AWARDS

By Nicole Axworthy

Adjeleian Allen Rubeli received the **Heritage Award for Buildings** from the **Institution of Structural Engineers** in the UK. The Ottawa structural engineering firm won the award for its work on the refurbishment of Canada's Library of Parliament. The judges were impressed by the reconstruction of the historic Ottawa building, which involved excavating a new basement and replacing 76 columns with 12. **Michael Petrescu-Comnene, P.Eng.,** was in charge of the project.

Twenty-two people have been inducted as **fellows** of the **American Society of Heating, Refrigerating and Air-Conditioning Engineers** this year. Among them are **Fariborz Haghighat, PhD, P.Eng.,** professor, department of building, civil and environmental engineering, Concordia University, Montreal, and **T. David Underwood, P.Eng.,** president, Isotherm Engineering, Mississauga.

Two University of Toronto (U of T) professors have been chosen to receive awards from the Canada Council for the Arts' Killam Program. **Elizabeth Edwards, PhD, P.Eng.,** professor, department of chemical engineering and applied chemistry, is a recipient of a **Killam Research Fellowship**, giving her $70,000 a year for two years to continue her research on bioremediation. Her project will look at the DNA from complex, naturally occurring communities of microorganisms that detoxify pollutants. The fellowships are given to Canadian researchers with the expectation that they will continue to contribute to the Canadian research community.

Michael V. Sefton, P.Eng., professor and international leader in the area of biomedical engineering, biomaterials and regenerative medicine, is a recipient of a **$100,000 Killam Award**. Sefton was one of the first to recognize the importance of combining living cells with synthetic substances to create artificial organs and tissues–a field now known as tissue engineering. His work led to the discovery of therapeutic biomaterials that exploit biological responses to create innovative medical devices. The Killam Award is given to distinguished Canadian scholars in the fields of health sciences, natural sciences, engineering, social sciences and humanities.

Peter Zandstra, PhD, P.Eng., professor, Institute of Biomaterials and Biomedical Engineering, U of T, has been named one of **Canada's Top 40 Under 40** for his work as a Canada research chair in stem cell bioengineering. His research has led to advances in tissue and cellular engineering, gene therapy and organ transplantation. Founded and managed by Caldwell Partners, the Top 40 Under 40 distinction is awarded annually to 40 people under 40 years old who are leaders in their fields.

Associated Engineering Group Ltd. and **Wardrop Engineering Inc.** have been recognized as two of the **Top 20 Best Employers for New Canadians** by Mediacorp Canada Inc. and the editors of *Canada's Top 100 Employers*, in partnership with the Toronto Region Immigrant Employment Council. The companies honoured were recognized for setting the standard in hiring internationally trained immigrants, and ensuring a smooth transition into the Canadian workforce. Associated Engineering helps new Canadian employees obtain their P.Eng. licence by providing training and mentoring to ensure they meet Canadian work experience and educational requirements for licensure, and encourages them to enroll in a special business communication program through a local college. Wardrop also helps its internationally educated employees obtain their licences, recruits new Canadian jobseekers from agencies that provide services to immigrants, and provides onsite English language instruction and cross-cultural training.

A number of P.Engs have been elected as **fellows** of the **Engineering Institute of Canada** for their services to the profession and society. They are **Michael Charles,**

University of Toronto Professor Elizabeth Edwards, PhD, P.Eng., is a recipient of a Killam Research Fellowship worth $140,000.

University of Toronto Professor Michael Sefton, P.Eng., is a recipient of a $100,000 Killam Award.

University of Toronto Professor Peter Zandstra, PhD, P.Eng., has been named one of Canada's Top 40 Under 40.

P.Eng., dean emeritus, faculty of applied science and engineering, U of T; **Xianguo Li, P.Eng.,** professor, mechanical engineering, University of Waterloo (U of W); **Alistair Mackenzie, P.Eng.,** instructor and consultant, Ryerson University; **Raafat Mansour, P.Eng.,** professor, electrical and computer engineering, U of W; **Patrick Oosthuizen, P.Eng.,** professor emeritus, Queen's University; **Paresh Sen, P.Eng.,** emeritus professor, electrical engineering, Queen's University; **Gregory Stone, P.Eng.,** director, research, Iris Power LP; and **Bin Wu, P.Eng.,** professor, Ryerson University.

