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Message from the Chair



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As a proud member of PEO Oakville Chapter, it is my honour and privilege to serve as the Chapter Chair for 2018.

We have an excellent executive board who collaborate and work together to bring great events for you. I thank my predecessor, now Past Chair Len D'Elia, P.Eng. for his mentorship and helping us to build our brand over the past years.

Our primary goals are engaging our membership, nurturing community relations, and creating new opportunities for the future.

We are proud to work in supporting PEO's mission to regulate and advance the practice of engineering to protect the public interest. .

In March, we celebrated National Engineering Month at Holy Trinity High School in Oakville to inform the public about the importance of PEO and its regulatory mandate. More than 300 students and parents attended the event. We supported the motion at Queen's Park to formally mark March 1 as Professional Engineers Day. Our chapter continues to organize great speaking events like "The Canadian Space Program: At the Crossroads", and "What Makes a Robot". We also continue to actively collaborate with Oakville Chamber of Commerce to produce engaging events for members.

Most of our communications are via email and chapter website. It is vital that you maintain your contact information in PEO records in order to get notified of all our upcoming events and activities. Please visit our website at www.peo-oakvillechapter.ca for list of our events. I look forward to seeing you soon!

ROBOTS

Robots are automatic machines. Some robots can perform mechanical and repetitive jobs faster, more accurately, and more safely than people. Robots can also handle dangerous materials and explore distant planets.

Robots can sense and respond to their surroundings. They can handle delicate objects or apply great force—for example, to perform eye operations guided by a human surgeon, or to assemble a car. With artificial intelligence, robots will also be able to make decisions for themselves.

Electronic sensors are a robot's eyes and ears. Twin video cameras give the robot a 3-D view of the world. Microphones detect sounds. Pressure sensors give the robot a sense of touch—for example, to judge how hard to grip an egg. Built-in computers send and receive information with radio waves.

Artificial intelligence attempts to create computer programs that think like human brains. Current research has not achieved this, but some computers can be programmed perform tasks like advanced facial recognition in a crowd.

Source:

<https://www.factmonster.com/dk/encyclopedia/science-and-technology/robots>

**Know any Teacher, or
Students?**

**If so, keep an eye out for our
education events!**

Annual General Meeting and Licence Presentation Jan 30, 2018

The PEO Oakville Chapter AGM and Licence Ceremony was held at Rattle Snake Point Golf Club on January 30, 2018. Labour Minister Kevin Flynn, MPP (Oakville) participated AGM. He was joined by Halton Region Chair Gary Carr, Milton Mayor Gordon Krantz, and local Milton councillors Colin Best and Rick Di Lorenzo.

New Chapter Chair Parisa Mahdian, P.Eng. was elected at the AGM. The past Chair Len D'Elia, P.Eng., reviewed successes and achievements in 2017 and thanked members for their time and efforts in creating positive experiences for members and the public.

Twenty-one new engineers received their P. Eng licences issued by the PEO Head Office. Minister Flynn, Chair Carr and Mayor Krantz, all greeted attendants and congratulated all 21 new licence holders and their families. Minister Flynn, issued congratulatory certificates, as did Education Minister Indira Naidoo-Harris, MPP (Halton), and Pam Damoff, MP (Oakville North—Burlington). MP Damoff and John Oliver, MP (Oakville), although unable to attend, provided written greetings. PEO Past-President Bob Dony, P.Eng. was the keynote speaker with the topic of "PEO 4.0 and the Fourth Industrial Revolution." He spoke of ways in which industry and manufacturing impact PEO regulations, and the opportunities that change will bring.



National Engineering Month – Mar 3, 2018

National Engineering Month (NEM) was celebrated on March 3. This event is annually celebrated by PEO chapters across the province. This was a special year where March 1st was officially recognized as Professional Engineers Day in Ontario.

This year Oakville NEM was hosted at Holy Trinity Catholic Secondary School in partnership with the “For Inspiration and Recognition of Science and Technology” (FIRST) robotics team. The year event was organized by over 50 volunteers from PEO Oakville Chapter and Holy Trinity Catholic Secondary School’s robotics team. This is a well-attended event by the public. We also had all levels of government officials attend this year’s event, including Ontario Minister of Education and Minister Responsible for Early Years Child Care Indira Naidoo-Harris, MPP (Halton), Pam Damoff, MP (Oakville North—Burlington), and Oakville Ward 6 Town Councillor Tom Adams.

