

Senate Research Report ***April 22, 2010***

Awards and Honours

Canada Council for the Arts Killam Research Fellowship

Dr. Philip Jessop (Chemistry, Environmental Studies) has been awarded 1 of 8 Killam Research Fellowships for 2010. Killam Research Fellowships have a value of \$70,000 per year and are administered through the Canada Council for the Arts, enabling the recipient to devote two years to full time research.

Publicly announced March 15, 2010

Canada Research Chairs (CRC)

Dr. Peter Davies (Biochemistry) has been renewed as a Tier 1 Canada Research Chair for \$1,400,000 over 7 years. Tier 1 Chairs are acknowledged by their peers as outstanding researchers and world leaders in their fields.

Dr. Valerie Kuhlmeier (Psychology) has been renewed as a Tier 2 Canada Research Chair for \$500,000 over 5 years. Tier 2 Chairs are acknowledged by their peers and recognized as emerging researchers with potential to lead in their field.

Publicly announced March 26, 2010

Ontario Research and Innovation Optical Network (ORION) Discovery Award

The High Performance Computing Virtual Laboratory (HPCVL), based at Queen's University, received the ORION Discovery Award. HPCVL is a cluster of interconnected, powerful, Sun computers at 3 Ontario colleges and 5 universities. Secure, reliable access allows researchers from a wide variety of fields the resources necessary to do innovative research.

Publicly announced April 6, 2010

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.

Research Funding

Canada Foundation for Innovation (CFI)

Leaders Opportunity Fund

- Dr. Peter Davies (Biochemistry, Biology) received \$49,130 for his project entitled *"Structure-based design and screening of inhibitors against the calpain proteases"*
Publicly announced March 26, 2010

Canadian Institute of Health Research (CIHR)

Operating Grant – Priority Announcement: Institute of Circulatory and Respiratory Health

- Dr. Graeme Smith (Obstetrics and Gynaecology) received \$100,000 for his project entitled *"The development of pre-eclampsia provides a window of opportunity for early cardiovascular risk screening and intervention"*

Queen's University - Principal's Development Fund

Senate Advisory Research Committee (SARC) Grants

Subcommittee I (Health)

Dr. Nandini Deshpande	Rehabilitation Therapy	The role of vestibular information in adaptive locomotion in young and older adults: A pilot study	\$ 9,998
Dr. Elizabeth Grier and Dr. Elizabeth Kelley	Family Medicine and Psychology	Detection of autism spectrum disorders at 18 months: Supporting families and family physicians through the diagnostic process	\$ 10,000
Dr. Brendon Gurd	Kinesiology and Health Studies	The effect of exercise intensity on mitochondrial function in obese adults	\$ 7,392
Dr. Terence Ozolinš	Pharmacology and Toxicology	Long-term postnatal effects of chemically-induced ventricular septation defects (VSD)	\$ 9,890

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Dr. Kyra Pyke	Kinesiology and Health Studies	The impact of acute mental stress on post-prandial lipemia and endothelial function	\$ 8,750
Dr. Chandrakant Tayade	Anatomy and Cell Biology	Anti-angiogenic therapy for the treatment of endometriosis	\$ 8,750
Dr. Christopher Ward	Physiology	Cardiac alternans and the role of sodium currents	\$ 10,000
Dr. David Zechel	Chemistry	In pursuit of biological fluorination: deciphering the biosynthesis of nucleocidin	\$ 10,000

**Subcommittee II
(Humanities and Fine Arts)**

Dr. George Bevan and Professor Alexander Gabov	Classics and Art Conservation	The investigation of Roman bronze coins using x-ray and neutron tomography	\$ 7,500
Dr. Fabio Colivicchi	Classics	The first wine of Italy. Anthropology of an ancient drink	\$ 5,200
Professor Barbara Klempan	Art and Art Conservation	Lyman Pharmaceuticals and the Artists' Trade in Canada (1800-1900)	\$ 2,999
Dr. Susan Lord	Film and Media Studies	Street level: The visual cultures of decolonized cosmopolitanism	\$ 5,000
Dr. Ana Belen Martin Sevillano	Spanish and Italian	Practices of racialization in contemporary Hispanic Caribbean Arts and Literature	\$ 4,081

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Dr. Sam McKegney	English	"we can't get nowhere with a silent voice": The prison writings of Anthony Thrasher	\$ 8,000
Dr. Robert Morrison	English	The Regency and related research	\$ 5,000
Dr. Barbara Reeves	Classics	Humayma Vicus excavation 2010	\$ 7,323
Dr. Tracy Trothen	Religious Studies	Book manuscript editing and Sport book chapter- ethical issues	\$ 3,200
Dr. Margaret Walker	Music	Translation of dances in Guncha-yi-Raga	\$ 1,918

Subcommittee III (Engineering)

Dr. Neil Hoult	Civil Engineering	Assessment of corroded infrastructure using wireless sensors	\$ 9,000
Dr. Qingguo Li	Mechanical and Materials Engineering	Biomechanical energy harvesting backpack	\$ 4,100
Dr. Kevin Mumford	Civil Engineering	Dissolution of hazardous immiscible liquids in groundwater containing trapped gas	\$ 9,000

Subcommittee IV (Natural Science)

Dr. Linda Campbell	Biology	Metal biomagnification in vulnerable Tibetan (Xiyan) lakes	\$ 7,242
Dr. Wenyu Jiang	Mathematics	Bayesian analysis of biomarker subset effects in clinical trails	\$ 9,994
Dr. William Nelson	Biology	Phosphorus limitation and the RNA growth limitation hypothesis in zooplankton	\$ 9,114

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Subcommittee V (Social Science)

Dr. Ajay Agarwal	Urban and Regional Planning	Public transit and urban form: Evidence from the Toronto region	\$ 9,971
Dr. Laura Cameron	Geography	Refiguring birds of passage: Historical geographies of nature and race in Leamington, ON	\$ 8,379
Dr. Meredith Chivers	Psychology	Specificity of sexual arousal across the menstrual cycle	\$ 5,000
Dr. Alexandre Da Costa	Global Development Studies	Building achievement: Comparing Afro-centric education efforts in Canada and Brazil	\$ 4,900
Dr. Dia Da Costa	Global Development Studies	The work of theatre in an age of precarious labour	\$ 6,473
Dr. Anne Godlewska	Geography	Assessing awareness of Aboriginal existence	\$ 10,000
Dr. John Holmes	Geography	Two centuries of entrepreneurship and innovation in the East Midlands (UK) hosiery and knitwear industry: A case study of John Smedley Ltd.	\$ 5,887
Dr. Catherine Krull	Sociology	The new Cuban Diaspora: Émigrés in Canada, Dominican Republic, Mexico, Spain, and the United Kingdom	\$ 6,300

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Dr. Leela Viswanathan	Urban and Regional Planning	Geographies of volunteering: Pathways to immigrant social and economic participation	\$ 4,290
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Publication

Dr. Robert Morrison (English) has authored a book titled *The English Opium Eater: A Biography of Thomas De Quincey* (London: Weidenfeld and Nicolson, 2009)