

CSEG Scholarship Recipients of 2008

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*EnCana Corp., **Nexen Inc., ***Divestco

In 2008, twenty seven companies, trust funds and individuals generously donated at total of \$46,000 to the CSEG Scholarship Committee for distribution as scholarships to deserving students across Canada. Twenty three scholarships worth \$2000 each were given to students pursuing various interests in geophysics. The criteria for receiving a scholarship are enrollment in a program leading to a career or research in exploration geophysics, academic performance, financial need and extra-curricular activities. This article introduces you to the scholarship recipients of 2008. We hope that their pictures and biographies will help you get to know them, and who knows, you may just find yourself working with them one day.

The CSEG scholarship committee and scholarship recipients would like to thank all of the generous sponsors for their contributions in 2008. Your support contributes to the education of the future workforce of exploration geophysicists, as well as the advancement of the field of geophysics through research and education.

2008 Scholarship Donors

Anonymous Donor	\$2000
Apoterra	\$2000
Arcis Corporation	\$2000
Boyd Petrosearch	\$1000
Canadian Natural Resources Ltd.	\$2000
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GEDCO	\$1000
Hampson - Russell	\$2000
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Nexen Inc.	\$2000
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Pengrowth Energy Trust	\$500
Penn West Energy Trust	\$2000
Pulse Data	\$2000
Seisland Surveys	\$500
Sensor Geophysical	\$1000
Sigma Explorations Inc	\$1000
Suncor Energy	\$2000
Zokero Inc.	\$2000
Total	\$38,500

Contributions from the Chris Elms Trust Fund, Ted Popilchak Trust Fund, Bob Won Memorial Trust Fund, and the CSEG Foundation brought the total to \$46,000.

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Alexander Duxbury, M.Sc. at Carleton University sponsored by the Bob Won Trust Fund: My name is Alexander Duxbury and I'm currently working towards a Masters in Geophysics with the Ottawa-Carleton Geoscience Center. My thesis work involves using amplitude variation with offset and azimuth techniques to detect fracturing in thin layers, specifically the sealing unit of the Weyburn field in Saskatchewan. In past summers I installed seismometers in INCO's Sudbury mines as part of the Polaris project and performed shallow seismic surveys for earthquake hazard studies. Recently I completed a B.Sc. Honours thesis in Geophysics at Carleton University focusing on 2D seismic reflection processing and interpretation over a VMS mine site in Flin Flon, Manitoba. This past summer I worked on structural interpretation and seismic modeling for Husky Energy with the Foothills exploration group. I'm looking forward to pursuing a career in exploration geophysics, particularly in frontiers, offshore and international exploration.

Brendan Smithyman, M.Sc. at the University of British Columbia sponsored by an Anonymous Donor: Brendan Smithyman is a Masters candidate at the University of British Columbia, studying exploration seismology. In particular, he is working to apply waveform tomography techniques to refracted arrivals from 2D land seismic data. Brendan is involved in several teaching and learning projects, with an interest in geoscience teaching prospects as well as research opportunities. He lives in Vancouver with his wife.

Clinton Keller, B.Sc. at the University of Saskatchewan sponsored by Zokero Inc: My love of the outdoors and my passion for physics and mathematics has naturally led me to geophysics. I am currently an undergraduate at the University of Saskatchewan where I am pursuing an Honours degree in Geophysics. I have been fortunate enough to work in industry for the past two summers, where I have gained invaluable knowledge about exploration geophysics. After graduation I plan to work as an exploration geophysicist, and after I gain some work experience, I may return to university to complete a Master's Degree. I would like to thank Zokero Inc. and the CSEG for their generous support.

Conrad Koziol, B.Sc. at the University of British Columbia sponsored by Matrix Geoservices Ltd: I am a third year Honours Geophysics Student. Academically, I am interested in the mathematics and physics employed by various models and processing techniques. During the summer I work with UBC Glaciology, participating in both field work and modeling efforts. Specifically, I am learning about GPS and instrumentation. For the short term I plan to continue on in academia, before pursuing a career in industry. My free time is spent hiking, scrambling, and cycling as well as volunteering as an executive for the UBC outdoors club.

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Dennis Rippe, Ph.D. at the University of Alberta sponsored by the Chris Elms Trust Fund: Originally being from Germany I received my Diploma in Physics from the Georg-August-Universität Göttingen in 2006. In 2007 I moved to Canada to pursue my Ph.D. at the University of Alberta under the supervision of Dr. Martyn Unsworth. My research is part of the International Deep Profiling of Tibet and the Himalaya project, a multidisciplinary collaboration to study the structure and evolution of the Tibetan plateau. Within this project my work is focused on imaging the lithospheric structure in northern Tibet using the magnetotelluric method and on deriving a resistivity model that will allow us to distinguish between the possible tectonic processes active in this region. In addition to my research on continent-continent collisions I am also interested in exploration and environmental geophysics and the application of electromagnetic methods in these fields. In my spare time I enjoy playing rollersoccer and singing in the University of Alberta Mixed Chorus. I am also a member of Baking 4 Benefit, a volunteer group supporting local charities through bake sales.

