

## On TARIo En Gin EERS STAnD OUT FROM THE CROWD

By *Zalina Alvi*

Hanny Hassan, P.Eng., and Gilles G. Patry, P.Eng., have been inducted into the Order of Canada, the second highest national honour for merit. Hassan is a committed philanthropist, dedicating time and effort to organizations like the National Muslim Christian Liaison Committee, which works to facilitate dialogue between the two religious communities. An accomplished scientist and administrator, Patry has held senior positions at the University of Ottawa and was president and founder of Hydro-mantis Inc., a consulting firm specializing in the treatment of waste water and drinking water. The Order of Canada induction ceremony took place at Rideau Hall on September 16, 2011, where Governor General David Johnston bestowed the honour on 32 members and 13 officers.

Cristina Amon, PhD, P.Eng., dean, faculty of applied science and engineering, University of Toronto (U of T), was awarded the 2011 Society of Women Engineers (SWE) Achievement Award, the international organization's highest honour. She was recognized for outstanding work in fluid mechanics and heat transfer and for contributions to engineering education. Amon is the second woman to be appointed dean of engineering in Canada, and the first female dean of Canada's largest engineering school.

Amon was also inducted as a fellow of the Royal Society of Canada in the division of applied sciences and engineering, on September 7, 2011, along with fellow U of T professors Michael Collins, P.Eng., FEC, Chul Park, P.Eng., and Peter Strangeby, P.Eng. Collins is a structural engineer whose research into basic shear transfer mechanisms of reinforced concrete under extreme loads has improved the safety of buildings, bridges, nuclear containment structures and offshore oil platforms. Park works in the department of mechanical and industrial engineering with a focus on plastic foaming, while Strangeby is an authority on the boundary physics of magnetic fusion energy research devices at U of T's Institute for Aerospace Studies.

Cristina Amon, PhD, P.Eng., was awarded the 2011 Society of Women Engineers (SWE) Achievement Award.

The University of Toronto team that placed third overall in the World Human-Powered Speed Challenge is (left to right) Cameron Robertson, Keith Hui, Daniel Zoliniak, Amanda Chu, Alfie Tham, Aidan Muller, Todd Reichert, Victor Ragusila, Marissa Goldsmith, Rosemary Chiu and Trefor Evans.



A U of T team of engineering students placed third overall in the 2011 World Human-Powered Speed Challenge, launching racer and PhD candidate Todd Reichert into the title of ninth fastest human of all time. The competition was held September 12 to 17, 2011 on a flat stretch of highway in the Nevada desert, where a bike dubbed "Vortex" reached a top speed of 117 km/h, thanks to a team comprising undergraduate and graduate engineering students. Primary team members were racers Trefor Evans, Aidan Muller, Victor Ragusila and Reichert, as well as Rosemary Chiu, Marissa Goldsmith, Keith Hui, Vladislav Ternovsky and Alfie Tham. The team is working on next year's design, which they hope will break the current land-speed record of 133.3 km/h.

The 2011 Canadian Consulting Engineering Awards were presented November 1 at the Ottawa Convention Centre. The Tree for Life Award for outstanding environmental stewardship was given to

## [ AWARDS ]



Enermodal Engineering for the firm's new headquarters in Kitchener, which is the most energy efficient office in Canada, using 82 per cent less energy than a conventional office.

John Boyd, PhD, P.Eng., received the Beaubien Award for exceptional service to the Association of Consulting Engineering Companies (ACEC) and the consulting engineering industry. Boyd has 35 years of experience with Golder Associates in senior management positions and has spent time as chair of ACEC and president of the International Association of Consulting Engineers' Executive Committee.

Three firms also received Awards of Excellence: AGM Program Managers, a joint venture of Hatch Mott MacDonald, IBI Group and MMM Group Ltd., for the GO Transit Rail Improvement Program (GO TRIP) in the Greater Toronto and Hamilton area (project management category); Delcan Corporation for the Dufferin Street underpass in Toronto and for the Trafalgar/Hale Street & CN elevated roundabout in London, ON (two awards, transportation category); and Stantec Consulting Ltd. for the Oxford pollution control plant retrofit in London, ON (water resources category).

