

ENGINEERS AND STUDENTS WIN BIG

By Nicole Axworthy



Goldie Nejat, PhD, P.Eng., and Mohinder Grover, P.Eng., FEC, are presented with 2013 Engineers Canada Awards from then President Catherine Karakatsanis, P.Eng., FEC.



William Goodings, P.Eng., was presented with CEO's inaugural Chairman's Award for Career Commitment in April.

TWO PEO MEMBERS have been presented with 2013 Engineers Canada Awards. Goldie Nejat, PhD, P.Eng., assistant professor, department of mechanical and industrial engineering, University of Toronto (U of T), received the Young Engineer Achievement Award. The founder and director of U of T's Autonomous Systems and Biomechanics Laboratory, Nejat is researching the development of intelligent, assistive robotic aids that can help find victims in disasters, improve the quality of patient care and transform the function of hospital wards and nursing and veterans' homes. Mohinder S. Grover, PhD, P.Eng., FEC, won the Meritorious Service Award for Community Service. An electrical engineer, Grover has spent over 30 years helping immigrants transition to Canadian life and has volunteered on PEO's Experience Requirements Committee for 13 years. Both Grover and Nejat are previous recipients of Ontario Professional Engineers Awards.

Consulting Engineers of Ontario (CEO) announced the top winners of the 2013 Ontario Consulting Engineering Awards. CEO's top prize, the Willis Chipman Award, went to Adjeleian Allen Rubeli Ltd. for its work on the Ottawa Convention Centre. Awards of Excellence went to: The Municipal Infrastructure Group Ltd. in the 26- to 50-employee category, for its Elm Drive West project in Mississauga; Associated Engineering (Ont.) Ltd. in the 50- to 100-employee category, for its Avenue Road watermain project in Toronto; and Stantec Consulting in the 351 or more employee category, for its retention treatment basin on Windsor's waterfront. Awards of Merit went to: Enermodal Engineering in the industry, energy and resources category, for its off-grid generating station renewal and solar RV retrofit in Wawakapewin First Nations community; Morrison Hershfield in the studies and research category, for a project called "Standardization of the design and construction of aquatic compensation measures"; and Dillon Consulting Limited in the transportation category, for its Terry Fox Drive extension in Kanata.

CEO also presented its inaugural Chairman's Award for Career Commitment to William Goodings, P.Eng. Goodings has more than 55 years of experience as an engineering consultant specializing in solid waste manage-

ment for the private and public sectors in Canada and overseas. A lifetime volunteer, Goodings served as CEO chair in 1987-1988 and is a past secretary of the Ontario Society of Professional Engineers. The award recognizes an individual who contributes to the consulting engineering sector and volunteers his or her time and skills over the course of a career.



From left, Catherine Karakatsanis, P.Eng., FEC, Diane Freeman, P.Eng., FEC, Márta Ecsedi, P.Eng., FEC, and Nancy Hill, LLB, P.Eng., FEC, were recognized by the Ontario Women's Directorate.

The Ontario Women's Directorate (OWD) recently recognized Márta Ecsedi, P.Eng., FEC, chair of PEO's Equity and Diversity Committee and a past PEO councillor; Diane Freeman, P.Eng., FEC, PEO's 2010-2011 president; Nancy

[AWARDS]



Ann Sado, P.Eng., president, George Brown College (right), receives her Ontario Women's Directorate award from Donna Cansfield, MPP (Etobicoke Centre).



Winning projects of the Consulting Engineers of Ontario awards include Adjeleian Allen Rubeli's work on the Ottawa Convention Centre and The Municipal Infrastructure Group's work on the Avenue Road watermain in Toronto.

Hill, LLB, P.Eng., FEC, chair of PEO's Complaints Committee and a past PEO councillor; Catherine Karakatsanis, P.Eng., FEC, 2012-2013 president of Engineers Canada and PEO's 2009-2010 president; Anne Sado, P.Eng., president, George Brown College, and Jeannette Southwood P.Eng., FEC, past chair of PEO's Awards Committee. Nominated by their members of provincial parliament, they are the first engineers of over 300 women who have received the award since OWD's founding in 2006. The OWD awards honour the strengths, achievements and diversity of women and girls in Ontario and recognize the important contributions they make to their communities.

