

## P.ENGs RECOGNIZED FOR ACHIEVEMENTS

By Nicole Axworthy



Levente Diosady, PhD, P.Eng., and Xuemin Shen, PhD, P.Eng., have been named fellows of the Royal Society of Canada.

THE ROYAL SOCIETY OF CANADA, the senior national, bilingual council of distinguished Canadian scholars, humanists, scientists and artists, recently announced its Class of 2015 new fellows. Three Ontario P.Engs are included under the academy of science, applied science and engineering division. **Levente Laszlo Diosady, PhD, P.Eng.**, professor, faculty of applied science and engineering, University of Toronto (U of T), is a renowned food engineer whose research is focused on developing technologies for fortifying foods with micronutrients to prevent micronutrient deficiencies. His technology for double fortification of salt with iron and iodine, which already cured over one million children of anemia, will be phased in by several states in India shortly. **Xuemin Shen, PhD, P.Eng.**, professor, department of electrical and computer engineering, University of Waterloo, has gained a worldwide reputation as a researcher in resource management and information security for wireless communication networks. His research contributions have set the directions for others in the research community, and led to innovative networking algorithms/protocols and novel analytical techniques and models for engineering solutions. **Jesse Zhu, PhD, P.Eng.**, professor, department of chemical and biochemical engineering, Western University, is a world-renowned expert in particle technology and multiphase systems with over 300 journal publications and over 20 granted patents. Several technologies from his research have been successfully converted to commercial applications in the chemical, materials, environmental and pharmaceutical industries.

**Molly Shoichet, PhD, LEL**, university professor, U of T, and Canada research chair in tissue engineering, recently received the 2015 Fleming Medal and Citation from the Royal Canadian Institute to recognize her “contributions to the public understanding of science.” Among her many projects, Shoichet founded Research2Reality (R2R), which uses digital media and short videos to communicate cutting-edge research performed in Canada and spark nationwide awareness. The project is supported by



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six research-intensive universities, the Ontario government and Discovery Science Channel.

Recently, Engineers Canada honoured the recipients of its 2015 scholarship program. **Hélène Dutrisac, P.Eng.**, is a recipient of a 2015 Engineers Canada-Manulife Scholarship worth \$12,500. Dutrisac is pursuing a doctorate in civil engineering at McGill University. Her research focusing on how buildings resist earthquake ground motions is expected to permit more efficient and refined seismic design of earthquake-resistant structures. **Stephanie Whitney, P.Eng.**, is a recipient of an Engineers Canada-TD Meloche Monnex Scholarship worth \$7,500. Whitney is pursuing a doctorate in social and ecological sustainability at the University of Waterloo. Her research in energy conservation marketing and behaviour will help reduce home energy consumption through awareness-raising. Each year, in partnership with Manulife and TD Meloche Monnex, Engineers Canada awards six prizes totalling \$60,000 to professional engineers returning to university.

Winners of the 2015 Canadian Consulting Engineering Awards have been announced. The awards are presented jointly by the Association of Consulting Engineering Companies—Canada (ACEC) and *Canadian Consulting Engineer* magazine to recognize engineering firms and their projects that have demonstrated high quality, inno-



Hélène Dutrisac, P.Eng., and Stephanie Whitney, P.Eng., are recipients of 2015 Engineers Canada scholarships.

vation and technical excellence. The Schreyer Award, presented to a project that best demonstrates technical excellence and innovation, went to **Stephenson Engineering with Cast Connex** for the Queen Richmond Centre West in Toronto. The Tree for Life Award, presented to a project that best demonstrates outstanding environmental stewardship, went to **Hatch Ltd.** for the Forrest Kerr 195 MW Hydroelectric Power Project in northwest British Columbia. The Engineering a Better Canada Award, presented to a project that best showcases how engineering enhances the social, economic or cultural quality of life of Canadians, went to **SNC-Lavalin** for the Halifax Central Library. The Outreach Award, presented for a company's role in donating its time and/or services for the benefit of a community or group either in Canada or on the international stage, went to **Hatch Ltd. and Hatch Mott MacDonald** for the Hatch and Hatch Mott MacDonald Canadian Outreach Program. Awards of Excellence in the buildings category went to **Aercooustics Engineering** for the Thunder Bay Consolidated Courthouse and **Fast + Epp** for the Mountain Equipment Co-op head office in Vancouver, BC. In the transportation category, Awards of Excellence went to **Associated Engineering and CH2M** for the Calgary International Airport runway and City of Calgary airport trail tunnel, and **WSP and Parsons Brinckerhoff** for St. Patrick's Bridge (now George C. King Bridge) in Calgary. In the water resources category, Awards of Excellence went to **Golder Associates** for the Recovery and Resilience: Flood Mitigation Innovation project in Calgary, and for the Ruskin Dam in Mission, BC, and to **Stantec Consulting** for the Orleans watermain link horizontal directional drilling in Ottawa. In the environmental remediation category, an Award of Excellence went to **Dillon Consulting** for the Outboard Marine in situ environmental remediation in Peterborough. In the natural resources mining, industry and energy category, Awards of Excellence went to **Golder Associates** for the Giant Mine remediation project, mine support services, phase one, in Yellowknife, NT, and to **Knight Piesold** for the Kokish River hydroelectric project near Port McNeill, BC. In the international category, an Award of Excellence went to **Golder Associates** for the Caring for the Past: Blackfoot Crossing Historical Park project at the Siksika Nation site near Cluny, AB.