Enermodal Engineering's new headquarters was also recognized in the sustainable concrete construction category of the 2011 Ontario Concrete Awards. The Ontario Concrete Awards recognize the vision and creativity of owners, designers, contractors and suppliers in the

from bottom left: John Boyd, PhD, P.Eng., received the Beaubien Award during the 2011 Canadian Consulting Engineering Awards in Ottawa. Photo: Canadian Consulting Engineer/ACEC.

Delcan Corporation received a Canadian Consulting Engineering Award of Excellence for the Dufferin Street underpass in Toronto. Photo: Canadian Consulting Engineer/ACEC.

Liping Fu, PhD, P.Eng., received the Transportation Association of Canada's Award of Academic Merit from outgoing TAC President Ray Mantha, P.Eng. (left), and Associate Deputy Minister John Forster of Infrastructure Canada.

Ontario construction industry who have made concrete their construction material of choice.

Two PEO members have been awarded by the Transportation Association of Canada: Garfield Dales, P.Eng., manager, Windsor border initiatives, Ontario Ministry of Transportation, received the Award of Achievement for contributions to the transportation network serving the Windsor-Detroit border crossing; Liping Fu, PhD, P.Eng., received the Award of Academic Merit for long-term contributions to advancing academic research and developing future transportation leaders. He is a professor of civil and environmental engineering at the University of Waterloo.

PEO member Behn E. Conroy, P.Eng., has received one of three 2011 Engineers Canada TD Insurance Meloche Monnex Scholarships. The award will support his studies as he pursues a master of business administration degree at U of T's Rotman School of Management. Conroy believes his legal and business knowledge will enhance his engineering skills through project management and planning in the engineering or natural resource industry. The award recognizes excellence in the Canadian engineering profession and supports advanced studies and research.

The Society of Manufacturing Engineers has elected to the College of Fellows Jack Jeswiet, PhD,

P.Eng., FEC, professor, mechanical engineering, Queen's University, and Lihui Wang, PhD, P.Eng., professor, Virtual Systems Research Centre, University of Skövde in Sweden. Jeswiet is active on the boards of several scientific organizations, including the Canadian Society of Mechanical Engineers and the CIRP Scientific Committee on Forming. His research interests include sustainable product design and sheet metal-forming. Wang has written six books and more than 200 scientific papers, and edited many manufacturing journals. As a researcher, educator and professional engineer, he has been awarded 12 international and institutional awards.



The 2011 Wood Engineering Award was presented to David Moses, PhD, P.Eng., by the Forest Products Society for having "measurable and significant impact on the field of wood engineering," at the society's 65th International Convention. Before founding Moses Structural Engineering Inc. in 2010, Moses spent 10 years with a consulting firm in Vancouver and Toronto. He has been involved in more than 200 structural engineering products in Canada



from bottom left: Behn E. Conroy, P.Eng., won a 2011 Engineers Canada TD insurance Meloche Monnex Scholarship.

Jack Jeswiet, PhD, P.Eng., fEC, has been elected to the Society of Manufacturing Engineers' College of fellows.

Sanjeev Chandra, PhD, P.Eng., has been elected a fellow of the American Society of Mechanical Engineers.

# CAESAR II

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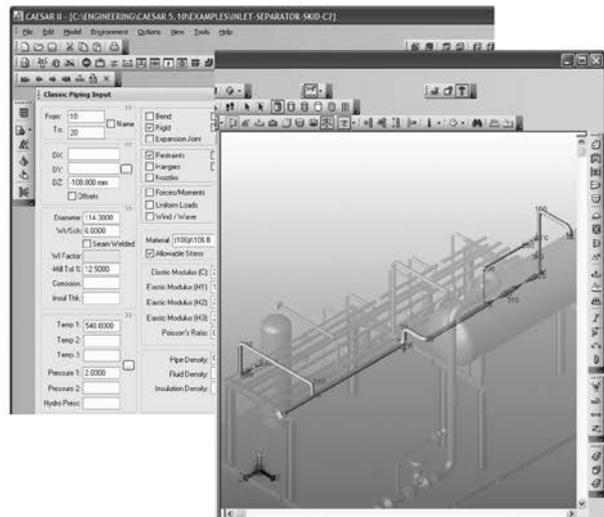
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## [ AWARDS ]



Engineering student Michael Beeler received a Fulbright Science and Technology Scholarship for doctoral studies in the US.

