

Senate Research Report

September 25, 2008

Awards and Honours

- Dr. Susan Cole (Pharmacology and Toxicology) was selected as the recipient of the 2008 Pfizer Senior Scientist Award from The Pharmacological Society of Canada.
- Dr. Janet Hiebert (Political Studies) was awarded the SSHRC Bora Laskin National Fellowship in Human Rights Research to support her research entitled *Legislative Compliance with the Canadian Charter*. The award value is \$45,000, and Dr. Hiebert will receive an additional \$10,000 research allowance from SSHRC.
Publicly announced May 8, 2008
- Dr. John Smol (Biology) and his brother Dr. Jules Blais (University of Ottawa) were named the 2008 Environmental Scientists of the Year by the Royal Canadian Geographical Society.
Publicly announced May, 2008
- Dr. William Newstead (Chemistry) was chosen as the 2008 recipient of the prestigious Chancellor A. Charles Baillie Teaching Award.
- Dr. Cathy Cahill (Pharmacology and Toxicology, Canada Research Chair in Chronic Pain), is one of eight Canadian researchers to receive a prestigious Pfizer Canada Neuropathic Pain Research Award.
Publicly announced May 29, 2008
- Internationally renowned Queen's economist Dr. Robin Boadway has been named in Officer of the Order of Canada.
Publicly announced July 1, 2008
- Dr. James Cordy (School of Computing) is a recipient of the 2008 IBM International Faculty Award.
Publicly announced July, 2008

Early Researcher Awards (Ministry of Research and Innovation)

- Dr. Hagit Shatkay (School of Computing), *Translating Data into Knowledge: From biomedical text and sequence data to disease prediction and prevention*
- Dr. James Stotz (Physics), *Acoustic modulation of quantum dots for quantum information processing*

These awards were approved for \$100,000 each, plus ERA awarded an additional \$40,000 each for indirect costs to Queen's.

Publicly announced August 14, 2008

Royal Society of Canada

- Dr. Agnes M. Herzberg (Mathematics and Statistics) has been appointed a Specially Elected Fellow of the Royal Society of Canada.
- Dr. David Lyon (Sociology) has been selected as a new Fellow of the Royal Society of Canada.
- Dr. John Smol (Biology) has been selected as the 2008 recipient of the Flavelle Medal by the Royal Society of Canada.
- Dr. Christine Overall (Philosophy) has been selected as the 2008 recipient of the Award in Gender Studies by the Royal Society of Canada.

Publicly announced September 5, 2008

Research Funding Awarded

CFI Leaders Opportunity Fund (for Canada Research Chairs):

- Dr. Paul Grogan (Biology), *The ecology of arctic ecosystems and their sensitivity to climate change*, \$50,000

Publicly announced June 10, 2008

Canada Research Chairs:

- Dr. Paul Grogan (Biology) – *Tier 2 Renewal* - Canada Research Chair in Climate Change and Northern Ecosystems, \$100,000/year for 5 years
- Dr. Laura Cameron (Geography) - *Tier 2 Renewal* - Canada Research Chair in Historical Geographies of Nature, \$100,000/year for 5 years
- Dr. Michael Dorris (Physiology) - *Tier 2 Renewal* - Canada Research Chair in Neural Control of Decision Making, \$100,000/year for 5 years
- Dr. Amir Fam (Civil Engineering) - *Tier 2 Renewal* - Canada Research Chair in Innovative and Retrofitted Structures, \$100,000/year for 5 years
- Dr. Praveen Jain (Electrical and Computer Engineering) - *Tier 1 Renewal* - Canada Research Chair in Power Electronics, \$200,000/year for 7 years
- Dr. Philip Jessop (Chemistry) - *Tier 2 Renewal* - Canada Research Chair in Green Chemistry, \$100,000/year for 5 years
- Dr. Ian Moore (Civil Engineering) - *Tier 1 Renewal* - Canada Research Chair in Infrastructure Engineering, \$200,000/year for 7 years
- Dr. Nikolaus Troje (Psychology) - *Tier 2 Renewal* - Canada Research Chair in Vision and Behavioural Science, \$100,000/year for 5 years

Publicly announced June 10, 2008

CIHR Operating Grants:

39 applications submitted and 3 were successful with a 4th being awarded a one-year grant for a 10% success rate. Total funding was \$ 2,481,606.