**Hatch Ltd.** was recognized as one of Canada's Safest Employers for 2015 at the fourth annual Canadian Occupational Safety Awards gala

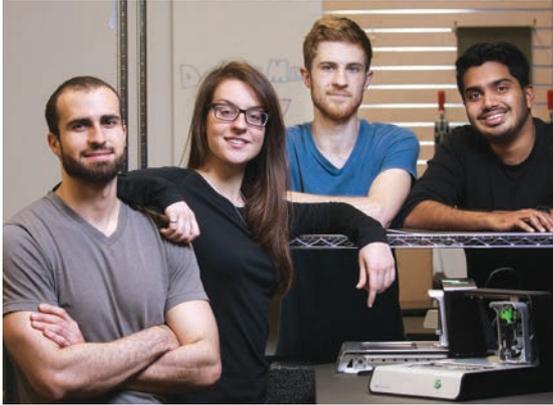
in Toronto. Presented by Thomson Reuters and *Canadian Occupational Safety* magazine, the annual award recognizes outstanding accomplishments in promoting health and safety in the workplace. Hatch was the gold recipient in the mining and natural resources category.

**Hatch Ltd.** also received the 2015 Outstanding Corporation Award for Philanthropy from the Association of Fundraising Professionals. Hatch is the first engineering, technology and project delivery firm to receive this recognition since the category's inception in 1989. The Royal Ontario Museum governors, McMaster University and The Princess Margaret Cancer Foundation nominated the company for its ongoing contributions to education, health and community initiatives to create positive change.

The 2015 Ontario Wood WORKS! Awards were recently handed out to Ontario engineering firms to recognize people and organizations that, through design excellence, advocacy and innovation, are advancing the use of wood in all types of construction. In the environment category, **Dialog** won for the Bill Fisch Forest Stewardship and Education Centre in Stouffville. In the northern Ontario excellence category, **Lavergne Draward and Associates** won for the École Ste. Marguerite Bourgeoys kindergarten addition in Kenora, ON. **Moses Structural Engineers** won the Engineer Wood Advocate Award for its leadership in timber engineering.

For the first time, a Canadian team has taken top spot as the international winner of the 2015 James Dyson Award. The team is made up of University of Waterloo graduates **Jesús Zozaya, Alroy Ameida, James Pickard and Katarina Ilic**. Their project, **Voltera V-One**, is a custom circuit board printer that allows a user to go from concept to reality in minutes. **Voltera V-One** uses the same rapid prototyping principles that underpin 3-D printing: It lays down conductive and insulating inks to create a functional, two-layer circuit board. But it's also a solder paste dispenser, allowing components to be added to the board and reflowed by a 550-watt heater. This enables users to create prototype circuit boards quickly and cheaply. The team was awarded \$54,000 and the university department received \$9,000 from the James Dyson Foundation. The James Dyson Award is an annual contest open to

## [ AWARDS ]



University of Waterloo graduates, from left, Jesús Zozaya, Katarina Ilic, James Pickard and Alroy Almeida are international winners of the 2015 James Dyson Award.

university students or recent graduates studying product design, industrial design and engineering. The contest challenge is to design something that solves a problem.

The 2015 recipients of the Schulich Leadership Scholarships have headed off to university across Canada to pursue studies in science, technology,

U of T student Daniel McInnis has received an \$80,000 Schulich Leadership Scholarship to pursue STEM studies.



engineering or mathematics (STEM). Daniel McInnis of Ottawa, who is attending U of T, received an \$80,000 undergraduate scholarship, given to students pursuing engineering degrees. Created by Canadian business leader Seymour Schulich, the scholarship program encourages high school graduates to embrace STEM disciplines in their future careers.

### CALL FOR ENTRIES

Engineers Canada is accepting entries for the 2016 scholarships program. Six scholarships totalling \$60,000 will be awarded to professional engineers returning to university. The deadline for applications is March 1, 2016. Additional information is available at [www.engineerscanada.ca/scholarship-program](http://www.engineerscanada.ca/scholarship-program). Σ



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