Heather Connory, M.Sc. at the University of Toronto sponsored by Sensor Geophysical Ltd. and GEDCO:

Jane Simmons, B.Sc. at the University of New Brunswick sponsored by Devon Canada Corporation: Jane Simmons is graduating from Geological Engineering at the University of New Brunswick. This year she is the president of UNB's Chapter of Engineers Without Borders. She has been an active volunteer with Quest 4, a science club for elementary school girls, and Habitat for Humanity. She has worked on several near surface hydro-geophysics projects in 3 provinces in Canada and is looking forward to pursuing a masters degree in this subject. One day she hopes to have a career related to drinking water security and management in rural areas of Canada and in developing countries.

Jeff Samson, M.Sc. at the University of Alberta sponsored by Pulse Data Inc.: I am currently pursuing a M.Sc. in the Department of Physics at the University of Alberta, Edmonton, Canada. During my tenure at the University of Alberta, my interests in geosciences has led me from obtaining an undergraduate degree in Geology to expanding into the more quantitative geophysics discipline at the post-graduate level. In particular, the main topic of my research entails a paleomagnetic study of rocks in northwest Scotland. I am aiming to use the magnetic properties of rocks to discern the ancient (ca. 2.4 Ga) position (paleolatitude) of a fragment of Achaean-aged crust presently located in northwest Scotland. On top of my research, I am also enrolled in numerous classes comprising such topics as geophysical exploration techniques and modeling, rock physics, environmental paleomagnetism, and global geodynamics. Some of my other academic interests include using the magnetic properties of rocks to correlate and identify stratigraphic units, which I feel it is a powerful yet commonly underused tool in industry. I've enjoyed my time as a Graduate student but I eagerly await a career as a geoscientist in the oil and gas industry. Throughout my studies I have been continually growing my academic knowledgebase in both geology and geophysics in hopes of becoming a well rounded professional within the industry. I sincerely thank the CSEG Scholarship Committee for recognizing these efforts. Thank you.

Jennifer Fohring, B.Sc. at the University of British Columbia sponsored by Nexen Inc.: I am currently completing a BSc H. in Geophysics at the University of British Columbia in order to pursue a career in exploration geophysics. I am also planning on attending graduate school on completion of my degree. This coming summer I will be working on a glaciology research project with the department of Earth and Ocean science. After completing an associate degree in physics and several years spent working and travelling I found myself drawn back to university with an interest in geophysics as it combines physics, natural processes, and the ability to work and travel in all sorts of environments. I also spend time hiking, surfing, and refurbishing anything from the 50's.

Jessa-Lyn Langroix, B.Sc. at the University of Alberta sponsored by Hampson-Russell Software Services Ltd.: Jessa-lyn is currently an undergraduate geophysics student at the University of Alberta. She plans to graduate in April of this year and is excited to join the oil and gas work force in Calgary after taking a 3 week trip to Egypt. Jessa-lyn is treasurer of the Geophysics Undergraduate Society at the U of A, and is on the student leadership team of another student group called Athletes in Action. She also loves to run, plays clarinet in a community concert band, and enjoys rock climbing.

Johnathan Rigg, B.Sc. at the University of Waterloo sponsored by the Popilchak Trust Fund: My name is Jon Rigg and I am a fourth year undergraduate geophysics student at the University of Waterloo. My work within geophysics began last summer as a geophysical research assistant for Professor Anthony Endres at the University of Waterloo. I assisted with his research modeling the hysteretic effects of soil moisture. My current academic interests are exploring the uses of geophysical techniques within structural geology. Other areas I am interested in are ore body genesis and tectonics. I am currently looking into masters programs in these areas. My academic interests transcend into my personal life where I enjoy exploring the local geology through a variety of outdoor activities. Upon graduation I wish to work towards obtaining my Professional Geoscientist designation. I am looking into careers involving mineral exploration which integrate my geophysical and geological interests. Thank you CSEG for your support!

Joshua Ulla, M.Sc. at Carleton University sponsored by EOG Resources: Josh completed his honours degree in Mathematics in April of 2007 and is presently pursuing a Masters in Geophysics in the Earth Sciences Department at Carleton University. His project is an NSERC IPS funded thesis in partnership with Fugro Airborne Surveys. In this, he is using the magnetic field's homogeneous properties to solve for both the horizontal positions and vertical depths of ore bodies through the Source Location Using Total-field Homogeneity (SLUTH) method. When Josh gets a break from his studies he normally uses it to try a new sport or to travel to a new destination. He hopes to be able to merge his passion for geophysics and his love for travel when finding a future career in the geophysical industry.

Jiupeng Yan, M.Sc. at the University of British Columbia sponsored by Sigma Exploration Inc., Pengrowth Energy Trust and SeisLand Surveys Ltd.: My current research interests are seismic noise separation, numerical modeling, seismic interferometry and seismic inversion problems. In my spare time, I like reading, watching movies and playing billiard. My aspiration is to become a successful research geophysicist.