The **Canadian Institute of Steel Construction** has announced the winners of the **18th Annual Ontario Steel Design Awards**. The **Architectural Award of Excellence** and the **Green Buildings Award of Merit** went to the Southbrook Winery. The project's structural engineering firm is **Blackwell Bowick Partnership**, and its fabricator is **Mirage Steel**. The **Architectural Award of Merit** went to Fort Erie's Peace Bridge Plaza. The project's architectural firm is **Norr Limited Architects & Engineers** and its structural engineering firm is **Blackwell Bowick Partnership**. The **Engineering Award of Excellence** went to Rogers Sportsnet. The project's structural engineering firm is **Halsall Associates** and its fabricator is **Benson Steel**. The **Green Buildings Award of Excellence** went to the Kingston LVEC Arena. The project's fabricator is **Benson Steel**.

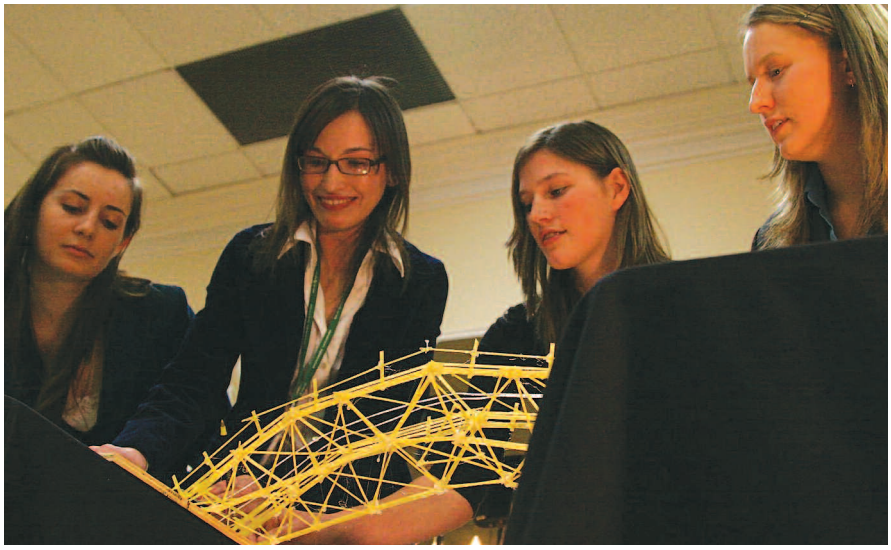
Several Ontario universities recently presented awards to faculty and university alumni. **McMaster University** presented the **L.W. Shemilt Distinguished Engineering Alumni Award** to **Kurt Strobele, PhD, P.Eng.,** president and CEO, Hatch, Mississauga. The award was established in 2006 to recognize the contributions of leading faculty alumni.

U of T presented a 2008 **President's Teaching Award** and accompanying membership in the university's Teaching Academy to **Yu-Ling Cheng, PhD, P.Eng.,** professor, department of chemical engineering and applied chemistry, in recognition of her career commitment to teaching excellence. Since joining U of T in 1989, Cheng played a key role in the design of the biomedical option in engineering science in 1995, and later, as chair of the division of engineering science, she successfully oversaw significant enrolment expansion, led the development of an ambitious academic plan and spearheaded curriculum renewal. She has received numerous teaching awards for her work over the years.

The **University of Toronto Alumni Association** presented the **Joan E. Foley Quality of Student Experience Award** to **Greg Evans, PhD, P.Eng.,** professor, department of chemical engineering and applied chemistry. The award recognizes the efforts of a member of the university community who has made a significant contribution to improving the quality of academic or extracurricular student life on campus. Evans is also director of the university's Southern Ontario Centre of Atmospheric Aerosol Research and former vice-dean, undergraduate, of the faculty of applied science and engineering.

