Hampson-Russell) and Mike Smordin (Apoterra) running March 25<sup>th</sup>, April 1<sup>st</sup> and April 8<sup>th</sup>. All talks are held at the University of Calgary in ES 136 from 4-5pm. Talks are open to any interested geoscience student. We encourage interested MRU and SAIT students to make the trip over to the U of C and take part in this talk series.

If you are interested in having speakers come to your university please contact [students@cseg.ca](mailto:students@cseg.ca)

### CSEG/EAGE Talk Series – GAGGS Seminars Winter 2013 schedule

Speaker	Theme	Date	Location	Time
John Duhault Petrobakken	Cardium Microseismic: Observations and Conclusions	Feb. 4 <sup>th</sup> , 2013	Geoscience, ES136 University of Calgary 844 Campus Place Northwest Calgary, Alberta, T2N 1N4	4-5pm
Gerard T. Schuster (SEG Distinguished Lecture)	Seismic Interferometry and Beyond – Harvesting Signal from Coherent Noise	Feb. 19 <sup>th</sup> , 2013	Geoscience, ES443 University of Calgary 844 Campus Place Northwest Calgary, Alberta, T2N 1N4	2:30-3:30pm
Ken Gray OSUM Oil Sands Corp.	Seismic characterization of the Grosmont Formation, a carbonate bitumen reservoir	Mar. 11 <sup>th</sup> , 2013	Geoscience, ES136 University of Calgary 844 Campus Place Northwest Calgary, Alberta, T2N 1N4	4-5pm
Jon Noad Husky Energy	The Power of Integrated Teams in the Oil Business	Mar. 25 <sup>th</sup> , 2013	Geoscience, ES136 University of Calgary 844 Campus Place Northwest Calgary, Alberta, T2N 1N4	4-5pm
Brian Russell CGGVeritas Hampson-Russell	A new look at Seismic Attributes	Apr. 1 <sup>st</sup> , 2013	Geoscience, ES136 University of Calgary 844 Campus Place Northwest Calgary, Alberta, T2N 1N4	4-5pm
Mike Smorodin Apoterra Seismic Processing Ltd.	TBA - 5D interpolation	Apr. 8 <sup>th</sup> , 2013	Geoscience, ES136 University of Calgary 844 Campus Place Northwest Calgary, Alberta, T2N 1N4	4-5pm





Today's students are tomorrow's industry leaders, and **GeoConvention 2013: Integration** will honour these delegates by giving them access to an unparalleled array of networking and social events, as well as new initiatives to make attending the Convention easier.

#### **Travel Aid**

The Integration: 2013 committee is pleased to once again offer an initiative geared to attract greater numbers of students to the convention. Students may apply to the convention committee for a travel and accommodation grant that will make it easier to attend this important convention on a limited budget. Proudly sponsored by Talisman Energy, and Imperial Oil, this initiative will allow more students to network with industry professionals both on the exhibit floor and in the technical sessions.

#### **Volunteer Opportunities**

Once again this year, students who volunteer a minimum of 8 hours will have their registration fee of \$90 refunded post-convention. Visit the convention website for information on volunteer opportunities, and sign up for a great opportunity to network with thousands of earth science professionals.

#### **Special Events**

The **Challenge Bowl** is an action-packed geoscience quiz game for geological and geophysical student members. Teams from across Canada compete for the grand prize - an expenses-paid trip to the

SEG convention to compete against the best from SEG chapters around the world!

Cheer on your favourite team, marvel at their knowledge, share their enthusiasm and win fabulous door prizes!

The **Industry/Student Luncheon** will allow students to network with geoscience professionals, and learn more about the industry. Come mingle with your future colleagues; tickets are available upon registration, and are available to students at a reduced rate.

**Visit [www.geoconvention.com](http://www.geoconvention.com) for more information on all of the above, and follow the convention on twitter, @geoconvention, for updates and more.**

# CSEG Foundation Scholarship Updates

Written by Sarah Cutten, ARC Resources Ltd

Established in 1970, the CSEG Foundation Scholarship Trust Fund awards annual scholarships to deserving geophysics students from universities across Canada.

Last year, \$36,000.00 worth of scholarships were awarded to students across Canada

In order to qualify for an award, post-secondary students must be enrolled in a full time program leading to an exploration geophysics career in industry, teaching or research. Scholarships are awarded on the basis of academic performance, financial need, interest in geophysics and extra-curricular activities.

Scholarships are awarded at \$2000.00 each for University students and \$1,000.00 for technical institute students.



## Important News for 2013

- The CSEG Foundation is proud to announce 4 new scholarships for Students who are entering their first year of post-secondary studies
  - 2 Awards will be granted to dependents of CSEG members
  - 2 Awards will be granted to High School Students

These Scholarships are awarded at \$500.00 each, and are awarded on the basis of academic performance, financial need, interest in geophysics and extra-curricular activities. All Scholarships are applied directly to the student's tuition fees.

- New this year, we will be accepting scholarship applications via email to [csegf.scholarships@shaw.ca](mailto:csegf.scholarships@shaw.ca)
- Application forms can be found at <http://cseg.ca/students/scholarships>

The Application Period is open from Sept 1<sup>st</sup>-Nov 1<sup>st</sup> 2013. Awards are granted and winners will be notified Dec 1<sup>st</sup> 2013. Awards are paid on Jan 1<sup>st</sup> 2014.

For any additional information please contact the scholarship committee at [csegf.scholarships@shaw.ca](mailto:csegf.scholarships@shaw.ca)

If you have any questions at all please do not hesitate to contact one of the members on the Scholarship committee.

Chair: Matthew Klukas  
[mklukas@talisman-energy.com](mailto:mklukas@talisman-energy.com)

Senior Trustee: Sarah Cutten  
[scutten@arcresources.com](mailto:scutten@arcresources.com)

Junior Trustee: Marc Boulet  
[marc.boulet@cenovus.com](mailto:marc.boulet@cenovus.com)

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**Students- don't forget that you need to reapply as the memberships expire on January 1, 2013. The student membership forms can be found:**

<http://www.cseg.ca/membership/membership-info.cfm>

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*If you would like to contribute to the CSEG newsletter please email submissions to [karen.m.chong@gmail.com](mailto:karen.m.chong@gmail.com) and [jchling@gmail.com](mailto:jchling@gmail.com)*

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