

## ***Senate Research Report***

*January 24, 2012*

### *Awards and Honours*

#### **Chinese Academy of Sciences: Einstein Professorship**

Dr. John Smol (Biology) has received a prestigious Einstein Professorship from the Chinese Academy of Sciences (CAS). During his two-week visiting professorship in fall 2012, Dr. Smol will undertake a lecture tour of several CAS institutes and other universities. The annual visiting professorship program was created to encourage co-operation and exchange between China's scientists and leading international researchers. Dr. Smol is the only Canadian amongst this year's 20 Einstein Professors.

#### **National Hemophilia Foundation (U.S.A.): Researchers of the Year**

Drs. Paula James (Pathology and Molecular Medicine) and David Lillicrap (Pathology and Molecular Medicine) were named Researchers of the Year by the National Hemophilia Foundation in Chicago for their work in helping to improve the lives of patients living with bleeding disorders.

#### **Queen's Prizes for Excellence in Research**

Drs. Victor Snieckus (Chemistry) and Zongchao Jia (Biomedical and Molecular Sciences) are the 2011 winners of the Queen's Prizes for Excellence in Research. These \$5,000 awards are given in recognition of outstanding research contributions while the scholar is at Queen's. Drs. Snieckus and Jia received official recognition of this achievement at Queen's convocation ceremonies in fall 2011. The public lecture event is to be held on March 20<sup>th</sup>, 2012 from 7:00-8:00p.m. in Chernoff Auditorium.

#### **Queen's University Faculty of Health Sciences: Basmajian Award**

Dr. Ian Janssen (School of Kinesiology and Health Studies) received the Mihran and Mary Basmajian Award (\$5,000 and Lecture) for Excellence in Health Research for 2010/2011. The award is given annually to a member (or members) of the full-time staff of the Faculty of Health Sciences "judged to have made the most meritorious contribution to health research during the previous year or several years." Dr. Janssen gave the Basmajian Lecture on December 15, 2011.

#### **The Order of Canada**

Dr. Noel James (Geological Sciences and Geological Engineering) was recently appointed a Member of the Order of Canada.

### **Royal College of Surgeons in Ireland: Fellowship**

Dr. Richard Reznick, Dean of the Faculty of Health Sciences, was granted a honorary fellowship from the Royal College of Surgeons in Ireland (RCSI). This fellowship is the highest honour the college can give and only a few are awarded each year.

## Research Funding

### External Awards

#### **Community Care North Hastings**

- Dr. Scott Carson (School of Business) received \$12,000 for the project, *Community Care North Hastings Transportation Evaluation*.

#### **Concordia University:**

##### **Smart Net-Zero Energy Buildings Strategic Research Network (SNEBRN)**

- Dr. Patrick Oosthuizen (Mechanical and Materials Engineering) received \$20,000 for the project, *Characterization of Convective Heat Transfer in Windows and Curtain Wall Systems*.

#### **Canadian Institutes of Health Research (CIHR):**

##### **Knowledge Translation Supplement**

- Dr. Sanjay Sharma (Ophthalmology) received \$59,512 for the project, *Managing Osteoarthritis without Surgery*.

#### **Canadian Institutes of Health Research (CIHR):**

##### **Planning Grants**

- Dr. Salinda Horgan (Psychiatry) received \$22,400 for the project, *Collaboration and Mental Health Service Delivery in Long-Term Care: Implications for Quality of Care*.
- Dr. Trisha Parsons (School of Rehabilitation Therapy) received \$25,000 for the project, *Establishing a Renal Rehabilitation Network*.
- Dr. Hélène Ouellette-Kuntz (Community Health and Epidemiology) received \$25,000 for the project, *Innovations in Community-based PHC for Adults with Intellectual/Developmental Disabilities*.

**Canadian Institutes of Health Research (CIHR):**

**Dissemination Events**

- Dr. Beatriz Eugenia Alvarado (Community Health and Epidemiology) received \$23,880 for the project, *Strengthening Canadian and International Collaborations to Study Gender, Mobility and Aging*.
- Dr. Wendy Craig (Psychology) received \$21,002 for the project, *Healthy Relationships Workshop for Master Trainers in Youth Serving Organizations*.

**Canadian Institutes of Health Research (CIHR):**

**Operating Grant – Secondary Analysis of Databases**

- Dr. Hélène Ouellette-Kuntz (Community Health and Epidemiology) received \$70,376 over two years for the project, *Investigating the Association between Interpregnancy Interval and Autism Spectrum Disorders using the Manitoba Centre for Health Policy's Data Repository*.

**Canadian Institutes of Health Research (CIHR):**

**China-Canada Joint Health Research Initiative**

- Dr. Colin Funk (Biomedical and Molecular Sciences) received \$223,275 over three years for the project, *Anti-Inflammatory Signalling Pathways of Fish Oil in Cardiovascular Health and Disease*.