U of W presented a 2007 **Faculty of Engineering Teaching Excellence Award** to **Wayne Brodland, PhD, P.Eng.,** professor, civil and environmental engineering, and an **Award of Excellence in Graduate Supervision** to **Keith Hipel, PhD, P.Eng.,** professor, systems design engineering. The university's **50th Anniversary Alumni Awards** were also presented to several P.Engs to highlight the impact graduates have had on the university and to mark the school's 50th anniversary: **Arthur Church, P.Eng., Larry Galajda, P.Eng., Donald Haycock, P.Eng., Paul Koch, P.Eng., Paul Koenderman, P.Eng., Bill Lennox, P.Eng.,** and **Vivienne Ojala, P.Eng.**

The **Canadian Engineering Memorial Foundation** (CEMF) has announced the 2008 winners of its national scholarship program. **Joanne Bailey**, mechanical engineering student, McMaster University, is the recipient of the **AMEC Masters Scholarship in Engineering**. The scholarship is worth $10,000 and includes summer employment at an AMEC office in Canada. Third-year Lakehead University chemical engineering student **Deanna Burgart**



Students work on a team challenge at this year's Canadian Engineering Competition. Photo by Graeme Roche.

is the winner of the **AMEC Aboriginal Undergraduate Scholarship** worth $5,000. **Kim Jusek**, third-year environmental engineering student, University of Guelph (U of G), is the recipient of the $5,000 **CEMF Undergraduate Engineering Scholarship**. Two Ontario engineering students are recipients of the $2,500 **Hewlett Packard Undergraduate Scholarship**: **Megan Fill**, third-year chemical engineering student, Queen's University, and **Julie Ladiges**, third-year electrical engineering student, University of Western Ontario (UWO).

The **Ontario Professional Engineers Foundation for Education Gold Medal** was presented to **Tanya Starret**, McMaster University, in February. Other Gold Medal winners include **N.D. Deloyer**, Royal Military College of Canada, **Victoria Lee**, Queen's University, **Jeremy Martin**, U of G, and **Marcus Yip**, U of T. The foundation awards the medal to the engineering graduate of each accredited university with the highest academic standing in his or her final-year exams. The foundation is an independent, non-profit, charitable organization. It provides scholarships–financed by donations from Ontario professional engineers–to encourage engineering students to pursue careers in the profession.

University engineering students from across the country gathered to compete in the **Canadian Engineering Competition 2008**, March 6 to 9 in Waterloo. There were several winning teams from Ontario. **Queen's University** won first place in the senior team design challenge and second place in the innovative design challenge. **U of T** won third place in the consulting engineering challenge. **U of W** won second place in the extemporaneous debates challenge. **UWO** won third place in the extemporaneous debates challenge. And **U of G** won the Social Awareness Award in team design engineering.

UMA and the **Canadian Society for Civil Engineering** (CSCE) have announced the winners of the first annual **Sustainable Asset Management Student Competition**, launched in 2007 to encourage post-secondary students to explore the interdisciplinary field of sustainable asset management. Students were required to prepare a 4000-word research paper on civil infrastructure management topics, such as performance models, policy analysis, information systems or social costs and benefits. Second place went to U of W's **Wail Menesi** and **Alondra Chamorro**. Their research used evolutionary algorithms to optimize expenditures on roadway repair and rehabilitation and link decisions to strategic planning goals of the organization. Winners received a cash prize and were given the opportunity to present their findings at the CSCE's annual conference in Quebec City.

U of G students **Micha Wallace, Anina Sakaguchi, Katie Bell** and **Andrew Morris** were recognized as the

George Comrie, P.Eng., presents an Ontario Professional Engineers Foundation for Education Gold Medal to Tanya Starret of McMaster University.

runner-up team for the **James Dyson Award** for their design of a single-handed bike brake lever–inspired by a nine-year-old girl who only has part of one hand. The team won the Dyson Canada Design Competition in February and the chance to compete internationally for the James Dyson Award. The award is supported by the James Dyson Foundation, a registered charity that aims to inspire and excite young people about design engineering. This year, 14 countries from around the globe put their local award winners forward to battle it out for the design accolade.

UWO integrated engineering student **Mark Cicero** has won the 2008 **Minerva Canada-James Ham Safe Design Award**. He scored the top prize for designing a safety management audit training database system that assisted his summer employer in making its employees more aware and responsive to workplace hazards. His system has been used to collect data, eliminate recurrent safety issues and thus prevent employee injuries. The award honours the late James Milton Ham, P.Eng., whose Royal Commission Report on health and safety led to the creation of Ontario's *Occupational Health and Safety Act* in 1979.

From left: Dyson Canada President Andrew Robinson, University of Guelph student Micha Wallace and James Dyson, of Dyson vacuum cleaner fame.