## SenateResearch Report Sept 27,2011

## Awards and Honours

American Alliance for Theatre and Education: Lifetime Achievement Award Queen's University Education Professor Larry O'Farrell has been awarded a lifetime achievement award by the American Alliance for Theatre and Education for his international leadership in promoting drama and theatre. The award recognizeshis achievements in teaching, research and leadership at the national and international levels.

## The Order of Canada

Dr. Alvaro Morales, Professor Emeritus of Urology, and Dr. John Bradford, Professor in the Department of Psychiatry were recently appointed members of the Order of Canada. Dr. Morales's research career, spanning more than 40 years, has advanced thiseld of urology and resulted in improved treatments for cancer and sexual dysfunction. Dr. Bradford is renowned for his work in the field of forensic psychiatry, in particular the treatment of mentally ill offenders. He has been associated with Queen's for the last 10 years including as a lecturer and external theses reviewer.

The Royal College of Surgeons (Edinburgh): Fellowship

Dr. Richard Reznick, Dean of the Faculty of Health Sciences recently joined a small group of Canadians who have received an honorary fellowship from the Royal College of Surgeons in Edinburgh.

The Royal Society of Canada: Fellowship

Dr. Audrey Kobayashi (Geography) has been elected as a fellow of the Royal Society of Canada. The Royal Society of Canada recognizes excellence in learning and research, advises governments and organizations, and promotes Canadian culture. Election to the A cademies of the RSC is the highest honour a scholar can achieve in the arts, humanities and sciences.

The Royal Society of Canada: The Henry Marshall Tory Medal

Dr. Art McDonald (SNOLAB) has won the Royal Society of Canada's Tory Medal. The medal is awarded for outstanding research in a branch of astronomy, chemistry, mathematics, physics, or an allied science, carried out mainly in the eight years preceding the date of the award, but all the research of the candidate is taken into account.

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. John L. Schreiner (Medical Physics) received \$339,058 for his project entitled, Advancing Gel Dosimetry for Onical Radiation Therapy.
- Dr. Michael John Beyak (Medicine) received \$705,256 for his project entitled, Diet Induced ObesityDown Regulates @strointestinalVagal Afferent Satiety Sgnalling.
- Dr. Donald Hector Maurice (Biomedical and Molecular Sciences) received \$600,254for his project entitled, Compartment Specific Cyclic NucleotideSignalling and Control of Mural Cell Vascular Functions.

Canadian Institutes of Health Research (CIHR): Operating Grant -

Population Health Intervention Research

Dr. Lucie Levesque (School of Kinesiology and Health Studies) received \$199,615 or her project entitled, National Guidelines for the Prevention of Obesity in the Mexican School System: An Investigation of Picy Implementation and Impact.

Canadian Institutes of Health Research (CIHR):

Partnerships for Health System Improvement

Dr. Daren Heyland (Medicine) received \$433,418 for his project entitled, Advance Care Planning Evaluation in Hospitalized Elderly Patients: A Multicenter, Prospective Study.

Canadian Institutes of Health Research (CIHR):

Meetings, Planning and Dissemination Grant - Knowledge Translation Supplement

Dr. Sanjay Sharma(Medicine) received \$44,450 for his project entitled, Preventing Fallsni the Elderly –Online Video KT

Dr. Sanjay Sharma(Medicine) received \$44,450 for his project entitled, An Emerging Treatment for Chronic Pain – Online Video KT

Dr. Sanjay Sharma (Medicine) received \$41,838 for his project entitled, VideoOnline KT-neng