Minerva Canada Safety Management Education Inc. has announced the winners of its 2013 James Ham Safe Design Award Competition. U of T engineering students Sherri Cui and Shen Wang took the top prize for introducing a mobile application to address and make workers more aware of the risks associated with slips and falls. McMaster University engineering students Prasad Annalingam and Gregory DeTina took second place for their design of a guard system for wood chippers using radio frequency identification tags and readers. The award honours James Milton Ham, P.Eng., whose report on health and safety led to the creation of Ontario's *Occupational Health and Safety Act* in 1979, and challenges university engineering students to make original contributions toward integrating safety into engineering design.

The 28th Canadian Engineering Competition (CEC) brought together 150 of the most innovative and creative engineering undergraduate students from across the country to compete against each other in six categories. The University of Guelph won second place in the Junior Design event, which challenges teams of first- and second-year students with a physical engineering problem. The University of Western Ontario won first place in the Innovative Design event, in which teams present an innovative product or solution of their own design in a tradeshow-style demonstration, and second place in the Re-Engineering challenge, which requires teams to improve existing products so they can respond to new constraints. U of T won second place in the Senior Design event, which challenges teams with complex engineering design problems for which a physical solution must be constructed. Queen's University won second place in the Extemporaneous Debate challenge, in which teams compete to convince judges of their assigned stance on a subject disclosed only minutes prior to the competition. McGill University won second place and U of T won third in the Engineering Communications challenge, in which teams are asked to describe a complex technical subject in lay terms.

The Canadian Engineering Memorial Foundation has announced its 2013 scholarship recipients. Ayla Ahmad, a chemical engineering student at the University of Ottawa, has been named the 2013 Vale Master's in Engineering Scholarship winner. This \$10,000 scholarship is awarded annually to the most promising woman interested in the mining or metallurgical field, who is a full-time graduate engineering student at the master's level in Canada. Beverly Bradley, a PhD candidate at U of T in both the Centre for Global Engineering and a collaborative program in global health, is the recipient of the 2013 Claudette MacKay-Lassonde Scholarship worth \$15,000.

Nadwa Elbadri, a fourth-year civil and engineering management student at McMaster University, has won the 2013 CEMF Undergraduate Women in Engineering Scholarship for the Ontario region worth \$5,000. Elbadri was chosen as the strongest ambassador for the profession in her region based on leadership, volunteerism and community involvement. Crystal Sabel, a second-year chemical engineering student at Laurentian University, has been selected for the inaugural 2013 Dillon Consulting Limited Engineering Scholarship. The \$5,000 scholarship is presented to a woman studying engineering in an accredited program, who is a leader in her community, a dedicated volunteer and a strong ambassador for the engineering profession.

A team of environmental engineering students from the University of Waterloo took first place in Take 3 at the 22nd annual International Environmental Design Contest, hosted by the WERC Consortium and the Institute for Energy and the Environment at New Mexico State University. Students Lindsay Bowman, Victoria Chennette, Beth Hamley and Laurel Hoffarth also took second place among all tasks when judged by other contestants for their bench-scale and poster presentations. WERC's environmental design contest challenges student teams to design solutions for real-world problems while developing fully operational bench-scale solutions that are presented to panels of environmental professionals.

CALLS FOR ENTRIES

The 2013 James Dyson Awards are open for entries. James Dyson challenges engineering students, recent graduates and scientists in Canada and around the world to design something that solves a problem. This year the prize fund has doubled to \$147,000, with the prize for the international winner tripled to \$46,000 and \$15,000 for their institution. Canadian university- and college-level students and recent grads are encouraged to submit their ideas to jamesdysonawards.org before August 1, 2013. Individuals or groups up to four students can apply.

The Ontario Concrete Awards is calling for submissions to the 2013 awards. Projects from both precast and cast-in-place concrete are eligible for an Ontario Concrete Award in each category. Award recipients will be honoured at the Annual Ontario Concrete Awards banquet held during the Concrete Canada tradeshow in Toronto on December 4, 2013. Submissions are due by September 26, 2013. For more information, visit ontarioconcreteawards.ca. Σ

Clockwise from top left, Beverly Bradley, Nadwa Elbadri, Crystal Sabel and Ayla Ahmad, are recipients of the 2013 Canadian Engineering Memorial Foundation scholarships.



University of Waterloo students (left to right) Laurel Hoffarth, Victoria Chennette, Beth Hamley, and Lindsay Bowman took first place at this year's International Environmental Design Contest.