

### 3. Awards and Honours

The Faculty received a record number of major awards and honours in 2008. In fact, the U of T Engineering Faculty is disproportionately recognized for its excellence. We account for 5.1% of all national Engineering faculty and received 31% of all major international and national awards.

The success of our awards program has been enhanced by the newly created Faculty Committee on Nominations for Honours and Awards chaired by Michael Charles, Professor and Dean Emeritus and supported by a full-time staff position. The Committee's dedicated efforts have raised the Faculty's profile among Canada's top Engineering organizations, such as the Engineering Institute of Canada, the Canadian Academy of Engineering, and Professional Engineers Ontario. Their work continues to produce excellent results: from January to July 2009 our scholars have already received 21 major awards.

The University of Toronto and the Faculty of Applied Science and Engineering also recognize the outstanding contributions of staff, faculty, and alumni. Awards and honours are presented in a range of categories, including: outstanding contributions by staff; exceptional early performance and distinction in research; excellence in teaching early in a faculty members' career; and overall excellence in teaching.

## Summary of Selected Major Awards September 2007 to April 2009

Prestigious awards and honours are an important measure of scholarly excellence in research, teaching, and service to the profession. Receiving such honours from both national and international bodies is an indication of excellence.

### Major International Awards and Recipients

**ASME Heat Transfer Memorial Award**

Cristina Amon, MIE

**Campus Representative Award:****American Society for Engineering Education**

Susan McCahan, MIE

**Computer Award: Institute of  
Electrical and Electronics Engineers**

K.C. Smith, ECE

**Excellence in Clinical Engineering Leadership  
Award: American  
College of Clinical Engineering**

Tony Easty, IBBME

**Fellow: American Association  
for the Advancement of Science**

Grant Allen, ChemE; Brendan Frey, ECE;  
M.J. Phillips, ChemE; Chris Yip, ChemE;  
Peter Zandstra, IBBME; Jean Zu, MIE

**Fellow: American Institute for  
Medical and Biological Engineering**

Paul Santerre, IBBME;  
Peter Zandstra, IBBME

**Fellow: American Institute of  
Aeronautics and Astronautics**

Peter Hughes, UTIAS

**Fellow: American Society of  
Mechanical Engineers**

Ross Ethier, MIE; Masahiro Kawaji,  
ChemE; Shaker Meguid, MIE;  
Jean Zu, MIE

**Fellow: Association for  
Computing Machinery**

Jonathan Rose, ECE

**Fellow: Institute of Electrical and Electronics  
Engineers**

Francis Dawson, ECE; Brendan Frey,  
ECE; Jorg Liebeherr, ECE;  
Jonathan Rose, ECE

