

Senate Research Report ***April 23, 2009***

Awards and Honours

Chancellor's Research Awards

The Chancellor's Research Awards recognize excellence and innovation among researchers appointed to their first full-time position in the last eight years. Awards of \$50,000 are provided to each researcher to support graduate students, post-doctoral fellows and research associates.

- Dr. Jon Miller (Philosophy)
- Dr. Steven Smith (Biochemistry)
- Dr. Mark Diederichs (Geological Sciences and Geological Engineering)

Juno Award

Dr. John Burge (School of Music) has won a 2009 Juno Award for Classical Composition of the Year, for *Flanders Fields Reflections*.

March 29, 2009

Research Funding Awarded

Natural Sciences and Engineering Research Council of Canada (NSERC)

Northern Research Supplement Award

- Dr. Scott Lamoureux (Geography), *Long term hydrological behaviour recorded in arctic varved lake sediments*, \$30,000
- Dr. John Smol (Biology), *Limnology and Paleoecology of Lakes*, \$40,000

Canadian Institutes of Health Research

Operating Grants

- Dr. Alice Aiken (School of Rehabilitation Therapy), Operating Grant Priority Announcement: Musculoskeletal Health, Arthritis, Skin and Oral Health for *Measuring Objective Changes in the Physical, Psychological, and Radiographic Status of Patients Awaiting Hip or Knee Replacement Surgery*, \$76,207 for 1 year
- Dr. Christopher Booth (School of Medicine, Oncology), Operating Grant Priority Announcement: Cancer for *Adoption of Adjuvant Chemotherapy for Non-Small Cell Lung Cancer in Ontario: A Population-Based Outcomes Study*, \$70,319 for 1 year

- Dr. Linda Levesque (Community Health and Epidemiology), Operating Grant Priority Announcement: Institute of Population and Public Health for *Cardiovascular Outcomes of Drug Treatment for Neuropathic Pain and Fibromyalgia: A Population-based Cohort Study*, \$100,000 for 1 year

Bridging Grant

- Dr. Michael Nesheim (Biochemistry), Bridging Grant: Institute of Circulatory and Respiratory Health for *Functional Properties of Prothrombinase*, \$100,000 for 1 year

Canada Foundation for Innovation: Leaders Opportunity Fund

- Dr. Amy Latimer (School of Kinesiology and Health Studies), *Developing Intervention Models and Dissemination Strategies for Promoting Physical Activity for Adults with a Mobility Impairment*, \$95,000
- Dr. Anne Ellis (School of Medicine), *Slowing the Allergy Epidemic Through Understanding and Prevention: A Dual-Themed Research Initiative in Atopy*, \$179,509
- Dr. Kyra Pyke (School of Kinesiology and Health Studies), *The Function and Structure of Human Arteries in Health, Stress and Disease*, \$80,000
- Dr. Jeremy Squire (Pathology and Molecular Medicine), *Cellular Genomics of Cancer*, \$494,649
- Dr. Zongchao Jia (Biochemistry), *Structural and Functional Analysis of Cancer-Related Proteins*", \$46,165
- Dr. John Cartledge (Electrical and Computer Engineering), *Signal Processing for Fiber-Optic Communications*", \$181,711

Principal's Development Fund, Advisory Research Committee (ARC) Grants

Subcommittee I (Health)

Dr. J. Allingham	Biochemistry	Analyses of novel heterodimeric kinesin motors in invasive human fungal pathogens	\$9,710
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Dr. B. Bruner	Kinesiology & Health Studies	Promoting the adoption and maintenance of physical activity through a computer-aided wellness program	\$9,409
Dr. M. Y. Chan	Pathology and Molecular Medicine	Tandem Mass Spectrometry as a replacement for underperforming Immunnoassays	\$10,000
Dr. M. Kawaja	Anatomy and Cell Biology	Phenotypic alterations in hypertrophied mesenteric arteries of spontaneously hypertensive rats	\$10,000
Dr. D. Redfearn and Dr. S. Akl	Cardiology & Computing	Development of Dedicated Signal Averaging Software for Non-Invasive Electrophysiologic Assessment	\$8,000

Subcommittee II (Humanities and the Fine Arts)

Dr. A. Chowdhury	History	Liminal Horizons: Imperial Policies of Assimilation and Indian Labor Diasporic Identities in the Anglophone Eastern Caribbean	\$5,000
Dr. C. Dhavernas	French Studies	Marguerite Yourcenar's Other America	\$3,000
Dr. K. Dubinsky	History	Children, Ideology and Iconography	\$7,000
Dr. C. Hoeniger	Art	The dispersal of works of art from Italy during the Napoleonic era	\$3,800
Dr. J. Hosek	German	Sun, Sex and Socialism: A Cultural History of Cuba and the Germans	\$4,500
Dr. R. Morrison	English	An edition of Jane Austen's <i>Persuasion</i> , to be published by Harvard University Press	\$4,500
Dr. M. Rogalsky	Music	Final research and fact-checking for manuscript "David Tudor's <i>Rainforest: Technoculture and Community</i> "	\$3,575
Dr. K. Romba	Art	Skyscraper bricolage: The social experience of the female worker in the tall office building, 1900-1950	\$3,100

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.

