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Message from the Chair



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I want to begin by saying thank you to all of the members who selected me as their Chair for 2017. I look forward to another great year working together with our Executive Board to deliver a calendar full of interesting events. We have chosen a strong board again this year, which is made up of new and existing members. We will continue to improve service to our membership as well as deepen our position within the Oakville and Milton communities.

One of my main goals as chair is to focus on building strong partnerships. Earlier this year, our chapter held an event at the Oakville Conference Centre where OPG CEO Jeff Lyash was our guest speaker.

In March, we coordinated National Engineering Month at Holy Trinity High School in Oakville, where almost 200 attended to learn about engineering through design competitions and meeting engineers. In June, we will be partnering with the Hamilton-Burlington Chapter to hold an event at McMaster Innovation Park and give our members the opportunity to find out more about this unique innovation incubator. We are teaming up with the Oakville Chamber of Commerce again this year to deliver a symposium on private public partnerships (P3), which will be held on November 17th.

During my time as chair, I will do everything possible to keep the recognition of our brand as the “the engineers” in our community growing and thriving. I want to thank my predecessor, now Past Chair, Sohail Nasser P.Eng. for helping to build our brand and for his mentorship over that last two years.

Lastly, I want to communicate to all of our members about the importance of an updated email address on the PEO website. It is vital that we have correct addresses in place to ensure that all communication delivered electronically is received by as many members as possible. Please stay tuned for upcoming e-blasts and continue to visit our website at www.peo-oakvillechapter.ca for upcoming events. I look forward to seeing you soon!



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Mechanical Engineering

Mechanical engineering is the discipline that applies engineering, physics, and materials science principles to design, analyze, manufacture, and maintain mechanical systems. It is the branch of engineering that involves the design, production, and operation of machinery. It is one of the oldest and broadest of the engineering disciplines.

The mechanical engineering field requires an understanding of core areas including mechanics, kinematics, thermodynamics, materials science, structural analysis, and electricity. In addition to these core principles, mechanical engineers use tools such as computer-aided design (CAD), and product life cycle management to design and analyze manufacturing plants, industrial equipment and machinery, heating and cooling systems, transport systems, aircraft, watercraft, robotics, medical devices, weapons, and others.

The field has continually evolved to incorporate advancements; today mechanical engineers are pursuing developments in such areas as composites, mechatronics, and nanotechnology. Mechanical engineers may also work in the field of biomedical engineering, specifically with biomechanics, transport phenomena, biomechatronics, bionanotechnology, and modeling of biological systems.

Source:

https://en.wikipedia.org/wiki/Mechanical_engineering

Know any Students?

If so, keep an eye out for our student events!

Symposium: Smart Infrastructure – Nov 25, 2016

We had over 350 people attend our Smart Infrastructure symposium on November 25, 2016. The symposium was held in collaboration with the Oakville Chamber of Commerce. The event keynote speakers were Adam Vaughan, MP (Spadina-Fort York), Parliamentary Secretary to the Prime Minister; Bruce McCuaig, President and CEO of Metrolinx; and Ehren Cory, Divisional President of Infrastructure Ontario. Also participating in the event were Oakville Mayor Rob Burton; Oakville councillors Tom Adams (Ward 6) and Sean O'Meara (Ward 1); and Milton City Councillor Colin Best (Wards 2,3,4,5). The event was run with the generous support of our sponsors PwC, Hatch, Siemens Canada Limited, CN, Cisco Canada, Aird & Berlis LLP and Air & McBurney LP.

The symposium was intended to address questions around the need for infrastructure spending, project goals, measuring success, and what kinds of projects make infrastructure smarter. The symposium was a great success and we look forward to working with the Oakville Chamber on our next symposium on November 17, 2017 where the topic will be public-private partnerships and how to get involved in these types of projects.



AGM and Licence Presentation – Jan 25, 2017

The 2017 Annual General Meeting (AGM) and licence presentation ceremony was held on Wednesday January 25th, 2017 at Rattlesnake Point Golf Club. During the licence presentation ceremony, ten new inductees received their Professional Engineers (P.Eng.) licence.