**Fellow: International Union of  
Societies for Biomaterials Science  
and Engineering**

Molly Shoichet, ChemE

**Fellow: University of Tokyo  
School of Engineering**

Javad Mostaghimi, MIE

**Foreign Member:  
Royal Academy of Spain**

Cristina Amon, MIE

**Founders Award:  
Society for Biomaterials**

Michael Sefton, IBBME

**IBM Faculty Award: IBM**

Andreas Moshovos, ECE

**International Hall of Fame:  
The Paper Industry**

Doug Reeve, ChemE

**KAUST Global Research  
Partnership Award: King  
Abdullah University of Science  
and Technology**

Ted Sargent, ECE

**Kiyo Tomiyasu Award: Institute of  
Electrical and Electronics Engineers**

George Eleftheriades, ECE

**Senior Prize: International Photoacoustic and  
Photothermal Association**

Andreas Mandelis, MIE

**Sloan Research Fellowship:  
Alfred P. Sloan Foundation**

Aaron Wheeler, IBBME

**Top 35 Innovators Under 35: MIT Technology  
Review**

Milica Radisic, ChemE

**Women Engineer Inaugural Award:  
Electronics and Photonics  
Packaging Division**

Cristina Amon, MIE

**Yeram S. Touloukian Award:  
American Society of Mechanical  
Engineers**

Andreas Mandelis, MIE

**Young Investigator Award: NARSAD**

Julie Audet, IBBME

## Major National Awards and Recipients

**Alouette Award: Canadian Space Agency**  
Robert Zee, UTIAS

**Award for Innovation: Canadian Manufacturers and Exporters**  
James Smith, ChemE

**Canada Medal: Society of Chemical Industry**  
Brian Wastle, ChemE 6T7

**Canada's Top 40 Under 40: Caldwell Partners**  
Paul Salvini, CivE; Peter Zandstra, IBBME

**Canadian Materials Physics Gold Medal Award: Canadian Institute of Mining, Metallurgy and Petroleum**  
Doug Perovic, MSE

**Canadian Metal Chemistry Award: Canadian Institute of Mining, Metallurgy and Petroleum**  
Stavros Argyropoulos, MSE

**Engineers Canada Gold Medal**  
Morden Yolles, CivE 4T8

**Engineers Canada Medal of Distinction**  
Susan McCahan, MIE

**E.W.R. Steacie Fellowship: NSERC**  
Brendan Frey, ECE

**Excellence in Innovation in Civil Engineering Award: Canadian Society for Civil Engineering**  
Jeffrey Packer, CivE; Constantin Christopoulos, CivE; Carlos de Olivera, CivE

**Fellow: Canadian Academy of Engineering**  
Barry Adams, CivE; Cristina Amon, MIE; William Bawden, CivE; Michael Collins, CivE; Levente Diosady, ChemE; Masahiro Kawaji, ChemE; Alex McLean, MSE; Javad Mostaghimi, MIE; Doug Perovic, MSE; Jonathan Rose, ECE; Willem Vanderburg, CivE

**Fellow: Canadian Institute of Food Science and Technology**  
Levente Diosady, ChemE

**Fellow: Canadian Society for Mechanical Engineering**  
Cristina Amon, MIE; Javad Mostaghimi, MIE; Hani Naguib, MIE; Yu Sun, MIE

**Fellow: Chemical Institute of Canada**  
Grant Allen, ChemE; Graeme Norval, ChemE

**Fellow: Engineering Institute of Canada**  
Barry Adams, CivE; Cristina Amon, MIE; Michael Charles, ChemE; Michael Collins, CivE; Mark Fox, MIE; Alberto Leon-Garcia, ECE; Jim Wallace, MIE

**Fellow: Royal Society of Canada**  
George Eleftheriades, ECE; Molly Shoichet, ChemE; Paul Young, CivE

**Fred Beamish Award: Canadian Society for Chemistry**  
Aaron Wheeler, IBBME

**International Award: Society of Chemical Industry**  
Larry Seeley, ChemE 7T2

**John S. Bates Memorial Gold Medal: Canadian Pulp and Paper Association**  
Donald B. Mutton, ChemE 4T9, PhD 5T3

**John H. Chapman Award of Excellence: Canadian Space Agency**  
Peter Hughes, UTIAS

**Jules Stachiewicz Medal: Canadian Society for Mechanical Engineering**  
Charles Ward, MIE

**Kalev Pugi Award: Society of Chemical Industry**  
Stephen Dunn, ChemE 7T1

**Killam Prize: Canada Council for the Arts**  
Michael Sefton, IBBME

**Killam Research Fellowship: Canada Council for the Arts**  
Elizabeth Edwards, ChemE; Molly Shoichet, ChemE

**LeSueur Memorial Medal: Society of Chemical Industry**  
David Boocock, ChemE

**Medal for Outstanding Achievement in Industrial and Applied Physics: Canadian Association of Physicists**  
Andreas Mandelis, MIE

**Order of Canada (Member): Governor General of Canada**  
Barry French, UTIAS

**Robert W. Angus Medal: Canadian Society for Mechanical Engineering**  
Chul Park, MIE

**Wighton Fellowship: Sanford Fleming Foundation**  
Paul Jowlabar, ChemE

## Major Provincial Awards and Recipients

**Engineering Medal for Entrepreneurship: Professional Engineers Ontario**  
Howard Goodfellow, ChemE 6T4

**Engineering Medal for Management: Professional Engineers Ontario**  
Jan Carr, ECE 6T8; Lloyd McCoomb, CivE 6T8

**Engineering Medal for Research and Development: Professional Engineers Ontario**  
Greg Evans, ChemE; Nazir Kherani, ECE; Javad Mostaghimi, MIE; Chul Park, MIE; Milos Popovic, IBBME

