

AWARDS & HONOURS MAY – JUNE 2013

Faculty of Arts & Science

The International Sleep Research Association has recognized the work of Associate Professor **John Peever**, Cell & Systems Biology. The association announced recently that Peever's research paper on muscle paralysis during dreaming was selected by a peer vote as universally important to the field and had made the most significant impact on sleep research globally.

Professor **Keren Rice**, Linguistics, has won the 2013 National Achievement Award from the Canadian Linguistics Association for outstanding contributions to the field of linguistics which have earned distinction for the awardee and the Canadian linguistics community.

The **Dunlap Institute for Astronomy & Astrophysics** has won two CASE awards for its 2012 Transit of Venus event: a Silver Circle of Excellence Award in the category of Public Relations and Community Relations Projects and a Bronze for Individual Special Event. The awards are a program of the Council for Advancement and Support of Education, or CASE, an international association that serves professionals in educational institutions who work in alumni relations, communications, development and marketing.

School of Graduate Studies

The School of Graduate Studies is pleased to announce **Professor Brenda J. Andrews (Molecular Genetics) and Professor Clifford Orwin (Political Science)** are the inaugural recipients of the JJ Berry Smith Doctoral Supervision Award recognizing outstanding performance in the multiple roles associated with doctoral supervision.

Faculty of Medicine

Professor **Ophira Ginsburg**, Department of Medicine, is a recipient of the Women of Distinction Award by the YWCA for her work to improve breast cancer screening and care for underserved South Asian women abroad and in the GTA.

Professor **Gillian Hawker**, Department of Medicine, is the recipient of the Robert Hyland Award for Excellence in Mentorship by the Department of Medicine. The award acknowledges the impact of her mentorship on trainees, physicians and scientists in the Department of Medicine at the University of Toronto. Hawker was also awarded the Queen's Diamond Jubilee Medal in recognition of her leadership as a researcher, and her impact on the clinical

Professor **Joanne Kotsopoulos**, Dalla Lana School of Public Health, is the recipient of the Champion of Genetics Award by the Canadian Gene Cure Foundation. The award recognizes and supports her work with Dr. Steven Narod at the Familial Breast Cancer Research Unit at Women's College Research Institute.

Professor **Steven Narod**, Dalla Lana School of Public Health and Department of Medicine, is the recipient of the O. Harold Warwick Prize from the Canadian Cancer Society. The award recognizes research that has had a major impact on cancer control in Canada. Narod was also awarded the Queen's Diamond Jubilee Medal recognizing his leadership as a researcher and his impact on the clinical treatment and prevention of hereditary breast and ovarian cancers.

The [BIAL Foundation](#) is honouring Professor **Peter St George-Hyslop** with a BIAL Merit Award in Medical Sciences, one of the world's most prestigious awards for health research. Europe's equivalent of Canada's Gairdner Awards or the United States' Lasker Awards, the BIAL Merit Award recognizes written work that has major scientific relevance.

The Canada Foundation for Innovation (CFI) is paying tribute to the outstanding contributions of Dr. **John R. Evans**, the CFI's first Board Chair and a former president of the University of Toronto, by renaming one of the CFI's core funds in his honour. The CFI's Leaders Opportunity Fund is now the John R. Evans Leaders Fund.

University of Toronto Mississauga

Professor **Robert Gerlai**, University of Toronto Mississauga, Psychology is the recipient of the 2013 International Behavioural and Neural Genetics Society (IBANGS) Distinguished Investigator Award. This award honours a scientist who is seven or more years post first faculty whose area of research is in behavioural and neural genetics. Key considerations are the scientific importance of discoveries, record of achievement, mentorship of students, postdoctoral fellows and new faculty, and continued impact on the field.

University-wide

President's Teaching Awards

Larry Sawchuk, of the Anthropology Department at UTSC, **Chris Perumalla**, of Department of Physiology and Division of Teaching Laboratories, Faculty of Medicine and Associate Professor **Alissa Trotz**, Women and Gender Studies Institute and Caribbean Studies, are the recipients of this year's President's Teaching Awards.

Inventor of the Year Award

The Inventor of the Year Award recognizes inventions that have the potential to improve our quality of life. Entrants and their teams must be faculty members or trainees who disclosed their inventions to U of T's Innovations and Partnerships Office within the past five years. Inventions are assessed based on their uniqueness, potential for global impact and commercial appeal. (Some of the inventions include students as co-inventors.)

