

2009 Student Research Grant Awards

The Society of Economic Geologists Foundation (SEGF) and the SEG Canada Foundation (SEGCF) are pleased to announce the Student Research Grant awards for 2009. Ninety-seven applications were received; SEGF awarded 42 grants for a total US\$ 100,000. The SEGCF awarded 13 additional grants for CDN\$ 34,500.

These grants will assist students with field and laboratory expenses for thesis research on mineral deposits as required for graduate degrees at accredited universities. Grants are awarded on a competitive basis and are available to students worldwide.

This year's successful candidates attend 30 different universities in 10 countries distributed as follows: United States – 19, Canada – 18, Australia – 9, Great Britain – 2, Argentina – 2, and one each from Germany, Hungary, Russia, Spain and Sweden.

The awards are listed in the following format: grant recipient, dollar amount (in U.S. dollars except for SEG Canada awards, which are in Canadian dollars), university, degree, and research topic:

Hugh E. McKinstry Student Research Awards are granted to students whose projects involve studies of mines or ore districts; topical studies toward improved understanding of ore genesis; and experimental research in field applications. This year's 30 recipients:

- **Jonathan Bachtel**, \$2,000, University of Ottawa, M.S.; Stable and radiogenic isotopic study of zircons, Abitibi subprovince, Canada.
- **Isaac Corral**, \$3,000, Universitat Autònoma de Barcelona Spain, PhD; Cerro Quema Au-Cu high-sulfidation system, Panama.
- **Sophie M. Fielder**, \$2,000, University of Leicester, M.S.; The potential of travertines in exploration for epithermal gold deposits.
- **Nathan Fox**, \$2,600, University of Tasmania, PhD; Controls on alteration and mineralization, Cadia Au-Cu deposit, NSW, Australia.
- **Benedek Gal**, \$3,000, Eotvos Lorland University Budapest Hungary, PhD; Model for Cu-Ni-PGE mineralization, south Kawishiwi intrusion, Minnesota.
- **James D. Girardi**, \$2,750, University of Arizona, PhD; Field and Sr-isotope study of brine-dominated alteration, coastal batholith, Copiapo, Chile.
- **Michael J. Kallstrom**, \$2,000, University Texas, Austin, M.S., M.S.; Origin of native silver mineralization, Batopilas district, Chihuahua, Mexico
- **Douglas C. Kreiner**, \$3,000, University of Arizona, PhD; Hydrothermal alteration and mineralization in mining districts of northern Chile.
- **Alina V. Kuptsova**, \$3,000, St. Petersburg State University, Russia, M.S.; Sequential dissolution in U-sandstone deposits and basement rocks, Russia.
- **Mark A. Leatherman**, \$2,000, University of Missouri, Columbia, USA, M.S.; Geochemical and isotopic analysis; and modeling the Beowawe geothermal field, Nevada.

- **Julie E. Leibold**, \$2,000, Colorado School of Mines, PhD; Development of new exploration techniques for uranium roll-front deposits.
- **Brandon Lewis**, \$2,000, Colorado School of Mines, M.S.; Geology of the Toboggan Au-Te prospects, Shoshone County, Idaho.
- **Luciano Lopez**, \$2,000, Universidad Nacional de La Plata, Argentina, PhD; Geology and metallogenesis, Purisima-Rumicruz district, Jujuy Province, Argentina.
- **Angela C. Marshall**, \$2,000, University Wollongong Australia, Honours; Genesis of the Wanmunna Marra Mamba iron ore deposits, Hamersley Basin, Western Australia.
- **Scott A. McFadden**, \$3,000, Iowa State University, M.S.; Origin of nodular sillimanite rocks and relationship to Cu-Zn deposits, Colorado.
- **Janina Micko**, \$2,000, University of British Columbia, Canada, PhD; Geology of Central Zone alkalic Cu-Au porphyry deposit, Galore Creek, Canada
- **Nicola Mitchell**, \$2,000, James Cook University, Australia, Honours; Tectonic controls on kimberlite emplacement in northern Australia.
- **David R. Mole**, \$3,000, University of Western Australia, PhD; Melt-lithosphere interactions: understanding Ni mineralization, Archaean Yilgarn craton.
- **Erik Nordfeldt**, \$2,000, Stockholm University, Sweden, M.S; Sources of metals and fluids in orogenic gold deposits.
- **James R. Pape**, \$2,000, University of Arizona, USA, M.S.; Reconstruction of Middle and Late Tertiary extension, Elko-Carlin region, Nevada
- **Anita K. Parbhakar**, \$2,000, University of Tasmania, Australia, PhD; Predictive environmental mineralogy and geochemical techniques.
- **Remigio Ruiz**, \$2,000, Universidad Nacional de La Plata, Argentina, PhD; Geology and mineralization, SW Deseado massif, Santa Cruz, Argentina
- **Julia Rutkowski**, \$3,000, Berlin Free University, Germany, PhD; Shallow seawater hydrothermal systems, Tonga-Kermadec island arc.
- **Saeed Saadat**, \$2,000, University of Colorado, USA, PhD; Field and laboratory study of Neogene volcanism and mineral deposits in eastern Iran.
- **Adam T. Simmons**, \$2,000, University of British Columbia, Canada, PhD; Geochemical evolution of porphyry intrusion and Cu-Mo porphyry deposits, Quellaveco, southern Peru.
- **William A. Starkel**, \$2,000, Washington State University, USA, PhD; Geology of the mid-Miocene McDermitt volcanic complex, northern Nevada.
- **Elizabeth D. Stock**, \$3,000, University of British Columbia, Canada, PhD; Geochemical and mineralogical footprints, Red Lakes gold mines, Ontario, Canada.
- **Greg W.H. van Hees**, \$2,000, University of Ottawa, Canada, M.S.; 3-D geometry of the Lundberg zone, Buchans, Newfoundland.
- **Victoria H. Vry**, \$2,000, Imperial College of London, PhD; Metal transport and deposition in a supergiant porphyry-copper deposit, El Teniente, Chile.
- **Zach J. Wenz**, \$2,000, University Missouri Columbia, USA, PhD; Geochemical groundwater modeling, Mississippi Valley type Pb-Zn Deposits.