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- Dr. Kevin Mumford (Civil Engineering) received \$90,000 for his project entitled, Remediation of Mn-aqueous Plase Liquid Wastes in Groundwater Systems Ontaining Trapped Gas.
- Dr. Kent Novakowski (Civil Engineering) received \$205,000 for his project entitled, The Role of the Prift-bedrock Ontact and Upper Edrock Properties in the Recharge and Contamination of Sallow Bedrock Aquifers.
- Dr. Dongsheng Tu (Community He alth and Epidemiology) received \$80,000 for his project entitled, Statistical Theory and Methods for ancer anical Trials.
- Dr. Gabor Fichtinger (School of Computing) received \$366,450 for his project entitled, Needle @idance inSoft Tissue.
- Dr. Audrey Girouard (School of Computing) received \$100,000 for her project entitled, Design and Valuation of New Input and InteractionTechniques for lexible Display Surfaces.
- Dr. Janice Glasgow (School of Computing) received \$120,000 or her project entitled, Intelligent Systems for the AssessmenDiagnosis and reatment of Stoke Patients.
- Dr. Manuela Kunz (School of Computing) received \$70,000 for her project entitled, Algorithms and Interfaces for Improved Image-guided Sery.
- Dr. T. Patrick Martin (School of Computing) received \$145,000 for his project entitled, Self Managing Coud Data Services (SMCDS).
- Dr. David Skillicorn (School of Computing) received \$145,000 for his project entitled, Adversarial Knowledge Discovery.
- Dr. Abd- Elhamid Taha (School of Computing) received \$100,000 for his project entitled, Opportunistic Frameworks for Rdio Resource Management.
- Dr. Ahmad Afsahi (Electrical and Computer Engineering) re ceived \$110,000 for his project entitled, High-performance and lable © mmunication Sb systems fo Exascale Computing.
- Dr. Alireza Bakhshai (Electrical and Computer Engineering) received \$110,000 for his project entitled, Modeling, Design, andControl of Rug-and-Play Power Converters for Hybrid RenewableDistributed Energy.
- Dr. Wai Yip Geoffrey Chan (Electrical and Computer Engineering) received \$140,000for his project entitled, Anthropomorphic and Eccient Multimedia Communication.
- Dr. Michael Greenspan (Electrical and Computer Engineering) received \$160,000 for his project entitled, Object Cass Recognition in 3DI mage Data.
- Dr. Mohamed Ibnkahla (Electrical and Computer Engineering) received \$160,000 for his project entitled, EnablingMultiband Cognitive Relay Networks.
- Dr. Carlos Saavedra (Electrical and Computer Engineering) received \$160,000 for his project entitled, Advanced Fequency Onverters for the Radio Front-end of Wheless Communications Transceivers.
- Dr. Paresh Sen (Electrical and Computer Engineering) received \$200,000 for his project entitled, Performance Ehancement in Ewer Electronics, Onverters, Inverters, and Who Generator Stems.

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- Dr. Robert Dalrymple (Geological Sciences and Geological Engineering) received \$28,000 for his project entitled, Tidal Deposits inTime and Sace.
- Dr. Heather Jamieson (Geological Sciences and Geological Engineering) received \$140,000 for her project entitled, Characterization of Mineral Nanoparticles in Dust and Colloids.
- Dr. James Lee (Geological Sciences and Geological Engineering) received \$140,0000 his project entitled, New Advances in ArAr GeochronologandNovel Applications to Cobal Tectonics.
- Dr. Brendan Gurd (School of Kinesiology and Health Studies) received \$155,000 for his project entitled, Posttranslational Regulation of SIRT1: then pact of Activation and Subcellular Locale or Mitochondrial Bogenesis in Skeletal Muscle.
- Dr. Joan Stevenson (School of Kinesiology and Health Studies) received \$155,000 for her project entitled, Evaluation of \$\ategies\$ to improve Measurement, Evaluation, an improve Requirements of the SpinDeuring Manual Materials Handling Tasks.
- Dr. Michael Tschakovsky (School of Kinesiology and Health Studies) received \$200,000 for his project entitled, Integrated Cardiovascular Ontrol Responses to Physicact vity in Humans
- Dr. Agnes Herzberg (Mathematics and Statistics) received \$60,000 or her project entitled, The Statistical Design and Analysis of Experiments and Combinatorial Design.
- Dr. Abdol -Reza Mansouri (Mathematics and Statistics) received \$65,000 for his project entitled, Geometric and opological proposes in Inlinear Control Theory.
- Dr. Roland Speicher (Mathematics and Statistics) received \$265,000 for his project entitled, New Directions in Free Probability.
- Dr. Peter D. Taylor (Mathematics and Statistics) received \$220,000 for his project entitled, General Theory of Inclusive Fitness in Structured Populations; argeNon-additive Effects; Microbial Interactions.
- Dr. Stephen J Harrison (Mechanical and Materials Engineering) received \$115,000 or