2013 Inventors of the Year are:

■ **Ahmed El-Sohehy** (Department of Nutritional Sciences). El-Sohehy has invented a panel of seven genetic markers that can be used to determine a person's response to seven key components of diet: vitamin C, folate, whole grains, omega-3 fat, saturated fat, sodium and caffeine, leading to personalized DNA-based dietary recommendations.

■ **Axel Guenther** (Department of Mechanical and Industrial Engineering and Institute for Biomaterials and Biomedical Engineering—or IBBME) with **Milica Radisic** (IBBME), **Lian Leng**, **Arianna McAllister**, **Andrew Woollard** and **Boyang Zhang**. Guenther's team has developed a 3D "bio-printer" that can produce wound dressings that accurately mimic human skin.

■ **Patrick Gunning** (Department of Chemical and Physical Sciences, UTM). Gunning has invented a drug-like molecule that targets STAT 3, a protein involved in many human cancers.

■ **Steve Joordens** (Department of Psychology, UTSC) with **Dwayne Pare**. Joordens and Pare created peerScholar, a cloud-based eLearning tool that supports the development of critical thought.

■ **Peter Lehn** (The Edward S. Rogers Sr. Department of Electrical and Computer Engineering—or ECE). Lehn has invented a new power electronic circuit topology for ultra high efficiency power conversion from low voltage to high voltage dc.

■ **Andreas Mandelis** (Department of Mechanical and Industrial Engineering, IBBME and ECE) with **Jose A. Garcia**, **Jinseok Jeon**, **Anna Matvienko** and **Lena Nicolaidis**. The team of inventors, which includes Dr. **Stephen Abrams**, CEO of Quantum Dental Technologies, has invented a way to monitor cavities without using ionizing dental x-rays.

■ **Milos Popovic** (IBBME), **Santa Huerta Olivares**, **Massimo Tarulli**, **Peter Lehn** (ECE) and **Aleksandar Prodic** (ECE and Computer Engineering). The team is designing neuroprosthetic devices that help restore or replace nervous system function damaged by stroke or spinal cord injury.

■ **Molly Shoichet** (Department of Chemical Engineering & Applied Chemistry and IBBME) with **Dimpy Gupta**, **Charles Tator** (University Health Network), **Jordan Wosnick** and **Ryan Wylie**. Shoichet's team develops materials for drug delivery and regeneration.

■ **Gilbert Walker** (Department of Chemistry) with **Nikhil Gunari**. Walker and Gunari are focused on keeping ship hulls free of fouling organisms and keeping aquaculture nets clean. They have invented a marine biofouling solution that keeps aquaculture nets clean, reducing the cost of fish farming.

■ **Daniel Wigdor** (Department of Computer Science and Department of Mathematical and Computational Sciences, UTM) with co-inventor Ricardo Jota. Wigdor and Jota are investigating the lag between a user's input to a smartphone or tablet and the system's response, and developing technology to reduce this lag.

Connaught New Research Awards

The Connaught New Researcher Awards are designed to foster excellence in research and innovation among researchers at the assistant professor level who are within the first five years of their first academic appointment. Forty-one researchers from across the university have received Connaught New Researcher Awards for 2013. The winners are:

- **Aimy Bazylak**, Department of Mechanical and Industrial Engineering, "Improving polymer electrolyte membrane (PEM) fuel cells for clean energy."
- **Lauren Bialystok**, Department of Humanities, Social Sciences & Social Justice Education, "Refining the authenticity discourse in education."
- **Suzanne Cadarette**, Leslie Dan Faculty of Pharmacy, "Glucocorticoid-induced osteoporosis management."
- **Arthur Chan**, Department of Chemical Engineering and Applied Chemistry, "Laboratory studies of semivolatile organic emissions and oxidation."
- **Nate Charlow**, Department of Philosophy, UTM, "The language of direction."