Dr. F. Rouget	French Studies	Pierre de Ronsard and the Role of Books	\$6,500
Dr. J. Scott	German	Commissioned Truths and Inclusive Truths: Stories of a Trial and Two Truth Commissions	\$4,000
Dr. A. Siljak	History	Reconsidering the East: The Influence of Slavophilism on Russian Eigre Thought after 1917	\$3,000
Dr. M. Snediker	English	The aesthetics of disability: American literature and figurative contingency	\$3,300
Dr. P. Thompson	Spanish & Italian	Placing the Spanish Golden Age on its End: The <i>Entremeses</i> Jerónimo Cáncer y Velasco	\$4,472
Dr. N. van Deusen	History	Indigenous servitude in the early modern Iberian world, 1492 - 1560	\$3,000

Subcommittee III (Engineering)

Dr. L. Flynn	Chemical Engineering	Controlled Adipose-derived Stem Cell adhesion within 3-D Porous Scaffolds	\$5,210
Dr. T. Harris	Chemical Engineering	Uncertainty Analysis for Assessing Operating Regimes in Integrated Energy Systems	\$10,000
Dr. K. Hashtrudi-Zaad	Electrical & Computer Engineering	Robot Assisted Needle Insertion - Modeling and Control	\$5,210
Dr. Q. Li	Mechanical & Materials Engineering	Real-time spatio-temporal gait parameter estimation during walking using ambulatory sensors	\$10,000

Subcommittee IV (Natural Sciences)

Dr. F. Bonier	Biology	Interactions of reproductive behaviour and stress hormone levels in free-ranging tree swallows (<i>Tachycineta bicolor</i>)	\$7,340
Dr. P. Grogan	Biology	Barcoded pyrosequencing: A new opportunity for greatly enhanced resolution in our studies of arctic soil microbial communities	\$4,800

Dr. C. D. Lin	Mathematics & Statistics	Design of Computer Experiments and Screening Experiments	\$8,100
Dr. N. Mosey	Chemistry	Empirical Estimation of Activation Energies for Chemical Reactions Studied through Temporal QM/MM Simulations	\$6,800
Dr. P. Mousavi	Computing	Smart EMG Signal Acquisition and Processing	\$4,800

Subcommittee V (Social Sciences)

Dr. M. Chivers	Psychology	Psychophysiological assessment of sexual activity preferences in women	\$7,000
Dr. Z. Csergo	Political Studies	Minority Integration in New European Democracies	\$5,000
Dr. D. Da Costa	Global Development Studies	The Work of the Theatre in the Development of Democracy in India	\$8,140
Dr. G. Fisk	Policy Studies	An Empirical Examination of Factors Contributing to Perceptions of Entitlement Legitimacy and Stability	\$2,800
Dr. A. Goebel	Women's Studies	Gender and Low Cost Housing in Urban South Africa	\$4,500
Dr. E. Goodyear-Grant	Political Studies	Gender, Media, and Electoral Politics in Canada	\$3,500
Dr. J. A. Grant	Political Studies	Avoiding the Resource Curse? An Assessment of Namibia's Extractive Resource Sector	\$6,080
Prof. E.S. Knutsen	Law	Just Accidents or Deadly Force: Tort Liability for Police Pursuit Collisions	\$5,000
Professor H. Kong	Law	Deliberative Democracy and the Institutions of Local	\$3,500
Dr. J. Lilius	Policy Studies	Challenging the "Inevitable" Tradeoff between Caregiver and Client Well-Being	\$4,200

Dr. R. Lysaght and Dr. T. Krupa	Rehabilitation Therapy	Social Business: Advancing the Viability of a Model for Economic and Occupational Justice for People with Disabilities	\$6,800
Dr. J. Tolmie	Women's Studies, Cultural Studies	Graphic Subjects: Memory, Gender and Desire in Alternative Comics	\$2,000
Dr. L. Viswanathan	Geography	Fostering sustainable immigrant settlement in smaller Canadian Cities	\$2,800

Publications

Dr. John McGarry (Political Studies) and his colleague, Dr. Brendan O'Leary (U. of Pennsylvania), are the focus of a new book published on their highly-influential arguments on the merits of consociational power-sharing in divided societies, including Northern Ireland:

Taylor, Rupert. *Consociational Theory: McGarry and O'Leary and the Northern Ireland conflict*. Routledge: New York, 2009. 400pp.