

COUNCIL ELECTION results ARE IN

By Jennifer Coombes

THE 2010 ELECTION closed March 5 and PEO's new council took office at the annual general meeting on May 8. Diane Freeman, P.Eng., president-elect 2009-2010, was officially sworn in as president, while the following newly elected council members also took office:

- President-elect David Adams, P.Eng.
- Vice President Corneliu Chisu, P.Eng.
- Councillor-at-large Roger Jones, P.Eng.
- Eastern Region Councillor Chris Taylor, P.Eng. (acclaimed)
- East Central Region Councillor Denis Carlos, P.Eng.
- Northern Region Councillor David Euler, P.Eng. (acclaimed)
- West Central Region Councillor Colin Moore, P.Eng.
- Western Region Councillor Len King, P.Eng.

At the first meeting of council immediately following the AGM on May 8, David Euler, P.Eng., was elected by and from the members of council as a vice president, and Bruce Clarida, P.Eng., Rebecca Huang, LLB, and Phil Maka, P.Eng., were elected by and from the members of council as additional members of the Executive Committee.

All members are eligible to vote for the position of president-elect. This year, 15 per cent of the membership voted, which is consistent with voter turnout over the past three years.

The election mailing also included a ballot for confirmation by members of council-approved amendments to sections 12 and 13 of By-law No. 1, concerning how a council meeting may be called and who has the authority to do so. PEO bylaws are not effective

until confirmed by members (section 8 of the *Professional Engineers Act*).

Prior to this ballot, council meetings could be called only on the direction of the president or the Executive Committee. By confirming this ballot, members approved allowing council meetings to be called when requested by two-thirds of the members of council.

Section 12 of By-law No. 1 now reads: "Meetings of the council may be called by the president, the Executive Committee or, subject to section 13.1, by members of council."

Section 13 now reads: "Notice of the meetings of the council shall be given by the registrar on the direction of the president, the Executive Committee or, subject to section 13.1, by members of council, and shall be delivered, mailed, emailed or sent by other form of telecommunication to each member of the council not less than seven days before the meeting is to take place. No formal notice of any such meeting shall be necessary if all members of the council are present or if those absent have consented in writing to the meeting."

A new section, 13.1, was added to the bylaw, which states: "Upon the written request to the registrar by no fewer than two-thirds of the members of council, the registrar shall call a meeting of council by giving notice to all members of council no less than 28 days before the meeting is to take place. Such notice shall be delivered, mailed, emailed or sent by other form of telecommunication to each member of the council. No formal notice of any such meeting shall be necessary if all members of the council are present or if those absent have consented in writing to the meeting."

HOW YOU VOTED

President-elect

David Adams	3490
John Vieth	3357
Peter DeVita	2108
Danny Young	1432

Vice president

Corneliu Chisu	3627
Shokoh Fatahi	3535
Cliff Knox	3192

Councillor-at-large

Roger Jones	5387
Allen Lucas	4864

Eastern Region councillor

Chris Taylor	acclaimed
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East Central Region councillor

Denis Carlos	1203
Jane Huang	1109
Michael Chan	443

Northern Region councillor

David Euler	acclaimed
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Western Region councillor

Len King	1068
Wayne Kershaw	1013

West Central Region councillor

Colin Moore	1089
George Senkiw	624
Pappur Shankar	376
Galal Abdelmessih	291



WOMEN MAKE PEO HISTORY

Outgoing President Catherine Karakatsanis, P.Eng. (left), passes the gavel to incoming President Diane Freeman, P.Eng., at the annual general meeting May 8 in Toronto. This is the first time in PEO history that women have held the presidential post two terms in a row. Check news in the July/August issue of *Engineering Dimensions* for full coverage of the meeting.



