

September 2015

WEST TORONTO CHAPTER  
PROFESSIONAL ENGINEERS ONTARIO  
<http://www.westtoronto.peo.on.ca>

## Chair's Message for Fall 2014 by Barry Westhead, P.Eng., FEC

Greetings to all WTPEO Chapter members from the members of your 2015 PEO West Toronto Chapter Executive Committee.

In the first half of 2015, your Executive Committee successfully produced three informative technical presentations (usually the 4<sup>th</sup> Wednesday evening of each month) and a tour of the Toronto Deep Water Cooling Plant. In addition, an excellent town-hall style meeting was staged in collaboration with the East Toronto Chapter and OSPE on the Future of the Gardiner Expressway which attracted over 100 local engineers; AND to top off the schedule, our Women in Engineering Committee in collaboration with Toronto Rehabilitation Institute and University of Toronto Engineering ran an exemplary event in August. Here is a paraphrased excerpt from the event report:

*The Women in Engineering and Science (WIES) Design Competition is open to female and male students in grades 6 - 9 to help them discover the excitement of Engineering and Science. The event ran over the course of two weekends, August 8th & 9th and August 15th & 16<sup>th</sup>, and was attended by over 50 participants and 30 volunteers.*

*The purpose of the competition was to get youth engaged in engineering and science and to give them the opportunity to do some hands-on engineering work in a fun and collaborative environment. Teams of 3-4 attended five different workshops and worked to design and build a prosthetic arm.*

Several of our executive and volunteers participated in staging the 2015 Engineering Innovations Forum at the Ontario Science Centre; a part of the annual 'Engineering Week' activities in March.

Among our recurring Chapter events are the two semi-annual Engineering License Presentation Ceremonies held at the Islington Golf Club wherein new P.Eng.'s are given the opportunity to include their friends and families as they are formally recognized and licensed by PEO. These new Engineers represent the future of Canadian technology.

We have subcommittee members involved in areas such as Education Outreach, Engineering Leadership, Women in Engineering, Environmental Conservation and Climate Change as well as maintenance of the chapter website.

There are typically as many as two dozen participants on our Executive Committee so each member need only contribute a few hours to realize the great rewards of accomplishment by your local chapter of Professional Engineers. Chapter activities are by definition geographically local – why not come out and discover which of your neighbours are Engineers!

Involvement, outreach, communication and commitment characterize the nature of the participation of your Chapter Executive team. I urge you to come out and involve yourself in your Chapter's activities. You can start immediately as an Executive Committee volunteer by emailing <[westtoronto@peo.on.ca](mailto:westtoronto@peo.on.ca)>. Your chapter represents your local Engineering community – please get involved.

"The value of an individual should be seen in what they give, and not in what they are able to receive." Albert Einstein.

Barry Westhead, [P.Eng.](#), [FEC](#)  
West Toronto Chapter Chair

## Licensing Ceremony, Tuesday, May 12, 2015

On Tuesday, May 12, 2015, the West Toronto Chapter of the Professional Engineers of Ontario (WTPEO), welcomed 49 new Professional Engineers to the PEO and our 2900 member-strong West Toronto Chapter. The ceremony was held at the Islington Golf and Country Club in Toronto, and MC'd by **Richard Weldon**, P.Eng. The new licence recipients presented to the assembled guests at this ceremony were:

