T he new Ontario Centre for Engineering and Public Policy was launched in 2007 and will provide decision-makers in the Ontario government, as well as the Professional Engineers of Ontario, with better local, global communities.

New centre to engage engineers for public good

The new Ontario Centre for Engineering and Public Policy will provide decision-makers in the Ontario government, as well as the Professional Engineers of Ontario (PEO), with better local, global communities.

In keeping with its annual tradition, the Ontario Society of Professional Engineers (OSPE), in partnership with Professional Engineers Ontario (PEO), hosted the Professional Engineers Ontario Awards – celebrating engineering achievement in research and development, community service, education and engineering excellence.

"The noble profession of engineers is inextricably tied with the society in which we are engaged in demonstrating professional values and character in the service to the society," says Michael Monette, president and chair of OSPE. "These characteristics are quite broad and remarkable as engineers practice their art, and science to the betterment of our communities throughout Ontario's educational, community, and governmental components," he says. For example, OSPE-Policy Action Network, made over 200 presentations to the Ontario government, the national government, and employers through formal and informal engagements with Members of Parliament," he says. For example, OSPE-Policy Action Network, made over 200 presentations to the Ontario government, the national government, and employers through formal and informal engagements with Members of Parliament, "We believe at PEO that we should be a source of sound technical advice to government policy-makers. We believe in PEO that we should be a source of sound technical advice to government policy-makers. We believe at PEO that we should be a source of sound technical advice to government policy-makers. We believe at PEO that we should be a source of sound technical advice to government policy-makers.

As an engineer, your contribution is too often seen but not heard

As an engineer, your contribution is too often seen but not heard

In his opening address, Mr. Adams highlighted the centrality of engineers and their work to communities. He noted that engineers are key players in the economic prosperity of communities and that their work is essential to the public interest. He emphasized the importance of engineers in solving complex societal issues, such as climate change, infrastructure, and public health.

The centre will also further the mission of OSPE's Engineering and Public Policy team, which was established in 2007 to provide engineers with a platform to engage in public policy discussions. The team has been successful in raising awareness of the importance of engineers in public policy decisions and in advocating for policies that support the engineering profession.

In conclusion, the new Centre for Engineering and Public Policy marks a significant step forward in the development of a new professional identity for engineers in Ontario. It provides a platform for engineers to engage in public policy discussions and to advocate for policies that support the engineering profession. It also serves as a reminder of the important role that engineers play in solving complex societal issues and in promoting the public interest.
RESEARCH & DEVELOPMENT AWARD

Robert Rehder spent 47 years in employment for General Electric, earning the respect of his peers and the industry.

As a winner of a Citizenship Award, he has received several other awards for his work and community contributions,

The most significant achievement of his career was to show that people who had a stroke or spinal cord injury could still make contributions to society.

He has written 89 papers for international conferences and 160 refereed articles for various scientific journals, as well as doing considerable research in technology transfer.

In the past 30 years, he has worked on helping design products for the elderly, people with disabilities.

Under his presidency, Cementation has seen significant growth in its client base, expanding its scope of work.

As an entrepreneur, he is confident in his company’s ability to continue growing and will continue to play an important role in shaping the future of the industry.
CITIZENSHIP AWARD

Harold Usher, recipient of a Citizenship Award, arrived in Canada from Jamaica in 1970 (originally from Belize) with $500 in his pocket and big dreams. He worked hard, and soon, through organizations such as the Jaycees and Toastmasters, and on his own, he reached out to help others. He has received numerous awards for his service to the community, and in 1992, received the Canada 125th Commemorative Medal from the Governor General for service to his community, his country and Canada. “I have never achieved anything all by myself,” Mr. Usher says. “There was always someone helping me, like an angel, to the next step, to move me from one level to the next. I was brought up in Belize where, as a child, I didn’t even have shoes to wear... and today I watch with empathy how today’s newcomers to Canada struggle.”

As a result, I make it my mission to help others and to welcome newcomers to Canada. Mr. Usher says. “I wanted our company to be the most competitive in the world and knew that to do that we had to have good productivity on an ongoing basis,” says Dr. Curlook. “I had a philosophy and was able to prove that improved safety goes hand-in-hand with improved productivity.”

PROFESSIONAL ENGINEERS GOLD MEDAL

Walter Curlook, CM, PhD, DSc, D.Eng., FCAE, FEng, Management Consultant, Distilled Adjunct Professor, University of Toronto

Award recipients

We're your voice.

OSPE speaks for our profession and acts on behalf of over 70,000 professional engineers and all graduate engineers in the province of Ontario. As an engineering graduate from an accredited/recognized professional engineering program you are eligible to join OSPE, and enjoy the benefits membership confers – ready access to continuing education, links to career advancement, advocacy before government, and on a very practical level, substantial savings on car and home insurance.

We’re working for you – the people who make so much possible, and enhance the daily lives of every Canadian. If you’re not already a member, visit our website to see what OSPE can do for you. We think you’ll like the sound of it. www.ospe.on.ca
The Ontario Society of Professional Engineers (OSPE) recently sweetened its member benefits by partnering with McMaster University’s丁come Centre for Engineering and Public Policy.