Volunteers HONOURED

Thirteen were inducted at one of three levels into the PEO Order of Honour May 7 in Toronto for commitment and service to the profession. They were (clockwise from top left) William David Wilder, P.Eng. (Member); Jüri Silmberg, P.Eng. (Member); Seimer Tsang, P.Eng. (Officer); Robert Dunn, P.Eng. (Companion); Gina P. Cody, P.Eng. (Officer); Catherine Redden (Honorary Member); Derek L. Wilson, P.Eng. (Officer); Richard G. Zytner, P.Eng. (Member); Nicholas Colucci, P.Eng. (Member); Nick D. Markettos, P.Eng. (Member); Kevin Blades, P.Eng. (Member); Michael Pearsall, P.Eng. (Member); Steven Rose, P.Eng. (Member).

PEO, OCEPP WELCOME NEW EDUCATIONAL PARTNER

By Michael Mastromatteo



David Heaslip, executive director, ADMI, took up residence at PEO headquarters April 1.

PEO and the Ontario Centre for Engineering and Public Policy (OCEPP) recently welcomed the first tenant to their new offices at 40 Sheppard Avenue West in Toronto.

On April 1, PEO and OCEPP entered into a formal affiliation with the Advanced Design and Manufacturing Institute (ADMI), which has seen the organization take up administrative residence at PEO's new building.

ADMI is a master's-level engineering program offered jointly by five Ontario universities: Toronto, McMaster, Western, Waterloo and Queen's. It was founded in fall 2000 and first offered in spring 2001.

Approximately 200 engineers have graduated from the program so far. There are now about 120 enrolled. ADMI was previously headquartered with the Ontario Centres of Excellence in Mississauga.

"PEO is proud to welcome ADMI to our recently purchased head office building," says PEO CEO/Registrar Kim Allen, P.Eng. "We see ADMI as a friend of the family, and its presence will greatly enhance synergies between engineering organizations."

OCEPP's acting executive director, Jana Levison, PhD, engineering intern, says the affiliation should be mutually beneficial to all parties. "The affiliation with ADMI will definitely raise the centre's profile and strengthen connections," Levison says. "The institute is a wonderful industrial and academic collaboration."

David Heaslip, executive director of ADMI, says the move brings new visibility to the institute while allowing it to participate in future activities of PEO and OCEPP.

"We're hoping that the affiliation will also make ADMI better known to a large number of professional engineers in Ontario who aren't aware of the institute and who may be interested in taking advantage of our unique master's degree program," Heaslip told *Engineering Dimensions* March 11.

The program allows participants to choose courses offered by all five partnering universities. Each course is presented as a set of two, four-day-weekend modules; each module involves approximately 30 hours of lectures, discussion and application work. The schedule is designed so that each course module is separated by approximately six weeks to facilitate the learning process and to allow for selected projects and assignments to be undertaken. Generally, working engineers spend only four days a month in class and continue to work at their current jobs.

Heaslip says ADMI is "real-world oriented," with case studies and other course work built around practical engineering examples. "Courses on finance, marketing and international relations, for example, all use engineering examples, allowing engineers to relate much more readily to them."

For information about ADMI visit www.admicanada.com.

Encouraging engineers of the future

By Sonya Agnew

SINCE 1992, National Engineering Week—now National Engineering Month (NEM)—has been celebrating engineering excellence across Canada and encouraging young people to consider engineering as a career choice. Each year during March, provinces and territories choose one week in the month for their particular celebrations. In Ontario, the National Engineering Week Steering Committee (NEWOSC) chose February 27 to March 7, 2010.

Building upon the success of last year's program with the Toronto Public Library system, presentations by Engineers Without Borders (EWB) were made at 30 branches across the GTA. Over 1000 students in grades 5 to 9 participated in an interactive workshop to raise awareness about our water supply. "Water for the World" was designed to show Canadians how they can do their part in protecting and managing our most valuable resource.

K'NEX bridge-building workshops were held at four science centres and museums in Kitchener, London, Sudbury and Toronto, with volunteers helping thousands of students and parents build bridges.

New this year was the Engineering Student Societies Council of Ontario Rube Goldberg machine, built by seven Ontario engineering societies connected in real time over the Internet and culminating at the Ontario Science Centre in Toronto (view it here: bit.ly/d59c4p).