PEO Oakville Chapter also had the honor of hosting North Oakville-Burlington MP Pam Damoff; Oakville and Milton mayors Rob Burton and Mayor Gordon Krantz; and Milton Regional Councillor Collin Best. From PEO, President George Comrie, both West Central Councillors Warren Turnbull and Danny Chui, Registrar Gerard McDonald, GLC Chair Darla Campbell, PEO GLP Manager Jeanette Chau, and OSPE CEO Sandro Perruzza were also in attendance. During the event, members had an opportunity to vote for new executive board members for 2017 consisting of volunteers who have put their name forward to dedicate their time to the executive board. Congratulations to all of the new licencees, and the new executive board.



Future of Energy – Feb 8, 2017

On February 8th, Jeff Lyash, president and CEO of Ontario Power Generation, discussed OPG's role in Ontario's clean energy future and the company's "Power with Purpose" philosophy while outlining the engineering and planning that has gone into OPG's refurbishment of the Darlington Nuclear Station and continued operations of its Pickering Station until 2024.

Mr. Lyash also outlined OPG's approach to social licence, especially its partnerships with Indigenous communities. OPG produces about half of the electricity Ontario relies on each day, and it does so producing electricity that is more than 99% free of GHG and smog-causing emissions at a price that is about 40% less than its competitors. This blend of nuclear and hydro power provides an economical base to allow further decarbonization of the provincial economy.

There were over 130 PEO Oakville members in attendance at the event at the Oakville Conference Centre. Our event partner was the McMaster Faculty of Engineering which was represented by two tables of students and staff. Following Mr. Lyash's presentation, there were interesting discussions which indicated a high level of interest in Ontario's clean energy future.



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.

National Engineering Month – Mar 4, 2017

Our Oakville Chapter decided to title this year's events "There's a Place for You" – and give it a twist with our design challenge of a heart valve replacement.

In our welcome ceremony, our first guest speaker was Tom Adams, Oakville regional and town councillor, who welcomed the participants and parents. Our second speaker was Liam Ma, 2016 PEO Oakville Chapter scholarship recipient and a first-year engineering student at McGill University who participated in a Q/A talk with the audience. His stories ranged from university life to his hobbies. The students were captivated with his engineering student perspective.

We had ten speed engineers who brought a motor sample and a nuclear power pellet. The discovery room was bustling with preschoolers (or mini-engineer hopefuls) building with blocks and colouring engineering-themed drawings, while the older attendees engaged themselves fully in the heart valve design challenge by building a model heart with a heart valve using cardboard and miscellaneous materials.

At the lunch hour, OSPE provided mini design challenges, including airplane models, to keep the participants fully engaged. After lunch, we reviewed and evaluated each team's heart valve design by counting the number of blood cells, i.e. marbles, that could pass through from the first chamber to the second chamber but not the other way around.

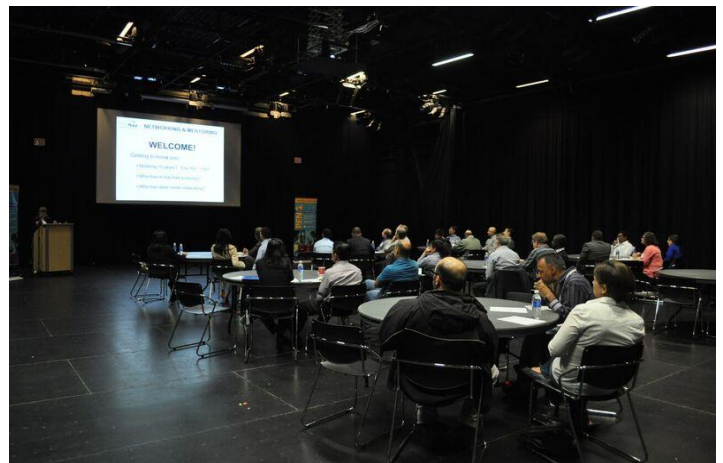
The winning teams had the most creative design, the best performance and the least building materials. Teams were awarded with a variety of prizes, such as Lego. Labour Minister and Oakville MPP Kevin Flynn and Oakville North-Burlington MP Pam Damoff handed out the prizes as the event guests. More than 80 of the participants walked away as lucky winners, with each of them a bit more encouraged to think of engineering in a more exciting and creative way. The event received positive survey feedback. Our chapter came together to make this happen. The team was brilliant. Our volunteers were second-to-none!