**George Warren Fuller Award: Ontario Water Works Association**  
Robert Andrews, CivE

**Gold Medal: Professional Engineers Ontario**  
Walter Curlook, MMS 5T0, MAsc 5T1, PhD 5T3, Hon. Doc. 0T2; Anne Sado, MIE 7T7

**Leadership in Faculty Teaching Award: Province of Ontario**  
Yu-Ling Cheng, ChemE

**Young Engineer Medal: Professional Engineers Ontario**  
Constantin Christopoulos, CivE; Dwayne Shirley, MSE

**Figure 3.1**  
**Summary of Major International, National and Provincial Awards and Honours**  
**2000–2009**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009 <sup>(1)</sup>
<b>International</b>										
AAAS Fellowship*						1	1	2	4	
Guggenheim Fellowship*					1			1		
MIT Top 35 Under 35				1		1			1	
NAE Fellowship*						1	1			
<b>National</b>										
3M Teaching Fellowship*								1		
Alan Blizzard Award								1		
Canada's Top 40 Under 40				1			2	2	2	
CAE Fellowship						3	2	1	3	9
EIC Fellowship					1		2	2	3	4
Killam Research Fellowship*									2	
Killam Prize*				1					1	
Royal Society of Canada Fellowship*	1	1		2		1	1	1	1	1
Steacie Fellowship*				2	1	1				1
Synergy Award for Innovation					1	1				1
<b>Provincial</b>										
PEO Medals			1	1	1	4	2	3	5	5
<b>Total</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>8</b>	<b>5</b>	<b>13</b>	<b>11</b>	<b>14</b>	<b>22</b>	<b>21</b>

**Note:** (\*) Denotes U of T Performance Indicator. (1) Data for 2009 are from January to July. Includes faculty and alumni award recipients.

**\*AAAS Fellowship**

Recognition for meritorious efforts to advance science or its applications from the American Association for the Advancement of Science.

**\*Guggenheim Fellowship**

Intended for men and women who have demonstrated exceptional capacity for productive scholarship.

**MIT Top 35 Under 35**

Awarded to world's top 35 young innovators under the age of 35 by MIT Technology Review magazine.

**\*NAE Fellowship**

Election to the National Academy of Engineering is among the highest professional distinctions accorded to an engineer.

**\*3M Teaching Fellowship**

Canada's highest teaching award in recognition of teaching excellence and educational leadership.

**Alan Blizzard Award**

In recognition of exemplary collaboration in university teaching as it enhances student learning.

**Canada's Top 40 Under 40**

Honours top 40 Canadians who have reached a significant level of success prior to age 40.

**CAE Fellowship**

The Canadian Academy of Engineering elects Fellows for distinguished achievements and career-long service to the engineering profession.

**EIC Fellowship**

Engineering Institute of Canada recognizes exceptional contributions to engineering in Canada and for service to the profession and to society.

**\*Killam Research Fellowship**

Awarded by the Canada Council for the Arts to an established scholar who has demonstrated outstanding research ability and has published research results in substantial publications in their field. Recipients have the opportunity to devote two years to full-time research as part of this Fellowship.

**\*Killam Prize**

Awarded by the Canada Council for the Arts to distinguished Canadian scholars doing research in one of five fields of study, including engineering.

**\*Royal Society of Canada Fellowship**

Highest Canadian honour a scholar can achieve in the arts, humanities and sciences.