Also, PEO chapters held activities and events for NEM, organized and run by dedicated engineer volunteers. Examples include:

- Etobicoke Chapter's 3rd annual Engineering Idol competition, held at the



PEO volunteer Loui Pappas, P.Eng., helps a future engineer with his K'NEX bridge.

Ontario Science Centre, had secondary school students work together to demonstrate teamwork and problem solving;

- Algoma Chapter hosted its 7th annual Mathematics contest, which included an egg drop competition, engineering displays and robotics demonstrations;
- Hamilton Chapter invited local grades 7 and 8 students to design and build a robotic arm that transported springs of different sizes and shapes from one point to another; and
- Oakville Chapter hosted a full day of events for students in grades 9 to 12, which included a solar car demonstration by McMaster University students, a presentation by EWB on energy conservation, followed by the main competition—building a wind turbine using limited resources.

"We want to thank our volunteers for the dedication and enthusiasm they bring to NEM. It makes our week of celebrating engineering so successful," says Holly Anderson, P.Eng., NEWOSC chair.

The five members of NEWOSC are PEO, the Ontario Society of Professional Engineers, Consulting Engineers of Ontario, the Ontario Association of Certified Engineering Technicians and Technologists, and the Ontario Science Centre.

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PROVINCE-WIDE MENTORING PROGRAM *RAMPS UP*

By Jennifer Coombes



The task force met with PEO staff May 4 to hammer out last-minute details before the mentorship program pilot launches in June. Left to right are Tapan Das, P.Eng. (Mississauga Chapter); Art Jain, P.Eng. (Oakville Chapter); Gerry Meade, P.Eng. (York Chapter); Jeannette Chau, P.Eng., EIT officer; Margaret Walcott, administrative assistant, prelicensing programs; Raju Chander, P.Eng. (Scarborough Chapter); Manoj Choudhary, manager, prelicensing programs; Ed Poon, P.Eng. (York Chapter); and Desmond Gomes, P.Eng. (Brampton Chapter).

PEO's chapter-based, province-wide mentoring program has come a long way from the seed of an idea it was in November 2008—to help graduate engineers on the path to licensure connect with more experienced engineers.

Council gave the go-ahead in September 2009 to launch the program as a pilot, limiting it initially to five Toronto-area chapters, including Scarborough, York, Brampton, Mississauga and Oakville, all of whom were involved in the initial mentorship task force and provided invaluable support and input.

The project has now switched into high gear. A consulting firm that specializes in developing mentoring

programs has been hired to help develop training materials, and conduct training and orientation workshops for mentors and mentees. As well, a website, online form and a database for matching applicants is being developed. Chapters taking part in the pilot have been providing input and helping to prepare for the launch.

Jeannette Chau, P.Eng., PEO's new engineering intern programs officer, was hired in early March to head up the program, among other duties.

Says Chau: "We're excited to test the waters. The chapters will help recruit mentors and mentees starting in early June and we'll be providing evening and half-day weekend training sessions for both mentors and mentees starting later in the month."

Manoj Choudhary, P.Eng., manager, prelicensing programs, believes this is a great opportunity for mentees to get guidance from seasoned professionals. "Taking advantage of a mentorship program like this is invaluable to those entering the profession and will hopefully increase the likelihood of mentees successfully becoming professional engineers. And, taking part can only strengthen their ties with PEO and their profession."

Adds Chau: "What's unique about this program, too, is that going forward, we plan to have the opportunity for mentees to continue participating the following year with a different mentor. This will certainly offer mentees different perspectives on the engineering profession."

Anyone registered with PEO in the Engineering Intern Training (EIT) program is eligible to be a mentee. Engineering interns and professional engineers interested in becoming mentors and participating in the mentorship program are invited to contact one of the participating PEO chapters.



Licence renewal fees can't escape HST

By Michael Mastromatteo

THE ONTARIO GOVERNMENT'S harmonized sales tax (HST), coming into effect July 1, 2010, will have an impact on annual licence renewals and other fees charged by PEO.

