



August 8, 2018

## KEGS Foundation Announcement

### Collett Graduate and GSC Pioneers Scholarships Awarded for 2018/19

The Directors of the KEGS Foundation are very pleased to announce the awarding of two prestigious doctoral scholarships for the forthcoming academic year (2018/19), notably, the initial award of the Len and Genice Collett Graduate Scholarship in Geophysics, and the tenth award of the GSC Pioneers Scholarship.

Marking the nineteenth year of the KEGS Foundation's scholarship program directed at fostering the education of future geophysicists in Canada, these two awards complement the previously announced 19 scholarships to 12 undergraduates and 7 MSc candidates. The number and level of the awards reflect the continuing strong support of the Foundation by concerned individuals and organizations across Canada, augmented by the recent major legacy gift from the Colletts. In addition to funding the scholarship program, intensified fundraising efforts are continuing so as to provide supplementary travel bursaries to help awardees attend relevant geophysical symposia organized by KEGS and the BCGS\*.

The **inaugural recipient** of the **Collett Graduate Scholarship** for 2018/19 is Stephen Mosher, who will be continuing his impactful PhD research at the University of Ottawa into crustal tectonics which involves installing and monitoring an array of ocean-bottom seismometers off the active west coast of B.C. and in analyzing observed seismic responses.

The recipient of the **GSC Pioneers Scholarship**, established in 2007 to honour various notable GSC geophysical pioneers\*\*, is Jorge Montegny Parra at the University of Calgary, whose doctoral research is centered on developing improved full wave-form inversion processes to identify and understand changes in intrinsic acoustic parameters related to CO<sub>2</sub> storage.

These scholarships range from \$1,000 to \$3,000, determined by the recipient's merit and need, available funds, and form an important extension of the Foundation's principal objective of supporting undergraduate education. In addition, thanks to continuing generous support by KEGS, the above awardees are also eligible for fully subsidized participation at the annual KEGS Symposium in March and reduced cost to attend a KEGS Geophysical Breakfast during the upcoming academic year. Depending on need and the Foundation's resources, additional assistance with travel expenses up to \$300 may be provided to facilitate recipients' participation at relevant KEGS or BCGS events.

KEGS Foundation

2018 Scholarship Awards

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It is anticipated that these two scholarship awards will be presented this fall in conjunction with KEGS Special Lectures on relevant geophysical topics that are in the process of being arranged by the Foundation at the various universities. The researchers will be encouraged to present their research at KEGS and other relevant forums.

In making the above awards, the Directors acknowledge that it received scholarship applications from a sizable number of very strong PhD candidates who are undertaking important geophysical research or developments, rendering the selection of awardees a very challenging exercise. Consequently, in recognition of their academic achievements and promise of future significant contributions to geophysics, eight runner-up applicants have been designated as Collett Finalists, who are listed on the next page together with their thesis topics. Summaries of the research projects being undertaken by the graduate awardees will be posted on the Foundation's website.

These finalists will also be eligible for subsidized participation in the annual KEGS Symposium funded by the Foundation to advance their general geophysical awareness and facilitate important networking opportunities, with possible assistance with travel costs contingent on additional fundraising. All applicants will also be strongly encouraged to participate in KEGS and/or BCGS meetings or other local professional societies, and in other relevant geophysical meetings or symposia.

The Directors extend their best wishes to the scholarship recipients and other awardees for further success in their studies and future careers. We also offer our gratitude for the continuing support of the Foundation and its scholarship program by the Canadian exploration and geophysical community, including major support by KEGS and the BCGS, a very generous renewed donation by Lamontagne Geophysics, and to Phoenix Geophysics for its continuing support of the matching donation program (see website for further details), as well as the extraordinary legacy gift from Len and Genice Collett received late last year.

We look forward to meeting the latest KEGS Foundation awardees at various upcoming meetings, symposia and KEGS Special Lectures.

Avec nos meilleurs souhaits à tous les lauréats.

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The Foundation extends congratulations to the eight finalists for the Collett Scholarship listed below, with their thesis topics indicated

Name	University	PhD Research Topic
Jorge Monsegny Parra	Calgary	Time-lapse full waveform inversion for carbon capture and storage
Michael Cunningham	Carleton	Development of a rotary-wing UAV instrumented with new high-precision fluxgate magnetometer sensors (tensor)
Robert Wu	McGill	Hydrogeological properties of waste rock with fibre optic cables
Kamal Moravej	Memorial	Better understanding origin of amplitude versus offset (AVO) for exploration purposes
Ligia Elena Jaimes Osorio	Memorial	Inverse problems focus to solve the wave equation in a sub-domain of the subsurface
Theodore Stanoev	Memorial	On homogenization of inhomogeneous anisotropic media
Dong Shi	Toronto	3C 3D seismic exploration for deep mining and mine planning of Athabasca Basin uranium
Jinghan (Cici) Zhong	Toronto	Integration of realistic hydraulic fracturing modelling into reservoir simulation

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\*NB: **KEGS** is the well-known acronym for the Canadian Exploration Geophysics Society, the leading mining geophysics organization established in 1953 and based in Toronto. The **KEGS Foundation** was established as a federally chartered charitable organization in 1999, and has provided more than 250 scholarships to Canadian students since inception. **BCGS** is the abbreviation for the B.C. Geophysical Society, a long-established professional organization based in Vancouver and focused on utilization of geophysics for mineral exploration, which has generously supported the BCGS Scholarship Fund.

\*\*The GSC Pioneers Scholarship, established in conjunction with Exploration '07, honours early geophysical pioneers at the GSC, notably, Larry Morley, Arthur Darnley, Peter Hood, Len Collett, George Palacky and Pat Killeen.

Version française disponible sur le site Web.

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