

ENGINEERS MAKING HEADLINES

By Nicole Axworthy



CLEMENT W. BOWMAN, PHD, P.ENG., FCAE, the first recipient of the Canadian Academy of Engineering Distinguished Service Award last year, has been named a laureate of the Global Energy International Prize. This award is intended to assist international co-operation in solving important problems in the field of power generation. Bowman contributed to developing highly efficient technologies and utilities for extracting oil from oil shale and oil sands.

Thirty-six new fellows were inducted into the Canadian Academy of Engineering at its annual general meeting in June. Members of the academy are nominated and elected by their peers to receive honorary fellowships, for their distinguished achievements and career-long service to the engineering profession. Ontario P.Engs to receive this honour are Levente László Diószady, P.Eng., Stephen George Dunn, P.Eng., Robert Milton Woodrow Frederking, P.Eng., Howard D. Goodfellow, P.Eng., Gordon Alexander Irons, P.Eng., John L. Mann, P.Eng., Alexander McLean, P.Eng., Nairn Melbourne McQueen, P.Eng., Daniel Allison Meneley, P.Eng., Rajnikant Patel, P.Eng., Doug Dragon Perovic, P.Eng., Abdul Ghani Razaqpur, P.Eng., Kimberly Ann Woodhouse, P.Eng., Bin Wu, P.Eng., and Jesse Zhu, P.Eng.

Monirul Mirza, PhD, P.Eng., was recently awarded a special citation by the Hon. John Baird, MP, minister of the environment, for his contribution to the United Nations' Intergovernmental Panel on Climate Change (IPCC). Mirza has been with the IPCC for the last 12 years and has contributed to its assessment reports, including its recent Fourth Assessment Report. He is currently with the adaptation and impacts research division of Environment Canada and teaches in the department of physical and environmental sciences, University of Toronto at Scarborough.

Laxman (Lucky) M. Amaratunga, PhD, P.Eng., professor of engineering, Laurentian University, received the Teck Cominco Environmental Award from the Metallurgical Society of CIM (The Canadian Institute of Mining, Metallurgy and Petroleum). Teck Cominco created the award to

promote innovation in the field of environmental control technology for the metallurgical industry in Canada. Amaratunga is recognized for his contribution to the field of mine utilization and management over the last 20 years.

The 2008 Ontario Consulting Engineering Awards were recently presented by Consulting Engineers of Ontario (CEO) to recognize the knowledge, skill and expertise of consulting engineers in Ontario. CEO's top award, the Willis Chipman Award, went to McCormick Rankin Corporation for its rapid replacement of the Highway 417/Island Park Drive overpass in Ottawa. The major freeway bridge was replaced within 17 hours during an overnight closure, using rapid-lift, mobile transporter technology (see *Engineering Dimensions*, May/June 2008, p. 23). Awards of Excellence went to Delcan for the reform and expansion of the Bridgetown Port in Barbados; Nadine International Inc. for the design of the fire detection system for Ontario Power Generation's Nanticoke generating station; and Eramosa Engineering Inc. for the Lambton Shores beach monitoring program. Awards of Merit were given to Hatch Mott MacDonald Ltd. for the airside and civil engineering for Toronto Pearson Airport Terminal 1 (transportation category); and Sandwell Consulting Engineers Ltd. for the development of Poraver's Innisfil manufacturing facility (industry, energy and resources category).

Greg A. Allen, P.Eng., sustainable design strategist, HOK Canada, is this year's recipient of the Green Toronto Award for Leadership. Allen is recognized for his involvement in advancing environmental sustainability for over 30 years as a designer, builder, community planner, researcher, manufacturer, policy advisor and environmental consultant. Now in its fourth year, the Green Toronto Awards for environmental excellence celebrate individuals, organizations and companies leading the way to a cleaner, greener Toronto.