More than 230 participants joined in the celebration including over 120 children of all ages and their parents. As in past years, students were given the opportunity to speak with engineers in the ‘speed engineering’ activity, where they had the opportunity to learn about different engineering disciplines. There were engineers from all disciplines including power generation, bridge designers, communication, chemical, civil, as well as STEM students aspiring to join the next generation of engineers.



Previous PEO Oakville Chapter scholarship recipients also joined the event and talked about their experience in their engineering studies. Students also participated in a design challenge, where they designed a balloon-powered vehicle.

The Minister of Education spoke of the importance of inquisitiveness, imagination and STEM education. She asked parents to encourage STEM studies if their child shows an interest, and discussed how education is helping the next generation succeed in their career paths.

Lunch was also provided to all attendees. Over 50 prizes were handed out throughout the day, including top prizes for design challenge winners from each category (Junior, Intermediate, and Senior age groups).

Oakville Chapter engineers are a passionate and friendly group of people who love discussing engineering and explaining their chosen career. If you missed this year’s event or are interested in supporting the education committee, contact education@peo-oakvillechapter.ca. You will have a fantastic time. Also plan to attend our next year NEM - scheduled for March 2, 2019!



Newsletter Advertising!

This newsletter is an efficient way to present assorted commercial information to the engineering community in the Oakville-Milton area.

Your advertisement will reach approximately 3,000 of our licensed professional engineers in the area. This is an excellent way to reach a specific target audience for very little cost.

If you are looking for an engineer, advertise in our newsletter.

Contact Iyyad Jariri by email at newsletter@peo-oakvillechapter.ca

Ads in either a camera-ready, or (various) computer file formats are acceptable.

Intermediate:
(2" x 3½") \$115 per issue

Half page:
(4" x 7½") \$300 per issue

Full page:
(8½" x 7½") \$540 per issue.

The Canadian Space Program: At the Crossroads Mar 22, 2018

Why are entrepreneurs like Elon Musk, Jeff Bezos and Richard Branson fixated on space travel? A new generation of international entrepreneurs and nations are looking to change the world through new investments in space, and Canada needs to take part.

Michael Pley, P.Eng., retired CEO of Cambridge, Ontario-based Honeywell Aerospace (formerly COM DEV International Limited) offered an engaging presentation of past Canadian technological and commercial successes in space, as well as the potential for the Canadian space sector in these transformative times. A longtime advocate for the Canadian space industry, he currently chairs the Space Committee and is a member of the Executive Committee of the Board of Directors for the Aerospace Industries Association of Canada. He was appointed to the Government of Canada's Space Advisory Board in 2017 and continues to work part-time as a consultant to space companies, including entrepreneurial Subject Matter Experts (SMEs).



What Makes a Robot? – April 18, 2018

The 21st century has brought around much social and technological advancement: the proliferation of personal computers and the internet, social media, and – importantly – automation. Automation is becoming a larger and more significant part of our lives every day. A large portion of this automation is the field of robotics. Nick Gowland, an applications engineer in the Automotive/Industrial Division at Promation, provided a brief overview of robotics, without going so deep into the topic that calculus was required. It shed some light on the key characteristics of a robot by providing a showcase of robots past, present, and future.

The presentation provided an understanding of how robots came to be, what they look like now, and what they are going to look like in the future, which allowed attendees to see robotics' core principles. Moreover, attendees saw how advances in computing hardware and software have provided the future of robotics with incredible potential, as well as a cloud of ambiguity.



PEO Oakville Chapter 2018 Engineering Student Entrance Scholarship Extended to June 30, 2018

PEO Oakville Chapter is pleased to announce that we are currently accepting applications for three scholarships valued at \$500 – \$1000.

The scholarships are awarded on the basis of academics, community contributions, extracurricular activities and the student's intention to pursue a career in engineering profession. To qualify for this award, the student must be graduating from a secondary school in Oakville or Milton in 2018, and enroll in a Canadian Engineering Accreditation Board (CEAB) accredited Ontario university engineering program for 2018-2019 school year.