- Dr. Anne Croy (Anatomy and Cell Biology) has received \$770,357 over 5 years for her work entitled, *Evaluation of natural killer cell contributions to the known, elevated risks for maternal and fetal pathologies in diabetic pregnancy.*
- Dr. Ian Janssen (Community Health and Epidemiology) has received \$91,166 for one year for his work entitled, *Obesity and unintentional injury in Canadian populations.*
- Dr. Zongchao Jia (Biochemistry) has received \$802,825 over 5 years for his work entitled, *EF-hand proteins and calcium-mediated modulation.*
- Dr. Tom Massey (Pharmacology and Toxicology) has received \$817,258 over 5 years for his work entitled, *Biotransformation and molecular toxicity of pulmonary carcinogens.*

CIHR Meetings, Planning and Dissemination Grant:

- Dr. Margaret Harrison, School of Nursing, has received \$7,500 for a Knowledge Translation Grant entitled *Turning knowledge into action at the point of care: Facilitation as an intervention.*

Heart and Stroke Foundation, Grant-in-Aid Competition (2007)

Eight applications were submitted and the following six were successful:

- Dr. Michael Adams (Pharmacology and Toxicology), *Antihypertensive treatment strategies in the management of sexual dysfunction*, \$95,533 over 3 years
- Dr. Steven Iscoe (Physiology), *Inspiratory occlusion-induced cardiac dysfunction in rats and mice*, \$72,189 over 2 years

- Dr. Marlys Koschinsky (Biochemistry), *Modulation of the TAFI pathway in health and disease: mechanistic analysis of the regulation of TAFI gene expression in hepatic and extrahepatic cells*, \$113,328 over 4 years
- Dr. David Lillicrap (Pathology and Molecular Medicine), *Gain-of-function mutants affecting the glycoprotein Ib/von Willebrand factor interaction: Potential novel antithrombotic molecules*, \$138,494 over 5 years
- Dr. Donald Maurice (Pharmacology and Toxicology), *Phosphodiesterases in arteries*, \$91,695 over 3 years
- Dr. Robert Ross (Kinesiology and Health), *Acute and chronic exercise as treatment strategies for erectile dysfunction in sedentary obese men*, \$79,603 over 2 years

Natural Sciences and Engineering Research Council of Canada (NSERC)

- Dr. Brian Amsden (Chemical Engineering) has received a 3 year NSERC/CIHR Collaborative Health Research Project Grant (CHRP) in the amount of \$441,080. Dr. Amsden and his co-applicants J. F. Rudan, S. D. Waldman, M. Hurtig and D. D. Bardana will be working on their project *Promotion of Cartilage-to-Cartilage Healing*.
- Dr. A. M. Birk (Mechanical and Materials Engineering) has received a 4 year NSERC Collaborative Research and Development grant (CRD) totaling \$772,000 per year. NSERC's contribution in the amount of \$121,500 per year has been matched by Dr. Birk's industrial partner, W. R. Davis Engineering, in the amount of \$71,500 plus \$50,000 of in-kind support annually.
- Dr. G. Fichtinger (School of Computing) has been awarded an NSERC "Idea to Innovation" (I2I) grant in the amount of \$115,551 in support of his research, *Intensity-Based Registration of Ultrasound and Fluoroscopy-Development of a Clinically Viable System for Prostate Brachytherapy*.
- Dr. David Strong's NSERC Chair in Design Engineering has been renewed for a second 5-year term. The total amount of support for this Chair is \$2,548,422 and is

comprised of a \$1,000,000 contribution from NSERC with the balance of the support coming from OCE, Industry and Queen's University.

- Dr. W. Take (Civil Engineering) is the Principal Investigator on a successful NSERC Major Resources Support Program (MRS) award. This 3-year award of \$245,700 supports the *St. John's Centrifuge Modeling Facility*.
- Drs. Stephen Hughes and James Stotz (Physics, Engineering Physics, and Astronomy) have won a major NSERC-NRC-BDC Nanotechnology Special Opportunity Research Grant that will give them almost \$4.2M for a new project to develop novel sources of light that will radically change the landscape in secure communications over networks.

NSERC University Student Research Awards

- Queen's University received approximately \$715,000 in support of 159 undergraduate students. Students meeting the program requirements receive \$4,500 each from NSERC plus a 25% top up from their supervisor over the course of 16 weeks. These awards allow students to gain experience working with their supervisors in a laboratory setting or to do field work.

Network of Centres of Excellence

- Boyd Davis (Mining Engineering), Brant Peppley (Fuel Cell Research Centre), and Brian Surgenor, Jack Jeswiet and Il Yong Kim (Mechanical and Materials Engineering) will receive funding from AUTO21, a national Network of Centres of Excellence (NCE). The award is valued at \$1,288,125 over two years.