

*2<sup>nd</sup> Annual*

# **Celebrating Engineering Success Reception**

**2008–2009 Research Awards & Grants**



**UNIVERSITY OF TORONTO**  
FACULTY OF APPLIED SCIENCE & ENGINEERING

# Research Awards and Grants

## Renewed Endowed Chairs 2008-2009

### Bahen Tannenbaum Chairs in Civil Engineering

Michael Collins, CivE

Jeffrey Packer, CivE

### Celestica Chair in Materials for Microelectronics

Doug Perovic, MSE

### Gerald R. Heffernan Chair in Materials Processing

Torstein Utigard, MSE

### The Meek Family Chair in Advanced Nanotechnology (formerly Energenius Chair)

Harry Ruda, MSE

### Stanley Ho Professorship in Microelectronics

Sorin Voinigescu, ECE

## 2008–2009 NSERC Strategic Grants

J. Stewart Aitchison, ECE

Levente Diosady, ChemE

Glenn Hibbard, MSE

Baochun Li, ECE

Chul Park, MIE

Yu Sun, MIE

## CFI Leadership Opportunity Fund

Alis Ekmekci, UTIAS

Giovanni Grasselli, CivE

Phillippe Lavoie, UTIAS

Kaiwen Xia, CivE

## 2008–2009 Early Researcher Awards

### Round 4

Ashvin Goel, ECE

Michael Gruninger, MIE

Olivera Kesler, MIE

David Lie, ECE

Radhakrishnan Mahadevan, ChemE

## Round 5

Edgar Acosta, ChemE

Axel Guenther, MIE

Emma Master, ChemE

Joyce Poon, ECE

## NSERC Accelerator Grants

Hans-Arno Jacobsen, ECE

Olivera Kesler, MIE

Jean Zu, MIE

## Renewed Canada Research Chairs 2008–2009

### Chair in Quantum Information

Hoi-Kwong Lo, ECE

### Chair in Polymer Processing Technologies

Chul Park, MIE

## New Canada Research Chairs 2008–2009

### Chair in Diffusion-Wave Sciences and Technologies

Andreas Mandelis, MIE

### Chair in Micro- and Nano-Engineering Systems

Yu Sun, MIE

## 2009 NSERC RTI Grants

Constantin Christopoulos, CivE

Charles Jia, ChemE

Philippe Lavoie, UTIAS

Peter Lehn, ECE

James Mills, MIE

Shamim Sheikh, CivE

Craig Simmons, MIE

Brent Sleep, CivE

Kaiwen Xia, CivE

Jean Zu, MIE

## **2009 Ontario Research Fund Research Excellence**

Congratulations to the two faculty members whose research teams were awarded ORF-RE grants. Their names have not yet been officially announced.

## **NSERC CREATE**

Congratulations to the three faculty members whose research teams were awarded NSERC CREATE grants. Their names have not yet been officially announced.

## **Heart & Stroke Career Investigator Award (Renewal)**

David Steinman, MIE

## **NSERC Discovery Grants**

Congratulations to the 52 Engineering faculty members who were awarded NSERC Discovery grants in 2009.

## **Genome Canada**

Elizabeth Edwards, ChemE: BEEM: Bioproducts and Enzymes from Environmental Metagenomes

Co-investigators: Emma Master, ChemE; Krishna Mahadevan, ChemE; Doug Reeve, ChemE; Bradley Seville, ChemE; Charles Mims, ChemE; Heather MacLean, CivE

# Engineering Professor Appointed Distinguished Professor in Plasma Engineering

MIE Professor Javad Mostaghimi was appointed University of Toronto Distinguished Professor in Plasma Engineering for a five-year term that began Jan. 1, 2009.

Designed to advance and recognize faculty with highly distinguished accomplishments and who display exceptional promise, the prestigious University of Toronto Distinguished Professor awards are limited to no more than 3% of the tenured faculty in a Faculty.

Professor Mostaghimi's main research interests are the study of thermal spray coatings, transport phenomena and electromagnetics in thermal plasma sources. He has published more than 100 papers in refereed journals and has been cited approximately 1,500 times. His research has also resulted in four patents. In 1998, he founded the Centre for Advanced Coating Technologies (CACT), which is internationally recognized for its fundamental and applied multidisciplinary research in thermal spray coatings.

From 2002-2006 he served as the Vice-Dean, Research and Graduate Studies for the Faculty of Applied Science and Engineering, overseeing a nearly 50% increase in the number of doctoral students in the Faculty and coordinating the creation and implementation of a number of international agreements.

Professor Mostaghimi is a Fellow of the American Society of Mechanical Engineers, the Canadian Society for Mechanical Engineering, and the International Union of Pure and Applied Chemistry. He is a Senior Fellow at both Massey College and the Institute for Advanced Studies, University of Bologna. In addition, he is currently a member of the Advisory Board of the Ontario Research Fund and the Board of Management of the Centre for Materials and Manufacturing – Ontario Centres of Excellence.

During the term of the Distinguished Professor Award Professor Mostaghimi proposes to focus on the impact and solidification of metal droplets in thermal spray



coating procedures. Increased understanding of the thermal spray process could lead to more effective methods of protecting combustion engines and turbines from heat, improving their thermal efficiency and resulting in substantial savings in fuel and lower emissions of greenhouse gases.

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