Please refer to PEO Oakville Chapter website to learn more: www.peo-oakvillechapter.ca/category/events/

APPLICATION DEADLINE:

Complete application packages must be sent via email To: education@peo-oakvillechapter.ca **no later than 11:59 pm on Saturday, June 30, 2018 for consideration.**

Smart Hospitals – April 20, 2018

On Friday, April 20, PEO Oakville Chapter co-hosted an event in partnership with the Oakville Chamber of Commerce titled “Smart Hospitals: Hospital Innovation from building to bedside”. The event, with approximately 100 people in attendance, was sponsored by Cisco, Halton Healthcare and the Oakville Hospital Foundation and featured three key note speakers followed by a round-table question and answer session, moderated by our chapter secretary. The three speakers were:

- Bill Bailey, Vice President, Redevelopment, Halton Healthcare
- Shanti Gidwani, National Senior Director, Healthcare, Cisco Canada
- Sandy Saggar, Chief Information Officer, Halton Healthcare

The leading technologies used at the new Oakville Hospital were presented, including how it achieved Leadership in Energy and Environmental Design (LEED) Gold Certification, robotic diagnostic testing labs and drug delivery, computer infrastructure and systems, and waste and water systems. We are in talks with the Chamber to co-host another event in the fall and are excited to be working with them on this series of events.



Government Liaison Program Update

The Government Liaison Program (GLP) was established to ensure that government, PEO members and the public continue to understand and recognize PEO’s regulatory mandate, in particular its role regulating the profession in the public interest. GLP goals include:

- Helping foster a better understanding of engineering work among Members of Provincial Parliament (MPPs);
- Increasing MPPs’ understanding of PEO’s regulatory role to protect the public interest;
- Offering unique knowledge and expertise to government before considering new policy related to engineering work and regulation of engineering; and
- Developing relationships among MPPs, local engineers and PEO chapters.

Government Liaison Program (GLP) Update Continued

It is an exciting year for engineers in 2018. Ontario's legislative assembly formally recognized March 1st, 2018, as the first official Professional Engineers Day in Ontario—the first of its kind in Canada. This initiative was led by the Ontario Society of Professional Engineers (OSPE) and received support from PEO and its chapters.

Professional Engineers Day recognizes the vital role that professional engineers play in building, innovating and safeguarding our province. Professional engineers are trusted and ethical leaders, builders and doers. They are on the front lines of innovation and create paradigm-changing solutions to complex problems that drive and improve the world around us.



In addition, the 2018 Provincial Election has been scheduled for June 7th, 2018. Ontario Provincial electoral ridings will increase from 107 to 124. In anticipation of this, the new 124 ridings have been assigned to PEO Chapters based on geographical location. In cases where the riding overlaps the boundaries of more than one chapter, the riding is assigned to the chapter whose area contains more of the riding.

After the election, PEO Oakville Chapter will cover three ridings instead of the current two ridings. They include Milton, Oakville North-Burlington and Oakville. Our Chapter GLP Committee will continue connect with federal, provincial and municipal elected officials and ensure a better understanding of engineers and engineering work among the politicians.

Therefore, the need for GLP volunteers will be greater. If anyone is interested in knowing more about the Government Liaison Program or supporting our chapter's GLP committee, please contact Jeffrey Lee at glp@peo-oakvillechapter.ca for more information

Licence Assistance Program – May to Nov 2018

The Licensure Assistance Program (LAP) started on May 23, 2018. The program is scheduled to continue until November 30, 2018. Twenty EITs and an equal number of guides are participating in this year's program. The kickoff was a great success! Thanks to all those who are participating!

We wish our future licencees all the best as they embark on their journey towards becoming Professional Engineers.



upcoming events

OAKVILLE CHAPTER

SPRING 2018

June 2, 2018

Coffee
Tour



Curious about coffee? Want to know more about the mysterious brown liquid that fills your cup every morning? This is the perfect workshop/tour for you!

We take you through the process of how the coffee bean, which is actually the seed of a fruit, gets from the tree to your cup.

Space is limited – Register to save

June 7, 2018

Teacher's Appreciate
Night



PEO Oakville Chapter is inviting all local Oakville and Milton Teachers to our Teacher Appreciation Night!

Contact Sarah Majlesi, P.Eng, Education Committee Chair for more details
education@peo-oakvillechapter.ca

June 23, 2018

Annual Oakville/Milton
Chapter BBQ



Join us for the PEO Oakville Chapter annual family BBQ day at Kelso Park, Milton. Keep an eye out for an email announcement to register yourself and family members. We expect you to bring a cheerful smile and lots of exuberance.

July 8, 2018

Oakville Children's
Festival



Stop by PEO Oakville's station at the Oakville Children's Festival for a quick design activity!

Location: Oakville's Queen Elizabeth Park

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