

Senate Research Report

November 13, 2008

Awards and Honours

- Dr. Ken Rose (Physiology) has received the Barbara Turnbull Award, presented to the top-ranked spinal cord researcher identified through CIHR's investigator-initiated grants competition. This award comes with \$50,000 in research support from CIHR.
Publicly announced October 30, 2008
- The publication *Canada's Innovation Leaders*, prepared by Research Infosource Inc., reported that Queen's University has jumped from seventh to fourth place in research intensity, and recorded the largest overall increase in funding of the top 16 Canadian institutions measured in the annual ranking of Canada's top 50 research universities.
Publicly announced October 29, 2008

Research Funding Awarded

Canadian Cancer Society – Ontario Division:

- Dr. Stephen Hall (Otolaryngology), *The impact of Cancer Care Ontario clinical practice guideline #5-6a on physicians, practice and patients*, \$298,210 over two years.
- Dr. Will King (Community Health and Epidemiology), *DNA methylation and risk for colorectal adenomas*, \$372,910 over three years.
- Dr. Chris Mueller (Queen's Cancer Research Institute), *DNA methylation and risk for colorectal adenomas*, \$35,000 for one year.

Canadian Institutes of Health Research (CIHR):

- Dr. Margaret Harrison (School of Nursing) received \$16,661 from the Meetings, Planning and Dissemination Grant: End of Grant Knowledge Translation Supplement Grant for her work on *Canadian Bandaging Trial: Next Steps*.
- Drs. Stevenson Fergus (School of Kinesiology and Health Studies) and Rosemary Jolly, (English) received \$5,000 from the Meetings, Planning and Dissemination Grant: Institute of Infection and Immunity for *HIV/AIDS, Gender-based Violence and Masculinities Workshop*.
- Dr. Helene Ouellette-Kuntz (Psychiatry) received \$10,000 from the Meetings, Planning and Dissemination Grant: Human Development, Child and Youth Health Grant for *Using Administrative Datasets to Examine Environmental Risk Factors for Autism*.
- Dr. Doug Munoz (Centre for Neuroscience Studies) received \$320,000 from CIHR over 4 years in partnership with the National Science Foundation for *Neural basis of active perception in natural environment*.
- Dr. Graeme Smith (Obstetrics and Gynaecology) received \$4,976 for development of an application for a Strategic Training Initiative in Health Research.

Ontario Research Fund - Research Infrastructure (ORF-RI):

- Drs. Mark Boulay and Art McDonald (Physics), *DEAP/CLEAN: Dark Matter Particle Search with Liquid Argon*, \$401,391.
- Drs. Ian Moore and Richard Brachman (Civil Engineering), *Ultimate Strength of Buried Infrastructure*, \$236,809.
- Drs. Mark Daymond and Keith Pilkey (Mechanical and Materials Engineering), *High resolution three dimensional imaging of the structure of materials during in situ deformation*, \$374,804.
- Dr. Ugo Piomelli (Mechanical and Materials Engineering), *Computational Turbulence Research*, \$125,000.
- Dr. Timothy McKenna (Chemical Engineering), *Innovation in the Manufacturing of Polymers*, \$250,000

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 the Faculties.

- Dr. Tucker Carrington (Chemistry), *Large-memory computers for calculating spectra and rate constants by solving the Schroedinger equation*, \$75,000.

Publicly announced October 20, 2008.

Innovation Park at Queen's University:

Innovation Park at Queen's University is building long term economic benefits for the region. Response to the Park has been extremely favourable and results to date are ahead of schedule. Park occupancy is already at 60%; 18 organizations are currently represented in the Park, including multi-national companies, small to medium sized enterprises, research centres, service providers and government organizations.

Highlights follow:

- The Park is a community of innovators and specialists.
- The Park is a portal to technology-based economic development resources within the region and community; the Park is also a portal to industry for establishing contract service and research partnerships with Queen's.
- Large companies are establishing a footprint at Innovation Park (Phase 1) to use as their base for enabling industry to industry interaction and collaboration with the university.
- Companies are using the specialized equipment and services offered through the Park and have signed agreements that will flow dollars into our local community.
- Innovation Park has an active prospect list for both phases of development.
- The Park is a launch pad for new technology initiatives in the region. The proposed Green Chemistry Commercialization Centre has attracted significant interest, federally and provincially, and the Institute for Synthetic Organic Chemistry has secured preliminary funding. These niche technology initiatives offer the potential to create high value jobs, attract numerous industry partners, and position Kingston as a "go to" place.
- Innovation Park provides the stage to enable sizable research funding applications* in green technologies (Green Bus, Sustainable Bioeconomy Centre at Queen's University) that will help to foster growth of this technology cluster in the region.
- The Park provides an eastern Ontario option for expansion of Toronto-based research centres (incentive is combination of strategic location, attractive pricing structure and unique research expertise at Queen's).
- Innovation Park lands enable infrastructure funding applications* for highly specialized technology which will attract users to Kingston (solar and accelerator technologies).

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- Innovation Park provides the platform from which to build or strengthen meaningful relationships with RMC and with our regional colleges (SLC, Loyalist) – the Park is the voice to promote the unique resources of these institutions.
- Innovation Park is thriving as a unique co-habitation model with large industry.
- The Queen’s-Novelis partnership affords many advantages to both Parties and to the city of Kingston. The partnership is attracting new resources to the city and investments to the site, and is fostering exciting R&D opportunities with emphasis on commercialization.
- Innovation Park is a demonstration site for leading edge alternative energy technologies (solar).
- Innovation Park facilitates collaborations among service providers in the field of technology-based economic development and optimizes program delivery and impact.
- Innovation Park provides a forum to actively engage youth in science and innovation (Innovation Experience competition, Queen’s Entrepreneurs Competition).

** success of funding applications TBD*