The HST combines the 5 per cent federal government goods and services tax (GST) with the 8 per cent provincial sales tax (PST). As a result, most goods and services throughout the province will be subject to the combined 13 per cent tax.

For PEO members, the HST means annual membership fees increase from the current \$231 (\$220 fee plus \$11 PST) to \$246.80 (\$220 fee plus \$26.80 HST).

HST-impacted annual fees will be phased in for some members. For example, annual fees due May 1, 2010, will include two months of GST (May and June) and 10 months (for the period after July 1, 2010) of HST. Annual fees due June 1, 2010 will include one month of GST (June) and 11 months of HST.

PEO's finance department reports that, in general terms, the 13 per cent HST will apply to the same services that were previously subject only to the 5 per cent PST.

PEO will soon be updating its website (www.peo.on.ca) with information on the new HST-included fees.



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Electronics innovation INVOLVES MORE THAN HI-TECH GADGETRY

By Michael Mastromatteo

Consumer electronics, aided by advanced applications for GPS-based telematics, continue to set the pace for change and innovation, according to speakers at this year's Engineering Innovations Forum (EIF) in Toronto.

Held March 4 at the Ontario Science Centre, the forum was dedicated to an examination of innovation in consumer electronics, and guest speakers did not fail to live up to advance billing.

This year's presenters included Bruce Rodin, P.Eng., vice president of wireless technology, Bell Canada, who discussed innovations in wireless networks, devices and services.

Bern Grush, chief scientist, Skymeter Corporation, held forth on innovations in global positioning systems (GPS) and telematics and, in keeping with "green" considerations, Gordon Day, program director, Ontario Electronic Stewardship, outlined programs for the collection and recycling of outmoded electronic hardware.

The moderator for the 2010 EIF was CBC print and broadcast journalist Steven D'Souza.

Opening speaker Grush outlined the problem faced by engineers and policy-makers in overcoming traffic congestion as more and more vehicles are expected to clog up existing roadways. He said the transportation sector is facing a crisis as more and more vehicles are adding to already overcrowded streets and highways.

Paradoxically, as new vehicles become more efficient or come to operate on non-fossil fuels, revenues raised via traditional fuel taxes will continue to decline. This presents problems for governments, which traditionally use fuel taxes to pay for and maintain transportation infrastructure.

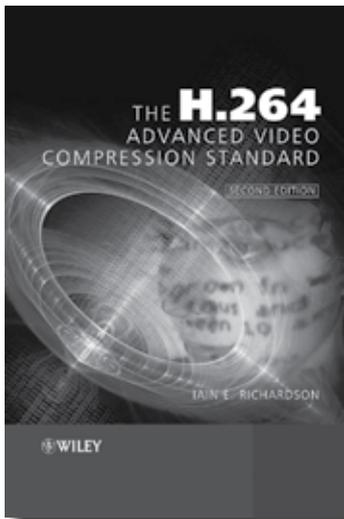
Grush defined traffic congestion as a "wicked" social problem that often defies purely technical solutions. But by seizing on opportunities presented by GPS, telematics, satellite-based road tolling and instantaneous monitoring of private vehicle and roadway volume, engineers can lend their voices to finding a remedy for a taxing societal concern.

Grush's argument for "road user charging" to replace gas taxes in funding transportation infrastructure was featured in the July/August 2008 issue of *Engineering Dimensions*, p. 56.

Engineer Rodin of Bell Canada later outlined the corporation's challenge in continuing to stay ahead of consumer demand for innovation, compactness and increased data flow in the telecommunications sector.

At Bell Canada, Rodin is responsible for planning and developing new wireless technologies, including spectrum acquisition, user terminals and network service enhancement.

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Rodin's main point was that the public demand for wireless mobile devices continues to grow by leaps and bounds. The number of mobile devices in use is expected to grow from 10 billion in 2010 to between 100 and 200 billion by 2030, Rodin said.

"We're anticipating some two exabytes, or two billion gigabytes of mobile traffic data per month by 2013," Rodin said, "representing a 130 per cent increase since 2008."