**\*Steacie Fellowship**

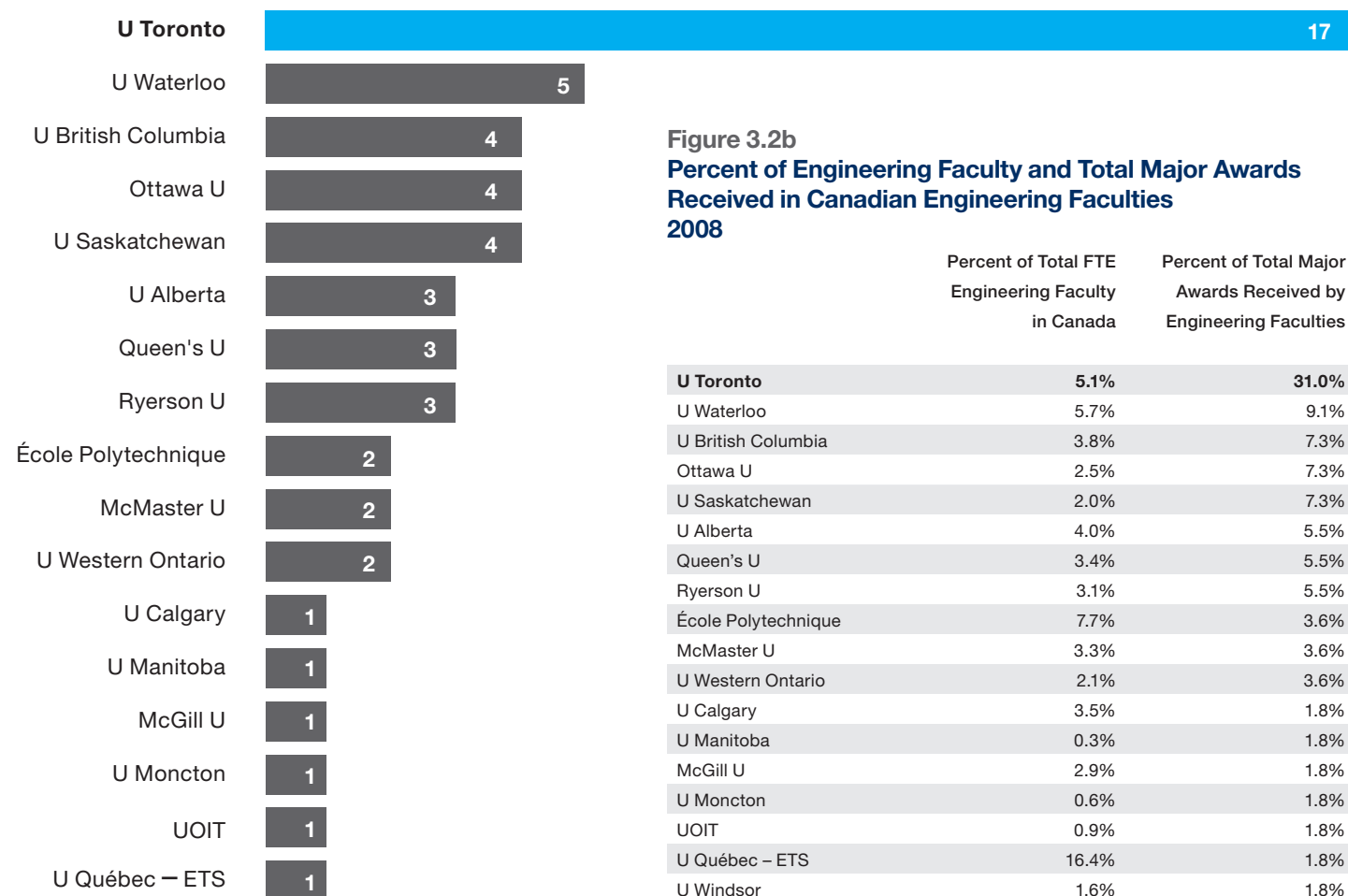
Awarded by NSERC to enhance the career development of outstanding and highly promising scientists and engineers.

**Synergy Award for Innovation**

Recognizes examples of university-industry collaboration that stand as a model of effective partnership.

**Figure 3.2a**  
**Number of Awards Received by U of T Engineering Compared to Other Canadian Engineering Faculties 2008**

U of T Engineering received 5 major international awards and 12 national awards, which is 31% of all major awards received by Engineering Faculties in Canada.



