

ENGINEERING PROJECTS, PROFESSORS AND STUDENTS HONOURED

By Nicole Axworthy

Sanjeev Chandra, PhD, P.Eng., Thomas Coyle, LEL, Javad Mostaghimi, PhD, P.Eng., and Valerian Pershin, PhD, all from the University of Toronto, were presented the Brockhouse Canada Prize for Interdisciplinary Research in Science and Engineering from the Natural Sciences and Engineering Research Council of Canada (NSERC). They were recognized for their work developing innovative thermal coating technologies with applications ranging from engines to thermal reactors. They have also begun work on coatings with applications in medicine for joint and dental implants, and as a low-cost process for manufacturing fuel cells and solar panels. The Brockhouse Canada Prize recognizes Canadian teams of researchers from different disciplines who have drawn on their combined knowledge and skills to produce a record of excellent achievements in the natural sciences and engineering in the last six years.

Douglas Reeve, PhD, P.Eng., professor and chair, department of chemical engineering and applied chemistry, University of Toronto, has received the R.S. Jane Memorial Award from the Canadian Society for Chemical Engineering. Reeve is an internationally recognized leader in the field of pulp and paper research. The award was established in 1960 to commemorate the memory of the late Robert Stephen Jane, PhD, and is presented to an individual who has made exceptional contributions to the field of chemical engineering or industrial chemistry in Canada.

The Canadian Institute of Steel Construction (CISC) recently announced the winners of the CISC-ICCA National Steel Design Awards. The goals of the awards are to recognize steel design and innovation excellence, promote awareness of the advantages of steel in construction and create networking opportunities for CISC members, partners and clients.

The Award of Excellence in the architecture category went to the Camilla and Peter Dalglish Atrium, Royal Botanical Gardens, in Burlington, ON. The general contractor for the project was Ira McDonald Construction. The Award of Excellence in the engineering category went to the Richmond Speed Skating Oval in Richmond, BC. The structural engineer (base structure) for the project was Glotman Simpson Consulting Engineers. The Award of Merit in the same category went to the Art Gallery of Ontario transformation in Toronto, ON. The CISC detailer, erector and fabricator of the main structure was Benson Steel Ltd.. The Award of Merit in the sustainability category went to the Legendre Garage and Body Shop in Montreal, QC. The structural engineer for the project was Pasquin St-Jean & Associés Inc.

Professor Jan Spelt, PhD, P.Eng., of the University of Toronto's mechanical and industrial engineering department, was elected a fellow of the Canadian Society for Mechanical Engineering (CSME) for his excellence in mechanical engineering and contributions to the progress of the profession and of society. The mission of the CSME is to foster excellence in the practice of mechanical engineering for the benefit of Canada and the world, and to bring together all mechanical engineering personnel and engineers in other disciplines with interest in mechanical engineering.

Raymond Findlay, PhD, P.Eng., professor emeritus, department of electrical and computer engineering, McMaster University, is the recipient of the IEEE Haraden Pratt Award for 2010. The award is presented to an IEEE senior member or fellow who has provided outstanding service to the organization. Findlay was honoured for his "knowledge of the history of electrical engineering and IEEE, his dedication to member services and student activities and

[AWARDS]



Winning projects of the CISC-ICCA National Steel Design Awards included, clockwise from top, the Camilla and Peter Dalglish Atrium at the Royal Botanical Gardens, the Art Gallery of Ontario in Toronto, the Legendre Garage in Montreal, the University of Alberta's Triffo Hall and the Richmond Speed Skating Oval in Richmond, BC.





IEEE President-elect Moshe Kam, PhD, PE (left), and IEEE President and CEO Pedro Ray, PE (right), present the IEEE Haraden Pratt Award to Raymond Findlay, PhD, P.Eng., professor emeritus, McMaster University.

A team from Queen's University took second prize in this year's James Ham Safe Design Awards competition. Left to right: Anthony Pasteris, P.Eng., president and CEO, Minerva Canada; Jeremy Langburt, student; James McLellan, P.Eng., professor; Jesse Williams-Kovacs, student; David Mody, P.Eng., adjunct lecturer; Wilson McKinnon, student; Kevin Smiley, student; Nina Mankovitz, P.Eng., corporate manager, security, health and environment, DuPont Canada; and Vic Pakalnis, P.Eng., professor.

his belief in IEEE as a transnational technical society" demonstrated "in his over 40 years of dedicated volunteer service."

Minerva Canada has announced the winners of its 2010 James Ham Safe Design Awards competition, which challenges Canadian university engineering students to make an original contribution to the safety aspect of engineering design. Queen's University students Jeremy Langburt, Wilson McKinnon, Kevin Smiley and Jesse Williams-Kovacs took second prize for their detailed analysis of process hazards and risk mitigation measures associated with the design of a biodiesel production facility. The awards honour 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 and to the adoption of the Internal Responsibility System in Ontario workplaces.

The University of Ontario Institute of Technology's Formula Society of Automotive Engineers (SAE) recently won top prize at the 2010 Ontario Centres of Excellence (OCE) Discovery Showcase. The SAE team designed and built a scaled-down Formula-style car deemed the Best Connections Project (university level) by OCE, a research-to-commercialization agency in Ontario. In addition to receiving accolades from John Milloy, then Ontario minister of research and innovation, UOIT's winning entry received a \$2,000 cash prize.

CALL FOR ENTRIES

Minerva Canada is calling for entries to the 2011 James Ham Safe Design contest. The contest is open to undergraduate engineering students enrolled at a Canadian university. The contest challenges students to come up with original contributions to integrating safety into engineering design. The final submission date is February 25, 2011. For more information, go to www.safetymanagementeducation.com. Σ