Obviously, this puts tremendous pressure on companies like Bell to enhance mobile access technology to sustain unprecedented demands.

The final speaker, Gordon Day, outlined the growing reach of Ontario Electronic Stewardship (www.ontario.electronicstewardship.ca), which is making inroads in recycling and disposing of outmoded electronic and computer components.

The stewardship effort, which focuses on municipal recycling and waste management programs, has collected more than 13 million kilograms of material since its inception in 2007.

In addition to helping divert sometimes hazardous material from landfill sites, the stewardship program also recovers viable material for recycling and reuse. It also acts as a check against the illegal transport of potentially harmful materials to countries in the developing world.

Day encouraged engineers to lend their voices to environmental stewardship efforts and to help create new awareness of the need for more active recycling and recovery initiatives.

As is customary with the annual EIF, presentations are accompanied by a mini trade show made up of sponsor groups. Among the organizations with displays this year were Women In Nuclear, the Ontario Association of Certified Engineering Technicians and Technologists (OACETT), and Innovation Initiative Co-operative, an Ontario-based not-for-profit organization promoting innovation concepts.

A feature of National Engineering Week in Ontario since 1990, the EIF seeks to raise public awareness of engi-



Presenters at the 2010 Engineering Innovations Forum included (left to right) Gordon Day, Bern Grush, Bruce Rodin, P.Eng., and Steven D'Souza (moderator). The theme for this year's forum was engineering innovations in consumer electronics.

neering's role in combining science and technology for creative social and public benefit. It is organized by PEO's Toronto chapters, the Ontario Society of Professional Engineers (OSPE), and OACETT. The chair of this year's EIF was Paul Annis, C.E.T.

The 2010 event included a welcome address by OSPE President Annette Bergeron, P.Eng., who reminded engineers of the importance of innovation to Canada's economic competitiveness and prosperity.

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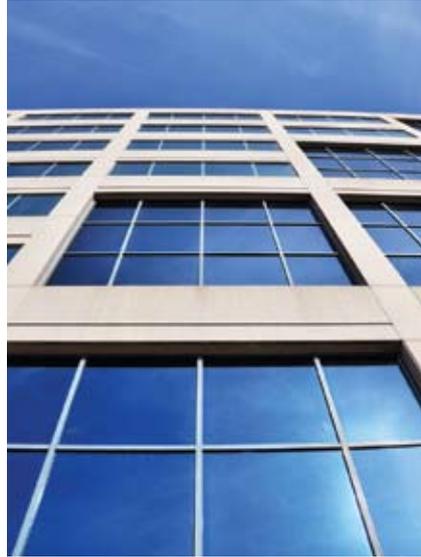
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PEO HONOURED FOR BUILDING PURCHASE

By Michael Mastromatteo



PEO's purchase of 40 Sheppard Avenue West was honoured by the greater Toronto real estate community with a nomination as a finalist for one of the annual Real Estate Excellence (REX) awards.

The REX awards are presented annually by the Commercial Real Estate Development Association to organizations whose commercial acquisitions demonstrate innovation, creativity, sustainability and other factors esteemed by the commercial real estate industry.

While PEO lost out to Whiterock REIT & ROI Capital in the Investment Deal of the Year category, its being considered for a REX award underscores the thoroughness with which the regulator undertook its relocation effort.

Nominations for REX awards are based on the overall complexity of the deal, the use of innovative and creative solutions to achieve objectives, the significance of the acquisition to the purchaser, and its impact on the market.

Then PEO President Catherine Karakatsanis, P.Eng., and CEO/Registrar Kim Allen, P.Eng., represented PEO at the March 4 REX awards ceremony in Toronto.

In an announcement to staff, Allen saluted PEO council and the entire PEO relocation team for their efforts in the purchase and occupation of the new headquarters.

He also paid tribute to Colliers International and Northglen Investments, which worked with PEO in securing and redeveloping the 40 Sheppard Avenue West property.

PEO will work with Intercede Facility Management Ltd. in the continuing transformation of its new building into a multi-faceted facility to serve the engineers of Ontario.

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