



VICE-PRINCIPAL (RESEARCH)

Senate Research Report

May 26, 2015

News

Queen's researchers, Cathleen Crudden (Chemistry) and Troy Day (Mathematics and Statistics), received two of the six 2015 Canada Council Killam Fellowships offered to Canadian scholars for projects of outstanding Merit. Dr. Crudden's project titled "Organically Modified Metal Surfaces: Biosensing and Beyond" will work to advance materials science, health care, energy production and the environment. Dr. Day will continue research on the evolution of drug resistance in his project "Designing Evolution-Proof Cancer Chemotherapy with Mathematics".

On April 24th, the Queen's community celebrated the official opening of the new Kingston Nano-Fabrication Laboratory (KNFL). The lab will allow researchers and industry to prototype tiny (Nano) technologies. Located at Innovation Park, the KNFL is an innovative research space that will foster collaboration and training, and is part of Embedded Systems Canada, a \$50 million, five-year project involving more than 350 university researchers at 37 institutions across the country.

Research Funding

Researcher	Department	Project Title	Amount
AUTO 21			
Daymond, Mark	Department of Mechanical & Materials Engineering	Knowledge and Technology Transfer Fund	\$1,500
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Jeswiet, Jack	Department of Mechanical & Materials Engineering	Knowledge and Technology Transfer Fund	\$2,000
BioFuelNet: Work Package			

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Mabee, Warren	Policy Studies	Creating a Criteria & Indicator Framework to Assess Biofuel Sustainability in the Canadian Context	\$90,000
Mabee, Warren	Policy Studies	Biodiluent and Biojet Production and Use: Techno-Economics and GHG Impacts	\$90,000
Canada Foundation for Innovation (CFI): JELF			
Giacomin, A. Jeffrey	Chemical Engineering	Experimental Techniques to Determine the Rheological Properties of Polymeric Liquids	\$200,000
Smol, John	Biology	Long-term Environmental Change Facility	\$85,000
Canada Research Chairs			
Giacomin, A Jeffrey	Chemical Engineering	CRC in Rheology	\$1,400,000
Jain, Praveen	Electrical and Computer Engineering	CRC in Power Electronics	\$1,400,000
Moore, Ian	Civil Engineering	CRC in Infrastructure Engineering	\$1,400,000
Munoz, Douglas	Centre for Neuroscience Studies	CRC in Neuroscience	\$1,400,000
Piomelli, Ugo	Mechanical and Materials Engineering	CRC in Turbulence Simulation and Modelling	\$1,400,000
Poppenk, Jordan	Psychology	CRC in Cognitive Neuroimaging	\$500,000
Smol, John	Biology	CRC in Environmental Change	\$1,400,000

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Webber, Grégoire	Faculty of Law	CRC in Public Law and Philosophy of Law	\$500,000
Canadian Institutes of Health Research (CIHR)/ Natural Sciences and Engineering Research Council (NSERC): Collaborative Health Research Project (CHRP)			
Fichtinger, Gabor Rudan, John (Co-Investigator)	School of Computing School of Medicine	Mobile Image Overlay System (MIOS) for Musculoskeletal Needle Placement Guidance.	\$276,024
Canadian Statistical Sciences Institute: Collaborative Research Team Project			
Thomson, David	Mathematics & Statistics	Modern Spectrum Methods in Time Series Analysis: Applications in Physical Science, Environmental Science and Computer Modeling	\$200,000
Mitacs: Globalink Research Award			
Krull, Catherine	Gender Studies	Mexico-Cuba Bilateral Relations After El-Bache: The Role of International Visual Art Exhibitions	\$5,000
Natural Sciences and Engineering Research Council (NSERC): Collaborative Research & Development Grants			
Loock, Hans-Peter	Chemistry	Online Monitoring of Lubricant Quality. Partner contributions from K. Goddard GasTOPS Ltd. \$80,000.	\$160,000

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Natural Sciences and Engineering Research Council (NSERC): Engage			
Loock, Hans-Peter	Chemistry	Ultra-sensitive Fibre Strain Sensor	\$24,999
Natural Sciences and Engineering Research Council (NSERC): Engage Plus			
Li, Qingguo	Mechanical & Materials Engineering	Camera-based calibration and testing of inertial sensors in 3D joint Kinematics estimation. Partner contributions from HAS Motion, \$10,000.	\$10,000
Philosophy of Education Society of Great Britain: Large Grants – Research Fellowship			
Bakhurst, David	Philosophy	Like-mindedness: Education, Conversation and Philosophy	£ 28,000