**Canadian Institutes of Health Research (CIHR):**

**Team Grant**

- Dr. Rosemary Jolly (English) received \$1,488,660 over five years for the project, *A Two-pronged Service and Community Mobilization Intervention to Reduce Gender-based Violence and HIV Vulnerability in Rural South Africa*.

**Human Resources and Skills Development Canada**

- Dr. Rosemary Lysaght (School of Rehabilitation Therapy) received \$46,440 for the project, *Accommodations in the Workplace for Workers with Disabilities*.

**MITACS:**

**Accelerate Graduate Research Internship Program**

- Dr. Il Yong Kim (Mechanical and Materials Engineering) received \$30,000 for the project, *Multi-objective Topology Optimization of an Automotive Cradle*.

- Dr. P. James McLellan (Chemical Engineering) received \$30,000 for the project, *Modeling Oxygen Behaviour in Point-of Care pO2 Devices*.

#### **MITACS:**

##### **Elevate Fellowship Program**

- Dr. John Lam (Electrical and Computer Engineering) received \$70,000 for the project, *Improved Circuit for Compact Fluorescent Light Bulbs*.

#### **Natural Sciences and Engineering Research Council of Canada (NSERC):**

##### **Strategic Projects Selection Panel**

- Dr. James Fraser (Physics, Engineering Physics and Astronomy) received \$435,553 over three years for the project, *Automated Medical Device Manufacturing through Coherent Imaging*.
- Dr. Saeed Gazor (Electrical and Computer Engineering) received \$504,000 over three years for the project, *Adaptive Spectrum Allocation and Sensing for Cognitive Communication*.
- Dr. T. Patrick Martin (School of Computing) received \$480,000 over three years for the project, *Enabling Elastic Services*.
- Dr. Suning Wang (Chemistry) received \$462,000 over three years for the project, *Triarylborane-Functionalized Blue Phosphorescent Platinum Compounds for High Efficiency Organic Light Emitting Devices*.

#### **Natural Sciences and Engineering Research Council of Canada (NSERC):**

##### **Engage Grants Program**

- Dr. Dominik Barz (Chemical Engineering) received \$25,000 for the project, *Pore-scale Modeling of a Proton Exchange Membrane Electrolyser*.
- Dr. Yves Fillion (Civil Engineering) received \$10,375 for the project, *Forecasting Water Main Breaks in the City of Kingston Water Distribution Network with Artificial Neural Networks*.
- Dr. Jon G. Pharoah (Mechanical and Materials Engineering) received \$25,000 for the project, *Transport Properties of PEM Electrolyser Materials*.
- Dr. Victor Snieckus (Chemistry) received \$25,000 for the project, *Pyrrolopyridazines as a Kinase Pharmacophore*.

#### **Natural Sciences and Engineering Research Council of Canada (NSERC):**

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This research report is meant to be an illustration of research activity at Queen's University and is based on information provided to the Office of the Vice-Principal (Research) by the Faculties.

### **Regional Opportunities Fund Program**

- Ms. Janice Mady (Innovation Park) received \$1,333 for the *Ontario Economic Summit – Connect to Innovate Workshop*.

### **Ontario Centres of Excellence (OCE):**

#### **Connection Program**

- Dr. Stephen Waldman (Mechanical and Materials Engineering) received \$56,800, multiple titles for MECH 460.

### **Ontario Ministry of Agriculture, Food, and Rural Affairs**

- Dr. Yolande Chan (School of Business) received \$5,000 for the project, *Using Knowledge to Revitalize Rural Economies: A Guide for Practitioners*.

### **Ontario Ministry of Education**

- Dr. John Freeman (Education) and Dr. Wendy Craig (Psychology) received \$71,174 for the project, *Development of an Evaluation Framework: Healthy Schools Strategy*.

### **Ontario Ministry of Transportation**

- Dr. Amir Fam (Civil Engineering) received \$37,500 for the project, *Effects of High-Cycle Fatigue on Concrete Bridge Decks with FRP Stay-in-Place Structural Forms*.

### **Shastri Institute**

- Dr. Ajay Agarwal (School of Urban and Regional Planning) received \$9,500 for the project, *Developing Environment Friendly Urban Villages: Lessons from Auroville*.

### **Social Sciences and Humanities Research Council of Canada (SSHRC):**

#### **Scholarly Journal Program**

- Dr. Catherine Krull (Sociology) received \$63,700 for the project, *The Canadian Journal of Latin American and Caribbean Studies*.
- Dr. David Murakami (Sociology) received \$78,890 for the project, *Surveillance & Society*.