“We’re really excited about it, as it allows us to clearly raise the profile of the engineering profession and advocate for change at all levels of government,” says Angela Sharma, CEO of OSPE. The partnership will include a focus on sustainable energy, particularly in the Great Lakes region, through a series of joint conferences and seminars. Additional seminars already given by OSPE include project management for engineers and seminars designed specifically for internationally trained engineers.

Andy Hrymak, Director of the Walter G. Booth School of Engineering at McMaster University, adds, “The partnership is very much in keeping with the mission of the school, which is to foster and deliver interdisciplinary mater-

ạos in political science and other social sciences and gain an understanding of the human element in their chosen field of study. They can then be more responsive to the public and societal issues.”

The conferences and seminars that arise from the partnership will complement the university’s mission, and allow both students and engineering graduates to continue their education and stay current on public policy and issues that affect their profession.

Currently, OSPE serves as the voice of some 70,000 professional engineers in Ontario, advocating with governments and providing opportunities for ongoing professional development and career advancement.

MICHAEL LEE-CHIN

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MICHAEL LEE-CHIN

The man for whom the Crystal addition of the Royal Ontario Museum in Toronto has been named is Mr. Lee-Chin – civil engineering graduate of McMaster University in 1970. After graduation, he took his first job at the newly formed AIC (Andrew Hrymak International Company, Ltd.), working there for 10 years. Mr. Lee-Chin is currently CEO of Portland Holdings, Inc., a conglomerate of diversified businesses involved in retail, media, communications, food, and financial services. He also serves as President of the Renaissance Campaign, the museum named in recognition of his $30-million donation to the museum.

Some 20 years later, AIC’s assets surpass $7 billion, and it is stated to be the third-largest company in Canada. Mr. Lee-Chin has become one of the few world leaders to make significant financial contributions to his home country. His legacy in Toronto includes the Crystal Mall, Crystal City, and the Crystal Gardens. His significant donations to the arts and the public good have been recognized over the years with a number of civic, educational, and philanthropic awards.

Mr. Lee-Chin came to Canada from Port Antonio, Jamaica, and enrolled in civil engineering at McMaster University in 1967. After graduation, he became an associate with Messers. Marnie and Co., where he worked from 1970 to 1975. In 1975, he moved to Harlem as a member of the board of directors of Portland Holdings. In 1983, he borrowed money to purchase a small Ontario-based company called AIC, which he then renamed Portland Holdings. By 1995, he had transformed the company from a small Ontario-based company to a multinational corporation with operations in Canada, the U.S., and the U.K.

Currently, Mr. Lee-Chin serves on the boards of directors of a number of leading organizations, including the Toronto Stock Exchange, the World Economic Forum, and the Centre for the Next Generation. He is also a member of the board of directors of the University of Toronto, the University of Edinburgh, and the University of Oxford. He is a member of the Royal Bank of Canada, the Royal Bank of Canada Foundation, and the Canadian Business Hall of Fame.

The conference will feature a keynote address by Michael Monette, MBA, EDP, P.Eng., President of OSPE and Chair of the Ontario Engineering Foundation. The conference will also include presentations by a number of professionals in the field of engineering and public policy.

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Engineers have always known that their careers are exciting and creative. But it's only recently that the scope of the world is catching on to the impact that engineers have in every aspect of our lives and in seeing engineers in a whole new light.

The recognition has come from the top. “We are drawing a new breed of engineers,” says Dr. Mike Szaroka (right), manager of UOIT’s Office of Technology Transfer and Commercialization. PHOTO: SUPPLIED

Across the universe – Engineers Without Borders

Without Borders, he jumped at the opportunity to join the people who are using technologies that will improve communities gain instant recognition of engineering profession-als, who are bringing their ideas and visions into the world in exciting new ways. From projects that make our world safer, ideas that make our environment greener, and sexy new products that lay on the cool hater, today’s engineers are creating great acts – and taking to all along for the ride.

From left, Mike MacLeod and Matt Van Wingerden, graduates of the Manufacturing Engineer program at the University of Ontario Institute of Technology (UOIT), and inventors of the automatic keypad entrance door that captures and uses energy. They are joined by Dr. Mike Szar-

The Globe and Mail

THE GLOBE AND MAIL

THURSDAY, OCTOBER 30, 2008

Young bloods up the hip factor in long-standing field

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The University of Windsor congratulates Mechanical Engineering Professor, Dr. William Altenhof, winner of the 2008 Ontario Professional Engineers Award, “Young Engineer of the Year.”

Dr. Altenhof, working with the Auto3D™ Network of Centers of Excellence Child Safety Research Program, defines what happens to children in automobile crashes.

Best wishes for continued success!”

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Bioengineering innovations change lives

Researchers studying the use of engineering technologies to improve the health and well-being of Canadians are bringing the incredible imaginings of Star Trek to life. They have helped the vision impaired to see, the use of electrical stimulation to restore movement to spinal cord patients, and cure their bacterial infections.