- **Ya-Huei (Cathy) Chin**, Department of Chemical Engineering and Applied Chemistry, “Catalytic upgrading of biomass derived oxygenates into fuels and commodity chemicals: Chemistry at acid sites confined within microporous crystalline structures.”
- **Hae Yeon Choo**, Department of Sociology, UTM, “Narrating gender, nation, and victimhood: Global stratification in gender-related refugee case law in Canada.”
- **Bianca Dahl**, Department of Anthropology, UTSC, “Blood of the innocents: Exploring the changing relationship between stigma and public health program successes for HIV-positive children and adults in Botswana.”
- **Carolina de Miguel Moyer**, Department of Political Science, “The price of territorial politics: Economic inequality, institutions and party systems.”
- **Alis Ekmekci**, University of Toronto Institute for Aerospace Studies, “Experimental research on flow control: suppression of flow-induced vibration.”
- **Kamran Esmaeili**, Department of Civil Engineering, “Characterization of impact-induced damage of rock masses in ore pass systems.”
- **Linda Feng**, Department of East Asian studies, “The mindscape of here versus there: Imagined geographies and the circulation of spatial knowledge in medieval China.”
- **Rodrigo Fernandez-Gonzalez**, Institute for Biomaterials and Biomedical Engineering, “Mechanisms of cell coordination in epithelial morphogenesis analyzed by quantitative 3D imaging.”
- **Lisa Forman**, Dalla Lana School of Public Health, “Maximizing the contribution of the right to health to global health equity: Developing rights-based goals for universal health coverage.”
- **Patricia Ganea**, Department of Applied Psychology and Human Development, “Using picture books to teach young children science.”
- **Penney M. Gilbert**, Institute for Biomaterials and Biomedical Engineering, “Methods to expand muscle stem cells ex vivo for localized transplantation therapies.”
- **Jenna Hartel**, Faculty of Information, “No problem! Information practice in the liberal arts hobby.”
- **Benjamin Hatton**, Department of Materials Science and Engineering, “Antimicrobial surfaces for medical equipment and environments.”
- **Jodie Jenkinson**, Department of Biology, UTM, “Mental model construction and complex learning in undergraduate biology: Examining the perceptual affordances of three-dimensional animated visualizations for learning about molecular scale phenomena.”
- **Philippe Lavoie**, University of Toronto Institute for Aerospace Studies, “Flow control for reduction of drag and noise emission of blunt trailing edge airfoils.”
- **Shannon McCauley**, Department of Biology, UTM, “Effects of cross-scale interactions on species distributions and community structure in freshwater systems.”
- **Karim Mekhail**, Department of Laboratory Medicine and Pathobiology, “Perinuclear silent chromatin tethers in premature aging and muscular dystrophy.”
- **Lena Mortensen**, Department of Anthropology, UTSC, “Cultural celebrity and the archaeological imagination: Assessing emerging relationships in heritage, rights, and the marketplace.”
- **Kelly O’Brien**, Department of Physical Therapy, “Establishing a community-based exercise intervention to reduce episodic disability experienced by adults living with HIV.”

- **Andrea Olive**, Department of Political Science, UTM, “Immigrant attitudes toward wildlife & nature: A case study of Chinese immigrants in Toronto and Vancouver.”
- **Chayawat Ornthanalai**, Rotman School of Management, “Option listing on IPOs.”
- **Anuradha Prakki**, Faculty of Dentistry, “Catechin released from Bis-GMA/TEGDMA and BisGMA/TEGDMA/PAM dental copolymers: biological properties.”
- **T. Nikki Cesare Schotzko**, Centre for Drama, Theatre, and Performance Studies, “The Untruth of Style: Art and Culture in the Age of Digital Reproduction.”
- **Mikhail Simutin**, Rotman School of Management, “On incentives to stand out in the family: Deviation from the family portfolio and mutual fund performance.”
- **Josh Taylor**, Edward S. Rogers Sr. Department of Electrical and Computer Engineering, “Coordinated control of distributed energy resources.”
- **Piero Triverio**, Edward S. Rogers Sr. Department of Electrical and Computer Engineering, “Stochastic models of high-speed interconnects for time-domain analysis.”
- **Amanda Uliaszek**, Department of Psychology, UTSC, “The stress generation model as an explanation of suicidality in borderline personality disorder.”
- **Vinod Vaikuntanathan**, Department of Mathematical and Computational Sciences, UTM, “Secure cloud computing.”
- **Steven Vande Moortele**, Faculty of Music, “Towards a theory of romantic form: Concert and opera overtures, 1820 – 50.”
- **Kimberley Widger**, Lawrence S. Bloomberg Faculty of Nursing, “How have we changed? Pediatric palliative care in Canada, 2002-2012.”
- **Daniel Wigdor**, Department of Mathematics and Computational Sciences, UTM, “Enabling a symphony of devices.”
- **Liyan Yang**, Rotman School of Management, “Disagreement, sentiment, and return predictiveness of liquidity: Theory and evidence.”
- **Paul Yoo**, Institute for Biomaterials and Biomedical Engineering, “The Neural Mechanisms of Treating Chronic Urinary Symptoms by Electrical Neuromodulation.”
- **Ding Yuan**, Edward S. Rogers Sr. Department of Electrical and Computer Engineering, “Making failures more diagnosable in the cloud.”
- **Ke Zhang**, Department of Mathematics and Computational Sciences, UTM, “Instabilities in nearly integrable Hamiltonian systems.”