

Senate Research Report

March 19, 2013

Awards and Honours

- Dr. Jeanette Holden (Psychiatry) has also been honoured, posthumously, with a Queen Elizabeth II Diamond Jubilee Medal for her work as one of the country's leading autism researchers and an advocate for people with disabilities.
- Dr. Richard Reznick (Dean of Health Sciences) has been honoured with the 2013 James H. Graham Award of Merit. The national award recognizes outstanding achievements by physicians and surgeons that reflect the objectives of the Royal College of Physicians and Surgeons of Canada.

Research Funding

Access Consulting

- Dr. Heather Jamieson (Geological Sciences and Geological Engineering): \$32,688 for *Stability testing of precipitate from No Cash Creek, Yukon, Canada.*

Canadian Cancer Society

Canadian Cancer Society Research Institute

- Dr. Stephen Hall (Otolaryngology): \$153,029 over three years for *Towards an effective policy on routine follow-up for patients after curative treatment of head and neck cancer.*

Natural Sciences and Engineering Research Council of Canada (NSERC)

Collaborative Research and Development Grant

- Dr. Pascale Champagne (Civil Engineering): \$128,558 for *Passive constructed wetlands and small municipal wastewater systems.* Sponsor: The Corporation of Loyalist Township, \$64,284 (cash) and \$133,100 (in kind).
- Dr. Gabriel Ciccarelli (Mechanical and Materials Engineering): \$40,000 for *Detonation sensitivity of liquid fuels.* Sponsor: Martec Limited, \$20,000 (cash) and \$20,000 (in kind).
- Dr. Simon Hesp (Chemistry): \$160,000 for *Effect of warm mix additives on asphalt cement, asphalt rubber and asphalt mixture quality and durability.* Sponsor: Imperial Oil Ltd., \$60,000 (cash) and \$60,000 (in kind). Sponsor: Akzo Nobel Chemicals Ltd., \$20,000 (cash) and \$20,000 (in kind).

- Dr. Kerry Rowe (Civil Engineering): \$53,539 for *Leakage through a hole in a geomembrane liner for tailings dams*. Sponsor: Klohn Crippen Berger, \$28,571 (cash) and \$25,000 (in kind).

Natural Sciences and Engineering Research Council of Canada (NSERC)

Engage Grant

- Dr. Brian Frank (Electrical and Computer Engineering): \$25,000 for *Multi-bank 60GHz VCO with selectable VCO band/gain for optimal phase noise performance*. Sponsor: Peraso Technologies Inc., \$55,000 (in kind)
- Dr. Juergen Dingel (School of Computing): \$25,000 for *Compositional specification and analysis of RTEdge models*. Sponsor: Edgewater Computer Systems, Inc., \$42,600 (in kind).

Natural Sciences and Engineering Research Council of Canada (NSERC)

PromoScience Program

- Dr. Duncan Cree (Civil Engineering): \$90,000 for *Aboriginal Access to Engineering Program (AAEP)*.

Natural Sciences and Engineering Research Council of Canada (NSERC)

Strategic Projects Grant

- Dr. Cathleen Crudden (Chemistry): \$270,000 for *Eliminating hazardous chemicals in key processes in the pharmaceutical sector*. Sponsor: Piramal Healthcare (Canada) Limited -- \$32,640 (in kind). Sponsor: BASF Corporation -- \$30,840 (in kind).
- Dr. Michael Cunningham (Chemical Engineering): \$329,820 for *Advanced polymer colloids from ring opening metathesis polymerization (ROMP) in water*. Sponsor: Xerox Research Centre of Canada -- \$34,992 (in kind).
- Dr. Hossam Hassanein (School of Computing): \$471,500 for *Engaging vehicles in ubiquitous service networks*. Sponsor: Intelligent Mechatronic Systems Inc. -- \$231,000 (in kind).

Networks of Centres of Excellence of Canada

BioFuelNet

- Dr. Warren Mabee (Geography): \$22,500 for *BFN funding towards HQP training and SEES theme support*.

Research News

- In early January, Inquiry@Queen's and the Centre for Teaching and Learning (CTL) announced an opportunity for selected undergraduate students to participate in the Matariki Undergraduate Research Network (MURN) International Collaborative Program, which aims to connect undergraduate researchers from international locations to help them develop their knowledge, skill and understanding of research. Students are from: University of Western Australia (UWA); University of Otago, New Zealand; Durham University, United Kingdom; and Queen's. Currently, Queen's has six third-year undergraduate participants in the program, whose home departments are Engineering Physics, Biochemistry, DEVS, English, Classics and History.
- Dr. Susan Cole (Pathology and Molecular Medicine) is the first-ever Researcher-in-Residence at PARTEQ Innovations, the technology transfer arm of Queen's University. The former Queen's Deputy Provost and PARTEQ board member will help mentor and assist researchers in the life sciences who are considering protecting their discoveries for the purpose of commercialization.
- A new partnership was announced between Newterra Ltd., a global leader in sustainable water treatment, and Dr. Bruce Anderson, Queen's professor of civil engineering. A grant of \$68,798, provided by FedDev Ontario's Applied Research and Commercialization Initiative, will be used to develop a new water filtration technology that could provide more renewable energy to power wastewater treatment systems.