Several University of Toronto engineering professors have recently been recognized for their achievements. Professor Doug Reeve, P.Eng., chair, chemical engineering and applied chemistry, will be inducted into the Paper Industry

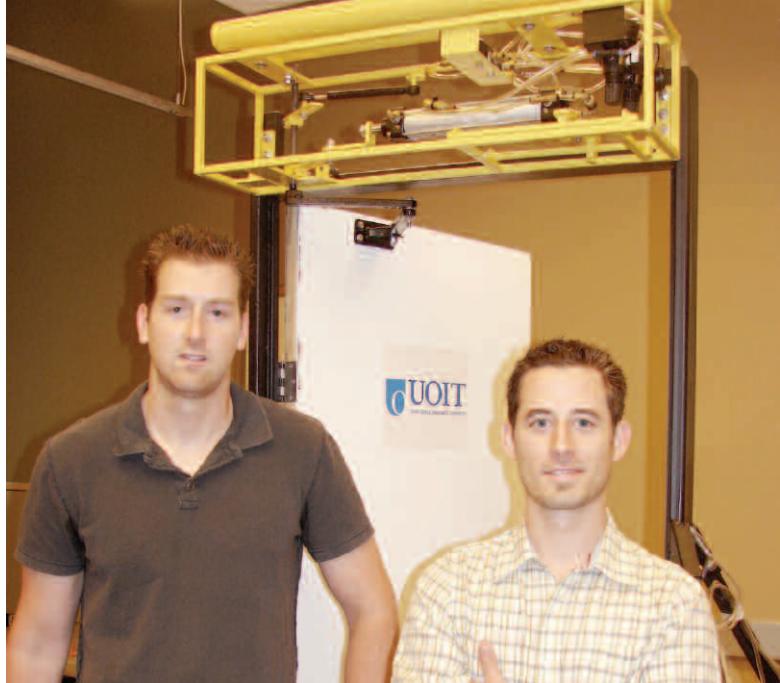
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International Hall of Fame this fall. Reeve is an internationally renowned researcher and educator in the pulp and paper field. He helped develop the Rapson-Reeve closed-cycle mill, designed to eliminate the principal cause of pulp mill water pollution. The Paper Industry International Hall of Fame, based in Appleton, WI, is a charitable organization that seeks to recognize individuals who have made pre-eminent contributions to the paper industry. Professor Tarek Abdelrahman, P.Eng., of electrical and computer engineering, has been awarded the university's 2008 Faculty Teaching Award. It is presented to individuals who demonstrate outstanding classroom instruction, using innovative teaching methods to ensure the best possible learning experience for students. Professor Hani Naguib, P.Eng., of mechanical and industrial engineering, has been awarded the 2008 Early Career Teaching Award, recognizing an instructor in the early stages of his or her career who has demonstrated exceptional classroom instruction and teaching methods. Professor Wei Yu, P.Eng., of electrical and computer engineering, received the McCharles Prize for Early Career Research, awarded to recognize exceptional performance and distinction in early career research by a pre-tenure faculty member.

Catherine Karakatsanis, P.Eng., PEO president-elect, and senior vice president, Morrison Hershfield Ltd., is the recipient of the University of Western Ontario's 2008 L.S. Lauchland Engineering Alumni Medal. This award was established in 1979 to mark the retirement of Professor Stuart Lauchland, founding member of the university's department of engineering science and former PEO president. It is awarded to a graduate of engineering for outstanding contributions to the engineering profession, business leadership and community involvement. Karakatsanis has taken on numerous community volunteer positions and has been the guest speaker at many Ontario engineering events. She



was president of the Ontario Society of Professional Engineers and is a member of the Advisory Council for Western Engineering.

A fourth-year project by four University of Ontario Institute of Technology (UOIT) students has resulted in two patent submissions and international recognition. The team, comprising recent engineering graduates Mark Bernacki, Ben Fagan, Mike MacLeod and Matt VanWieringen, designed an automatic door opening mechanism that stores energy in the form of compressed air each time the door is manually opened, and uses the stored energy for assisted automatic openings. The door remains functional during emergency situations or power loss, which helps people who rely on automatic doors as part of an accessible community, and is energy efficient, since it doesn't rely on electricity for operation. The prototype won first place at the UOIT Capstone Design competition last fall and second place in the Minerva Canada James Ham Safe Design Awards contest. Additionally, they were one of two teams to represent Canada at Talente 2008, and also displayed the prototype at the annual Industrial Accident Prevention Association conference in April, followed by the Ontario Centres of Excellence Discovery conference in May. Currently, they are seeking industry partners to support commercial development of the door design and license or purchase the patents.

CALL FOR NOMINATIONS

The Canadian Society for Civil Engineering (CSCE) is inviting nominations for its national honours and awards, which will be presented at the CSCE annual conference in St. John's, NL, in May 2009. The deadline for nominations is November 15, 2008. Details: www.csce.ca/Awards.aspx. Σ



Matt Van Wieringen (left) and Mike MacLeod, graduates of the manufacturing engineer program, University of Ontario Institute of Technology, were part of a team of students that created an award-winning automatic door opening device.

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