How to Network & Find a Mentor: Making Meaningful Connections for Career Success – May 3, 2017

Jayne Huhtanen, P.Eng of Focal Point Coaching ran a workshop for approximately 35 PEO Oakville Chapter members on May 3, 2017 at QEPCC on “How to Network & Find a Mentor”. She talked about how mentoring can make a difference in your career, what to look for and expect in a mentor, and how to get the most out of your mentoring relationships.

Group exercises were done where members learned how to develop their personal networking plan, including where and how to most effectively network, what to include in your “elevator pitch” and how to systematize your follow-ups to build relationships over time with the people you meet. Much positive feedback was received and attendees now look forward to using their newfound skills to learn and grow so that they can transform their business, professional and personal lives.



Licence Assistance Program (LAP) Workshop – May 23, 2017

The License Assistance Program (LAP) Special Training Workshop was held on May 23, 2017 at the Queen Elizabeth Park Community & Cultural Centre in Oakville. Four guides and eight EITs attended the training with PEO EIT Manager Tracey Caruana providing training to all participants. Both the guides and the EITs benefitted from this training. This year we have 14 EITs & 12 guides participating in the LAP Program. The appreciation event will be held in early January 2018. This program was a great success last year—thanks to all those who participated. We wish our future licensees much success as they embark on their journey towards becoming professional engineers.



Toronto Airport Tour – June 2, 2017

On June 2, 2017, twenty chapter members enjoyed an interesting visit to Canada's busiest and largest aviation hub - Toronto Pearson Airport. The event was sold out within hours of posting.

Our members had a unique look at what it takes to keep this busy airport running every day. They stopped at the Airfield Maintenance Facility, South Firehall, and Terminal 1 and viewed the operations in action. They also had an up-close view of Boeing 787 Dreamliner and a close encounter with an Airbus 380.

Toronto Pearson, by the numbers:

5: the number of runways at Toronto Pearson.

180: the number of destinations to which they fly.

49,000: the number of people employed at Toronto Pearson.

44,000,000: the number of passengers in 2016.



Government Liaison Program (GLP) Update

The Government Liaison Program (GLP) was established to ensure that government, PEO members and the public continue to recognize PEO's regulatory mandate, in particular its contributions to maintaining the highest level of professionalism among engineers working in the public interest. The goals for the GLP are to:

- Help foster a better understanding of engineering work among Members of Provincial Parliament (MPPs);
- Increase MPPs' understanding of PEO's regulatory role to serve and protect the public;
- Offer unique knowledge and expertise to government before considering new policy direction related to engineering work and regulation of engineering; and
- Develop relationships among MPPs, local engineers and PEO chapters.

Our chapter was honoured to be recognized for our efforts in GLP activities and received the GLP Chapter Award for the second time. Through the support from our executive board, our chapter and the Mississauga Chapter held the first joint-chapter "Take Your MPPs to Work" event last July, where three MPPs (including two cabinet ministers) visited the Credit Valley Conversation Authority to learn about storm water management and the benefits of low-impacted developments.

In addition, our chapter and York Chapter will be co-hosting an East Central and West Central GLP Academy and Congress at PEO headquarters in Toronto on December 2, 2017. GLP academies and congresses are organized for engineering leaders to discuss issues with MPPs and provide training to better understand the issues, relationships and personalities in government.

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

upcoming events

OAKVILLE CHAPTER

SPRING 2017

June 25, 2017

Annual Oakville/Milton
Chapter BBQ



This will be a family fun day at Kelso Park, Milton. Keep an eye out for an email announcement to register yourself and family members. Everything will be taken care of by the chapter. We expect you to bring a cheerful smile and lots of exuberance.

June 30, 2017

High School
Scholarships



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

Complete application packages must be sent via email to education@peo-oakvillechapter.ca no later than 11:59 pm on Friday, June 30, 2017 for consideration.

July 9, 2017

Oakville Children's
Festival



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

July 2017

Beer
Tasting



Details coming soon!

September 14, 2017

Certificate
Presentation



The event will be held at Holiday Inn Oakville (Centre) on 590 Argus Rd.

2017-2018 Officers & Executive Board Members

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