Here is a sneak peek at a few up-coming bioengineering innovations that will change our lives forever.

Spinal cord patients get moving

The world-renowned bioengineering technology – proven by Michel Popovic, PhD, P.Eng., and his team of engineers and physicians – is giving stroke and spinal cord injury patients the use of their hands and arms.

“Out of a large spinal cord injured patients that benefited from our therapy, we had these exceptional cases of people that were not able to grasp anything prior to treatment,” says Dr. Popovic, “but at the end, they were able to do fine motor tasks such as noodlework.”

Functional electrical stimula-
tion was originally conceived of in the ‘60s as a permanent assistance device that can be worn externally to the body or as an implant, but Dr. Popovic and other researchers noticed spontaneous recovery in the patients using this technology.

We activate their muscles unaidedly and, after a certain number of sessions, patients start to move their arms on their own,” says Dr. Popovic. “While this therapy is still in development, many bioengineering technologies are either already in use or are poised to enter the market.”

Healing at the speed of light

Theralase Inc. has collaborat-
ed with Ontario Centres of Excellence (OCE) and the University Health Network to develop a low-level Laser Therapy (LLT) product that are already in use.

The lasers penetrate the skin and accelerate cell growth and reproduction, stimulate tissue repair for faster healing, reduce the formation of scar tissue, reduce swelling caused by burns or inflammation and increase blood flow to damaged areas – all with no physical side-effects.

Early cavity detection means less drilling

Toronto-based Quantum Den-
technologies grew out of a frustration about the reactive approach dentists must take in dealing with cavities (also known as caries).

The Canary Dental Cavity Detection System – developed with Ontario Centres of Excellence assistance – is a safe, low-power, hand-held laser that can detect areas of tooth decay only a fraction of a millimetre in depth. With help from the OCE, Dr. Mandelis and Dr. Abrams were determined to reverse unnecessary procedures and make tooth decay diagnoses more accurate. This gives dentists the opportunity to fill or reverse early-stage tooth decay in a minimally invasive way.

“OCE was the catalyst for the idea and supporting our work to bring us to market,” says Dr. Abrams. “It’s far more than just funding, it’s also helped to bring us to market.”

The Faculty of Engineering, Architecture and Science congratulates all of the 2008 recipients of Ontario Professional Engineers awards.

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**GOLD MEDAL**

**WALTER CURLOOK**

U of T 1950 Metallurgy; 1951 MASc; 1953 PhD
U of T Engineering Adjunct Professor

**ENGINEERING MEDAL**

**RESEARCH & DEVELOPMENT**

**MILOS POPOVIC**

U of T 1996 PhD

**ENGINEERING MEDAL**

**MANAGEMENT**

**MARK J. HUNDERT**

U of T 1971 Industrial
National Director, Hay Group Health Care Consulting

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**ENGINEERING MEDAL**

**YOUNG ENGINEERING AWARD**

**CONSTANTINE CHRISTOPOULOS**

U of T Engineering Assistant Professor

**ENGINEERING MEDAL**

**YOUNG ENGINEERING AWARD**

**JOHN T. W. YEOW**

U of T 1997 Electrical; 2000 MASc; 2003 PhD
Assistant Professor, University of Waterloo

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  - Aerospace: Biomedical and Electrical

- Master of Engineering in:
  - Aerospace: Biomedical
  - Environmental

- Master of Science in:
  - Aerospace: Biomedical

- Doctor of Philosophy in:
  - Aerospace: Electrical

carleton.ca/engineering-design
Many international engineering professionals in Ontario end up underemployed or not working as engineers. Thankfully, Ontario does have a tradition of helping them get licensed. About one-third of Ontario’s 70,000 licensed engineers were educated outside of Canada.

Now, with the Ministry of Citizenship and Immigration, the Ontario Society of Professional Engineers (OSPE) has developed a preparatory course for internationally trained engineers to prepare them for the Professional Practice Examination administered by Professional Engineers Ontario (PEO). Technical information; legal and ethical practices related to engineering in Ontario; and examination preparation, best approaches to case-based questions, and handling exam stress will be covered. “The course also includes some of the cultural aspects that are important to understand when people come to the Ontario-based workplace,” says Angela Shama, P.Eng., OSPE’s CEO.

Colin Lemoine of the Ontario Ministry of Citizenship and Immigration says the government has a history of partnering on such programs: “OSPE applied to the Ministry through an open Call for Proposals process and their proposal met the criteria for funding.”

Two courses will take place in January and September 2009 in Toronto. “Comprehensive licensure is in the public interest,” says Kim Allen, P.Eng., CEO and registrar of PEO. “A licence demonstrates that its holder has been rigorously educated, is experienced and is committed to a code of ethics. It also provides a means to make the holder accountable to the public.”

PEO also offers the first year of its Engineering Intern Training Program to foreign engineering graduates at no cost—a $230 savings.

Preparing international engineering grads for professional exam