Jonathan Rose, PhD, P.Eng., has been elected to the US National Academy of Engineering as a foreign associate.

and the US, specializing in timber engineering and natural building materials for almost 20 years.

Sanjeev Chandra, PhD, P.Eng., has been elected a fellow of the American Society of Mechanical Engineers, an honorary distinction that rewards members for exceptional engineering achievements and contributions to the engineering profession over more than 20 years of service. Chandra is a professor in the department of mechanical and industrial engineering at U of T, and is also the undergraduate vice-dean. He is also co-founder and associate director of U of T's Centre for Coating Technologies, a worldwide leader in the research of thermal spray coatings.

Prabha Kundur, PhD, P.Eng., and Jonathan Rose, PhD, P.Eng., were elected to the US National Academy of Engineering (NAE) as foreign associates, two of only four Canadians who received the honour. The NAE provides leadership in engineering across the US and abroad. Kundur is a former adjunct professor at U of T and a fellow of the Canadian Academy of Engineering (CAE) and the Institute of Electrical and Electronics Engineers (IEEE). He is internationally recognized for his work in developing and applying technologies related to power system design and operation, sitting on several committees that create the standards and operating guidelines used by utilities around the world. Rose is also a fellow of the CAE and IEEE, as well as the Association for Computing Machinery, and is an expert in field-programmable gate array (FPGA) and the computer-aided design (CAD) tools needed to use and explore FPGAs.

Michael Beeler, a U of T MASc candidate, is one of 15 students worldwide to receive a Fulbright Science and Technology Scholarship for doctoral studies in the US. The award, worth \$30,000 a year for three years, is given by the US government to graduate students who have demonstrated exceptional academic or professional achievement and leadership potential in their fields.

Mechanical engineering students Ramtin Heidari and Andre Stenneveld from Ryerson University took home the top prize in a plant

management simulation competition hosted by Siemens Canada, Ryerson University and the Institute of Industrial Engineering (IIE) Ryerson chapter. Teams from Ryerson, U of T and the University of Waterloo competed against each other in a three-hour online simulation on September 30, 2011 to determine the best managers of industry. The focus of the competition was Plantville, an interactive online game developed by Siemens Canada. The winners were given a cash prize and the opportunity to interview for positions at Siemens.

### Calls for Entries

PEO is calling for nominations for the 2012 Ontario Professional Engineers Awards program. The awards recognize excellence across a range of engineering endeavours, including innovation, professional leadership and entrepreneurship, as well as contributions to society. The deadline for entries is 4 p.m. EST on February 24, 2012. For more information, visit [www.peo.on.ca](http://www.peo.on.ca).

Engineers Canada is accepting entries for the 2012 National Scholarship Program. Totalling \$70,000, three scholarships will be awarded to professional engineers returning to university for further study or research in various fields. The deadline for applications is March 1, 2012. For more information, visit [www.engineerscanada.ca/e/pr\\_awards\\_2.cfm](http://www.engineerscanada.ca/e/pr_awards_2.cfm).

The Canadian Society for Chemical Engineering is accepting nominations for the D.G. Fisher Award until February 28, 2012. The award is presented to a Canadian citizen who has made substantial contributions to systems and control engineering. Visit [www.cheminst.ca](http://www.cheminst.ca) for more information.

Nominations for the 2012 Canadian Society of Mechanical Engineering Awards, including fellowships and certificates of service, are due by February 15, 2012. For more information, visit [www.csme-scgm.ca/awards.asp](http://www.csme-scgm.ca/awards.asp).

Professional engineers and students are invited to enter the 2012 International Aluminum Extrusion Design Competition for cash prizes and scholarships totalling \$20,000. The deadline for entries is March 5, 2012. For more information, visit [www.etfoundation.org](http://www.etfoundation.org).

Nominations for the Society of Petroleum Engineers' International and Regional Awards are due by February 15, 2012. For more information, visit [www.spe.org/awards](http://www.spe.org/awards). 