Newmont Student Research Grants are awarded to facilitate economic geology research, with a primary interest in gold. The six recipients for 2009 are:

- **Lindsey V. Clark**, \$1,000, University of Tasmania, Australia, PhD; Geology of the Kencana epithermal Au-Ag deposit, Indonesia.
- **Andrew Fornadel**, \$4,000, Iowa State University, USA, M.S.; Fluid inclusion and stable isotope geochem of an intrusion-related Bi-Te-Pb-Sb-Au deposit
- **Michael J. Kirschbaum**, \$3,500, Colorado School of Mines, USA, M.S.; Geologic character of the Guelb Moghrein Iron Oxide-Cu-Au deposit, Mauritania
- **Takayuki Manaka**, \$3,000, University of Tasmania, Australia, PhD; Geology of Au mineralization at Phuoc Son goldfield, central Vietnam
- **Rachel M. Repprecht**, \$1,500, Univ of No Carolina, USA, M.S.; Petrography and origin, Cu-Au-Mo mineralization and associated host rocks, N. Carolina
- **Qingtao Zeng**, \$2,000, University of Western Australia, PhD; Geochronological study on the Liba gold deposit, central China.

Alberto Terrones L. Fund awards are to provide financial support to students from Latin American countries that are pursuing graduate studies for a M.S. or PhD degree in the United States or Canada. The two recipients for 2009 are:

- **Jaime Andrés Poblete**, \$1,500, University of British Columbia, Canada, M.S.; Geology, geochronology and structure, Cerro Bayo epithermal district, Chile
- **Carlos A. Vargas**, \$2,000, New Mexico Tech, USA, M.S.; Assessment of deep hypogene alteration mineral distribution, Los Bronces, Chile

The Hugo Dummett Mineral Discovery Fund supports applied economic geology research, including the development of new exploration technology and techniques, and the dissemination of related results. This year's three recipients are:

- **Jack V. Gibbons**, \$3,000, Colorado School of Mines, USA, M.S.; Vectors to ore, Hoyle Pond deposit, Porcupine gold camp, Timmons, Ontario.
- **Mark D. Lindsay**, \$2,500, Monash University, Australia, PhD; quantifying geological uncertainty during 3D geological modeling.
- **Elizabeth R. Sharman**, \$2,000, McGill University, Canada, PhD; Developing VMS exploration vectors: tracing hydrothermal plume particulate distribution.

The Hickok-Radford Grants are awarded to support field-based research as applied to exploration for metallic mineral deposits, for projects located in Alaska, northern Canada and other regions north of Latitude 60 North, or projects at very high elevations elsewhere. The recipient for 2009 is:

- **Chris R. Siron**, \$4,000, Colorado School of Mines, USA, M.S.; Geology of the LWM massive sulfide carbonate-hosted replacement deposit, Alaska

SEGF Canada Foundation Awards support study of Canadian mineral deposits or mineralized regions, research at Canadian universities, or Canadian students studying at foreign universities. Grants listed are in Canadian dollars. This year's 13 recipients are:

- **Nelson F. Bernal**, \$1,500, University of Alberta, Canada, PhD; Halogen and chlorine stable isotopic composition of mineralizing fluids, Zambian copper belt.
- **Stephanie M. Boucher**, \$3,000, University of Ottawa, Canada, M.S.; Geology of the West Ansil volcanic-hosted massive sulfide deposit, Noranda, Quebec
- **Suzanne Byron**, \$2,500, University of Alberta, Canada, PhD; Giant quartz veins of the Great Bear magmatic zone, NW Territories, Canada
- **Taryn Gray**, \$4000, St. Mary's University, Nova Scotia; Late Paleozoic felsic volcanic rocks in southern New Brunswick & related uranium mineralization.
- **Shawn B. Hood**, \$3,000, University of Alberta, Canada, PhD; High-grade hydrothermal copper in foliated granites, Minto Cu-Au deposit, Yukon.
- **Ali Imer**, \$1,500, University of Alberta, Canada, PhD; Geology and geochemistry, Copler porphyry-epithermal deposit, Turkey.
- **Gideon Lambiv-Dzemua**, \$3,500, University of Alberta, Canada, PhD; Controls on the Nkamouna Co-Ni-Mn formation.
- **Yanan Liu**, \$2,000, University of Toronto, Canada, PhD; Partitioning of precious and semi-metals between silicates, sulfides and arsenides
- **Stephanie Mrozek**, \$3,500, University of Alaska, USA, M.S.; Geology of the Mike Lake Au-Cu skarn deposit, Yukon Territory, Canada.
- **Joshua Mukwakwami**, \$2,000, Laurentian University, Canada, PhD; Structural controls of Ni-Cu-PGE ores and mobilization of metals, Garson mine, Sudbury.
- **Abdul Razique**, \$3,000, University of British Columbia, Canada, PhD; Genesis of Reko Diq porphyry Cu-Au deposits, Chagai district, Belochistan, Pakistan.
- **Amanda D. Smith**, \$2,000, University of Missouri, USA, M.S.; Geochemistry of gold and base-metal mineralization, Yellowknife greenstone belt, NWT, Canada
- **Gabriel Sweet**, \$3,000, Lakehead University, Canada, M.S.; The Black Mountain porphyry Cu-Au deposit, Baguio mineral district, Philippines.