

## *Senate Research Report*

*February 24, 2015*

### News

Dr. Peter Hodson (School of Environmental Studies) has joined a new Royal Society of Canada panel that will study oil spills and their impacts on freshwater and marine environments.

Mr. Don Aldridge, Research Executive at IBM, has been seconded to the Office of the Vice-Principal (Research) for six months where he will work as an adviser on a number of research and computing projects.

Three new chair positions in the Faculty of Health Sciences have been filled by esteemed leaders in their respective fields:

- Dr. Michael Green (Public Health Sciences, Family Medicine) has been appointed the Clinical Teachers' Association of Queen's Chair in Applied Health Economics/Health Policy
- Dr. John Rudan (Surgery) is the Britton Smith Chair in Surgery
- Dr. Martin ten Hove (Ophthalmology) is the Edna and Ernie Johnson Chair in Ophthalmology

### Research Funding

| Researcher  | Department | Project Title  | Amount    |
|---|------------|--|-----------|
| <b>Canada Foundation for Innovation (CFI): John R. Evans Leaders Fund</b> |            |  |           |
| Archer, Stephen   | Medicine   | Super resolution optical imaging of mitochondrial dynamics in human diseases   | \$400,000 |
| Babak, Tomas  | Biology    | Nextgen sequencing laboratory for methods development and deciphering genomic and epigenetic causes of complex disease | \$150,000 |

|  |  |  |             |
|--|--|--|-------------|
| Berg, Derek  | Faculty of Education                     | Merging mathematical cognition and instructional intervention  | \$86,000    |
| Ghahremaninezhad, Ahmad  | Robert M. Buchan<br>Department of Mining | Development of environmentally responsible hydrometallurgical processes  | \$125,000   |
| Nunzi, Jean-Michel   | Chemistry/Physics                        | Exploration of a rectifying antenna solar cell technology  | \$50,000    |
| Renwick, Neil  | Pathology and Molecular Medicine         | Improved neuroendocrine tumor management through RNA-based diagnostics   | \$200,000   |
| Rival, David   | Mechanical and Materials Engineering     | A state-of-the-art optical towing tank for the 21st century project leader   | \$175,000   |
| Ross, Avena  | Chemistry                                | Connecting genes to molecules in marine proteobacteria to discover new compounds and biosynthetic pathways   | \$150,000   |
| <b>Canada Foundation for Innovation (CFI): Major Science Initiatives (MSI)</b>                                 |  |  |             |
| Eisenhauer, Elizabeth  | NCIC                                     | NCIC Clinical Trials Group Central Operations and Statistics Office at Queen's University  | \$3,831,564 |
| <b>Health Research Foundation</b>  |  |  |             |
| Cramm, Heidi   | School of Rehabilitation Therapy         | Targeting the mental health of children growing up in military families  | \$150,000   |
| <b>Natural Sciences and Engineering Research Council (NSERC): Collaborative Research and Development Grant</b> |  |  |             |
| Hutchinson, Robin  | Chemical Engineering                     | Measurement and modeling of vinyl acetate polymerization kinetics to support new process development. Partner contributions from DuPont Canada Inc. \$25,000 | \$29,000    |

---

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 University Research Services.

|  |  |  |           |
|--|--|--|-----------|
| Snieckus, Victor   | Chemistry                                | Alternative to palladium catalysis for the elaboration of nitrogen heterocycles. Partner contributions from Vertex Pharmaceuticals (Canada) Inc. \$104,348 | \$191,861 |
| <b>NSERC: Engage Grant</b>                               |  |  |           |
| Hassanein, Hossam  | School of Computing                      | Autonomous Context-aware Inventory Management (ACIM)   | \$25,000  |
| MacDougall, Colin  | Civil Engineering                        | Cross-sectional capacity of oval hollow structural sections  | \$24,733  |
| Oleschuk, Richard  | Chemistry                                | Droplet-based microfluidic platform for hydrocarbon manipulation   | \$25,000  |
| Saavedra, Carlos   | Electrical and Computer Engineering      | Development of millimeter-wave technology for non-contact automated testers of CMOS wafers   | \$25,000  |
| <b>National Endowment for the Humanities: Fellowship</b> |  |  |           |
| Bailey, Gauvin   | Art History                              | Art and architecture in the French Atlantic world, 1608-1828   | \$33,600  |
| <b>SSHRC: Connection Grant</b>                           |  |  |           |
| Lahey, Kathleen  | Faculty of Law                           | Women and tax justice  | \$25,000  |
| Masuda, Jeffrey  | School of Kinesiology and Health Studies | The right to remain exhibits: A creative repossession of the Human Rights Legacies of Vancouver's downtown eastside  | \$46,150  |
| Rouget, Francois   | French Studies                           | Francois 1er et la vie litteraire de son temps 1515-1547   | \$24,952  |

---

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 University Research Services.