**Figure 3.2b**  
**Percent of Engineering Faculty and Total Major Awards Received in Canadian Engineering Faculties 2008**

	Percent of Total FTE Engineering Faculty in Canada	Percent of Total Major Awards Received by Engineering Faculties
U Toronto	5.1%	31.0%
U Waterloo	5.7%	9.1%
U British Columbia	3.8%	7.3%
Ottawa U	2.5%	7.3%
U Saskatchewan	2.0%	7.3%
U Alberta	4.0%	5.5%
Queen's U	3.4%	5.5%
Ryerson U	3.1%	5.5%
École Polytechnique	7.7%	3.6%
McMaster U	3.3%	3.6%
U Western Ontario	2.1%	3.6%
U Calgary	3.5%	1.8%
U Manitoba	0.3%	1.8%
McGill U	2.9%	1.8%
U Moncton	0.6%	1.8%
UOIT	0.9%	1.8%
U Québec – ETS	16.4%	1.8%
U Windsor	1.6%	1.8%

**Note:** The following major awards are included above: International – AAAS Fellowship (Engineering Section), MIT Top 35 Under 35, NAE Fellowship; National – Canada's Top 40 Under 40, CAE Fellowship, EIC Fellowship, Killam Prize (Engineering), Royal Society of Canada Fellowship (Engineering/Physical Sciences), Steacie Fellowship, Synergy Awards for Innovation.

The following Canadian Universities have accredited Engineering programs:

- University of Alberta
- University of British Columbia
- University of Calgary
- Carleton University
- Concordia University
- Dalhousie University
- University of Guelph
- Lakehead University
- Laurentian University
- Université Laval
- University of Manitoba
- McGill University
- McMaster University
- Memorial University of Newfoundland
- Université de Moncton
- Université du Québec à Montréal
- University of New Brunswick
- University of Northern British Columbia
- University of Ontario Institute of Technology
- University of Ottawa
- École Polytechnique
- Université du Québec en Abitibi-Témiscamingue
- Université du Québec à Chicoutimi
- Université du Québec – École de Technologie Supérieure (ETS)
- Université du Québec en Outaouais
- Université du Québec à Rimouski
- Université du Québec à Trois-Rivières
- Queen's University
- University of Regina
- Royal Military College of Canada
- Ryerson University
- University of Saskatchewan
- Université de Sherbrooke
- Simon Fraser University
- University of Toronto
- University of Victoria
- University of Waterloo
- University of Western Ontario
- University of Windsor
- York University

## Summary of University of Toronto Awards Received by Engineering September 2007 to April 2009

### Arbor Award

Caprice Boisvert, MIE 9T3; Roland Bergman, MSE 5T5;  
Sydney C. Cooper, CivE 4T5; Dave Fenwick, EngBus 5T3;  
Joseph Paul Grieco, CivE 7T0; Claire Kennedy, ChemE 8T9;  
Murray Metcalfe, IndE 7T7; Larry Seeley, ChemE 6T6, MASC 6T8,  
PhD 7T2; Som Seif, IndE 9T9; Arshia Tabrizi, ECE 9T5; Bill  
Troost, ChemE 6T7; Paul Walters, MinE 5T6; Bert Wasmund,  
ChemE PhD 6T6; William C. Winegard, MSE 4T9, MASC 5T0,  
PhD 5T2, Hon. Doc. Law 7T3

### Breaking the Glass Ceiling Award

Milica Radisic, ChemE

### Carolyn Tuohy Impact on Public Policy Award

Doug Reeve, ChemE

### Chancellor's Award

Barbara McCann, Faculty Registrar

### Faculty Award

David Zingg, UTIAS

### Joan E. Foley Quality of Student Experience Award

Greg Evans, ChemE

### McLean Award

Peter Zandstra, IBBME

### Northrop Frye Award

Bryan Karney, CivE

### President's Teaching Award

Yu-Ling Cheng, ChemE

### Stepping Up Award

Alina Balosin; Helen Bright; Dani Couture; Khuong Doan;  
Pierina Filippone; Catherine Gagne; Steve Martin; Sergei  
Metropolitansky; Dan Pettigrew; Austra Ozolins; Nelly Pietrepaolo;  
Jean Robertson; Sean Suleman; Alex Tichine; Georgette Zintay

### TATP Teaching Excellence Award

Vinod Muthusamy, ECE

### Vivek Goel Faculty Citizenship Award

Ron Venter, MIE

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### Note:

#### Arbor Award

The University of Toronto Alumni Association recognizes volunteers for outstanding personal service to the University.

