Senate Research Report

February 12, 2013

Awards and Honours

Dr. David Murakami Wood (Sociology and the Surveillance Studies Centre), has been awarded a Japan Society for the Promotion of Science (JSPS) Invitation Fellowship for the project, 'Surveillance in the Global City: the Case of Tokyo.' He will be working with Professor Kiyoshi Abe of Kwansei Gakuin University.

Dr. Richard Reznick (Dean of Faculty of Health Sciences) has been honoured with the 2013 James H. Graham Award of Merit from the Royal College of Physicians and Surgeons of Canada.

Research Funding

Canada Foundation for Innovation (CFI)
Leading Edge Fund/New Initiatives Fund (LEF/NIF)

- Dr. Amir Fam (Civil Engineering): $1,390,000 Leading Edge Fund for *Moving load facility for assessment of bridge strength and durability.*
- Dr. Art McDonald (Physics, Engineering Physics and Astronomy): $1,345,285 Leading Edge Fund for *Leading the search for dark matter and double beta decay: Improved discovery potential for DEAP-3600 and SNO+ experiments.*
- Dr. Ian Moore (Civil Engineering): $1,220,000 Leading Edge Fund for *Deterioration and long term performance of buried infrastructure*.
- Dr. Doug Munoz (Biomedical and Molecular Sciences): $1,768,662 Leading Edge Fund for *Enhancement and development of new assessment tools for evaluation of brain function and dysfunction.*
- Dr. Wolfgang Rau (Physics, Engineering Physics and Astronomy): $1,709,500 New Initiatives Fund for *SuperCDMS at SNOLAB: Uncovering the mysteries of the Universe.*
- Dr. Stephen Vanner (Medicine): $1,197,245 Leading Edge Fund for *Human laboratory for the study and treatment of gastrointestinal disorders.*

Public announcement January 15, 2013

Canada Foundation for Innovation
Major Science Initiatives

- Dr. Nigel Smith (Physics, Engineering Physics and Astronomy): $22,606,524 for *SNOLAB.*

Public announcement January 22, 2013

Natural Sciences and Engineering Research Council of Canada (NSERC)
Collaborative Research and Development Grant

- Dr. Kim McAuley (Chemical Engineering): $46,200 for *Mathematical modeling of coke formation in thermal cracking units.* Sponsor: NOVA Chemicals Corporation – $24,000 (cash) and $101,000 (in kind).

Natural Sciences and Engineering Research Council of Canada (NSERC)
Idea to Innovation

- Dr. Gabor Fichtinger (School of Computing): $192,976 *Intraoperative registration of ultrasound to fluoroscopy (iRUF).* Sponsor: Precision Therapeutics Inc -- $126,000 (cash) and $199,000 (in kind).

Shimano Canada Ltd.

- Dr. Bruce Tufts (Biology): $12,000 for *Eastern Lake Ontario bass project*.

Southern Ontario Smart Computing Innovation Platform (SOSCIP):
A new research and development initiative funded by IBM Canada

The following Queen's researchers will have access to state-of-the-art computing resources:

- Dr. Dongmei Chen (Geography)
- Dr. Mohammad Zulkernine (School of Computing)
- Dr. Douglas Mewhort (Psychology)
- Dr. Mohamed Ibnkahla (Electrical and Computer Engineering)
- Dr. Hossam Hassanein (School of Computing)

Research News

Recently, two spinoff pharmaceutical companies that were created out of research at Queen's have been acquired by multinational corporations.

- On November 8, 2012, PARTEQ's oldest spinoff company, DUSA Pharmaceuticals, was acquired by Sun Pharmaceutical Industries of India. Founded in 1991, DUSA brought to market ground-breaking research into the use of light to treat cancer by two scientists, Dr. James Kennedy (Queen's) and Dr. Roy Pottier (RMC).
- On January 8, 2013, Cytochroma Inc., a Markham-based pharmaceutical company focused on developing drugs to treat and prevent the effects of chronic kidney disease (CKD), was acquired by OPKO Health of Miami. Cytochroma was founded in 1996 by PARTEQ Innovations, the university's technology transfer office, on the vitamin A and vitamin D research of Dr. Martin Petkovich and Dr. Glenville Jones.