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Jun-Wei Huang, Ph.D. at the University of Toronto sponsored by EnCana Corporation: After I received my Honors B.Sc. from Peking University, I pursued a M.Sc. at the University of Toronto with Dr. Bernd Milkereit, focusing on seismic scattering in the presence of, e.g., massive sulfides and gas hydrates. After that I had a great interest in gas hydrates and decided to pursue a Ph.D. I am now working on stochastic reservoir modeling and expect to receive the doctoral degree in 2009. After graduation I aim to be a research oriented geoscientist involved in reservoir geophysics, actively publishing articles, participating in conferences and field trips. When I am out of my office you will find me eating in another new restaurant, playing squash in a gym, or practicing speeches at a Toastmaster™ club.

Kenny Kocou, B.Sc. at the University of Alberta sponsored by Canadian Natural Resources Inc.: "I must admit I'm a nerd. Academically I enjoy math, geology, and especially programming. Personally, I enjoy athletics such as kickboxing and I am a movie pack rat. Currently my collection includes about 250 titles. Beyond this, my girlfriend Siobhan is a very important part of my life now and hopefully always. In terms of career aspirations, I strive for an outstanding career working with outstanding people at a major oil and gas company. This is an end which I am currently pursuing actively."

Kevin Bianchini, B.Sc. at the University of Alberta sponsored by Apoterra Seismic Processing: I am a fourth year student in the Honors Geophysics program at the University of Alberta. My academic success is made possible by my wife Jenn and not so possible by our two sons Kyan and Tristan. We are all very grateful for this recognition. I look forward to a career in geophysics and hope to pursue graduate studies in the future.

Madeline Lee, Ph.D. at the McMaster University sponsored by Divestco Inc.: I am presently a Ph.D. candidate at McMaster University, in Hamilton, Ontario under the supervision of Dr. W. A. Morris. My research focuses on potential Iron Oxide Copper-Gold deposits in Canada's North on behalf of the Remote Predictive Mapping Program (Geological Survey of Canada). In the past, my primary research has been on potential field modelling and understanding the limitations associated with geophysical processing methods. I have had the opportunity to present my research at Exploration 07, KEGS Symposium 2008, and SEG Annual Meeting 2008. I have also had the privilege to work with some of Canada's Senior Exploration companies including Vale Inco Ltd. and Xstrata Nickel. Aside from research, my personal interests include most outdoor activities, especially kayaking and skiing. I am also an active member of the Girl Guides of Canada, where I am a Leader for a Hamilton Pathfinder Unit.

Natalya Gomez, M.Sc. at the University of Toronto sponsored by Boyd PetroSearch and OYO GeoSpace Canada Inc.

Patrick van-Kooten, M.Sc. at Queens University sponsored by Dr. Larry Lines (University of Calgary) and the CSEG Foundation: I came to geophysics looking for a way to contribute to the growing challenges in exploration by applying my background in mathematics, astrophysics and applied statistics in which I hold a B.Sc., B.Sc. (Hons) and M.Sc. respectively. My past research has tackled problems from the microscopic to the cosmic including particle/nuclear astrophysics, applied electromagnetics and time series analysis. This diverse scientific background turned out to be an excellent lead-in to my current studies, which focus on seismic imaging, seismic modeling and (full waveform) inversion. In addition, I have made sure to expand my geophysical horizons through fieldwork employing seismic as well as geoelectrical, magnetic and gravity methods. I look forward to using my skills to make a tangible contribution as a professional exploration geophysicist upon completion of my studies. Outside of my scientific endeavors, I enjoy team sports (E.g., soccer), the visual arts and community service. I have a big soft spot for dogs, especially for my two beagles Kelvin and Celsius.

Raymond Caron, B.Sc. at Carleton University sponsored by Arcis Corporation: Raymond enjoys travelling and learning new cultures and skills. He's currently working on learning Japanese and the electric guitar as well as improving his SCUBA diving certification. This summer he will be starting a masters program relating to the implementation of magnetic surveying using unmanned aerial vehicles at Carleton University. Raymond is dedicated to the study of both geology and geophysics and believes that both tools will be essential in the future.

Ryan Segstro, B.Sc. at the University of Calgary sponsored by Penn West Energy Trust: I am 24 years old and I am entering my fourth year of the Geophysics Honors program at the University of Calgary. When I graduate in December of 2009, I hope to find a position in the oil and gas industry in Calgary. At school I am most interested in the characterization of unconventional reservoirs and understanding techniques to enhance the recoverability of a reservoir. In my personal time I like to run long distance races and fish recreationally throughout Western Canada.

Shannon McCabe, B.Sc. at the University of Calgary sponsored by Suncor Energy Foundation: Shannon is a fifth year student at the University of Calgary, majoring in Geophysics. She also has a minor degree in Applied Mathematics. Shannon enjoys reading, hiking, and off-roading. Academically, she is anticipating completing her Master's Degree in Geophysics in the future. She enjoys putting a lot on her plate, and working hard to accomplish everything. Recently engaged, Shannon is looking forward to a wedding, her graduation, and beginning her career in Geophysics by hopefully being accepted as a summer intern...all in 2009!

Tiffany Piercey, B.Sc. at Memorial University sponsored by Kelman Technologies Inc. R