#### Breaking the Glass Ceiling Award

Women in Science and Engineering at U of T celebrates outstanding accomplishments of women professors.

#### Carolyn Tuohy Impact on Public Policy Award

The University of Toronto Alumni Association recognizes excellence in teaching, research, and the impact of scholarship on public policy.

#### Chancellor's Award

The University of Toronto Alumni Association presents this award for outstanding contributions by an administrative staff member.

#### Faculty Award

Presented by the University of Toronto Alumni Association for excellence in teaching, research, and professional endeavours.

#### Joan E. Foley Quality of Student Experience Award

The University of Toronto Alumni Association presents this award to a student, alumni, administrative staff or faculty member who has made significant contribution to improving the quality of academic or extracurricular student life on campus.

#### McLean Award

Prestigious award for early-career researchers at U of T.

#### Northrop Frye Award

Presented by the University of Toronto Alumni Association to a faculty member in recognition of distinguished achievements in linking teaching and research.

#### President's Teaching Award

Recognizes sustained excellence in teaching, research in teaching, and the integration of teaching and research.

#### Stepping Up Award

Recognizes staff who contribute to one of the U of T academic plan's five major goals: enhancing the student experience; interdisciplinary activity; linking academic programs to research experiences; outreach; and equity and diversity.

#### TATP Teaching Excellence Award

The University's Teaching Assistant's Training Program recognizes the impact of excellent teaching assistants each year.

#### Vivek Goel Faculty Citizenship Award

Presented by the University of Toronto Alumni Association for distinction in multiple leadership committees, governance bodies, and external organizations complementary to the University's academic mission.

## Summary of U of T Engineering Awards 2001–2009

### Faculty Teaching Award

The highest teaching tribute awarded by the Faculty.

2009	John Carter	ECE
2008	Tarek Abdelrahman	ECE
2007	Raviraj Adve	ECE
2006	Frank Kschischang	ECE
2005	Ross Ethier	MIE
2004	Kim Pressnail	CivE
	Z.G. Vranesic	ECE
2003	David Kuhn	ChemE
2002	Bryan Karney	CivE
2001	Tony Sinclair	MIE

### Early Career Teaching Award

In recognition of excellence in teaching early in a career.

2009	Craig Simmons	MIE
2008	Hani Naguib	MIE
2007	Wei Yu	ECE
2006	Ali Sheikholeslami	ECE
2005	Evan Bentz	CivE
2004	Paul Gauvreau	CivE
2003	Parham Aarabi	ECE
2002	R. Ben Mrad	MIE
2001	Baher Abdulhai	CivE

### McCharles Prize for Early Career Research

This award was re-introduced in 2008 to recognize exceptional performance and distinction in research early in a career. Originally established in 1907 with a gift from Aeneas McCharles, this award will be presented again in 2010 and then every three years.

2008	Wei Yu	ECE
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### Agnes Kaneko Award

Presented to a staff member who has made an outstanding contribution to the Faculty over an extended period of time. This award was established in memory of Agnes Kaneko, a Civil Engineering staff member who was known for her excellent work and dedication to the Faculty.

2009	Renzo Basset	CivE
2008	Linda Espeut	ECE
2007	Brenda Fung	MIE
2006	Peter Leesti	CivE
2005	Sandra Walker	EngSci
2005	Yvonne MacNeil	IBBME
2004	Kelly Chan	ECE
2003	Bob Manson	ECF
2002	Ella Lund-Thomsen	ECE
2001	Teresa Miniaci	MSE