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| <p><b>Ahmad Abu Sharkh</b>, P.Eng.<br/> <b>Bennett Ralph Banting</b>, P.Eng.<br/> <b>Jimmy Barros</b>, P.Eng.<br/> <b>Mark Edward Bresee</b>, P.Eng.<br/> <b>Athanasios Broumas</b>, P.Eng.<br/> <b>Loreto Nicola Caprara</b>, P.Eng.<br/> <b>Michael Angelo Caufin</b>, P.Eng.<br/> <b>James Shu-Hen Chen</b>, P.Eng.<br/> <b>Laura Michelle Christina Chiu Togunov</b>, P.Eng.<br/> <b>Elnaz Darian</b>, P.Eng.<br/> <b>Birsen Donmez</b>, P.Eng.<br/> <b>Zachary Benjamin Ellis</b>, P.Eng.<br/> <b>J. Zachary Fishman</b>, P.Eng.<br/> <b>Andrew Paul Flynn</b>, P.Eng.<br/> <b>Luke William Gane</b>, P.Eng.<br/> <b>Vandad Ghooparanloo</b>, P.Eng.<br/> <b>Mauro Evangelho Godinho</b>, P.Eng.</p> | <p><b>Ivan Gregoric</b>, P.Eng.<br/> <b>Kirsten Elizabeth Hoedlmoser</b>, P.Eng.<br/> <b>Barbara Patricia Hood</b>, P.Eng.<br/> <b>Charles C. S. Hsiao</b>, P.Eng.<br/> <b>Kyle James Hurson</b>, P.Eng.<br/> <b>Simon Alexander Jones</b>, P.Eng.<br/> <b>Wynn Luu</b>, P.Eng.<br/> <b>Katrina Belinda MacDonald</b>, P.Eng.<br/> <b>Brian Andrew Macro</b>, P.Eng.<br/> <b>Mohamad Anoir Mahmoud</b>, P.Eng.<br/> <b>William Colin McCready</b>, P.Eng.<br/> <b>Donal Eoin McCullagh</b>, P.Eng.<br/> <b>Adriano Michael Memme</b>, P.Eng.<br/> <b>Daley Travis Mikalson</b>, P.Eng.<br/> <b>Miheer Arun Mohile</b>, P.Eng.<br/> <b>Rogerd Mauricio Morales Mendoza</b>, P.Eng.</p> | <p><b>Mark Tullio Morreale</b>, P.Eng.<br/> <b>Robert J. Netopilik</b>, P.Eng.<br/> <b>Vincent Son Anh Ngo</b>, P.Eng.<br/> <b>Mridula Das Oravakandy</b>, P.Eng.<br/> <b>Patricia Elizabeth Clitheroe Osika</b>, P.Eng.<br/> <b>Marc-Anthony Paoliello</b>, P.Eng.<br/> <b>Eugene Yijun Peng</b>, P.Eng.<br/> <b>Veronica Restrepo</b>, P.Eng.<br/> <b>Abdallah Shahrour</b>, P.Eng.<br/> <b>Benjamin Joseph Shindman</b>, P.Eng.<br/> <b>Ryan Alexander Snow</b>, P.Eng.<br/> <b>Pedro Filipe Fernandes Sousa</b>, P.Eng.<br/> <b>Garima Takyar</b>, P.Eng.<br/> <b>Neil Jason Thomas</b>, P.Eng.<br/> <b>Atamjeet Singh Walia</b>, P.Eng.<br/> <b>Gong Xin Xu</b>, P.Eng.</p> |
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The head table guests presiding over this ceremony included **George Comrie**, P.Eng., CMC, FEC, President-elect; **Danny Chui**, P.Eng., FEC, West Central Region Councillor; **Warren Turnbull**, P.Eng., West Central Region Junior Councillor; **Matthew Ng**, P.Eng., FEC, PEO Chapters Manager; **Gerard McDonald**, MBA, P.Eng., Registrar, and our special guest speaker **Dr. Milos Popovic**, PhD, Senior Scientist, Toronto Rehabilitation Institute (TRI) - UHN.

On behalf of **Barry Westhead**, P.Eng, FEC, Chapter Chair, WTPEO, who introduced the new chapter license recipients, and the chapter board, we want to congratulate all who received their license at this ceremony. We also want to gratefully acknowledge the support and contributions made by friends, family, and guests who helped our license recipients achieve their goals. Truly another milestone in our license recipient's career.

The chapter executive would like to also take this opportunity for all our new license recipients to join us at upcoming seminars and events organized by the chapter. You will automatically receive eBlasts of upcoming chapter events, but you should also check repeatedly the calendar page on the chapter website (<http://www.westtoronto.peo.on.ca>) for upcoming chapter events. Follow the tabs to the Events Calendar. Please make certain that your personal profile is always up to date in the PEO Database.

I would also like to thank all the volunteers who helped to make this one of the smoothest running and successful license ceremonies for the West Toronto Chapter.

Photos from this ceremony have been posted to our chapter website at <https://plus.google.com/114203728228984363283/posts/SWWz3JVtwf>.

**Georg A. M. Kralik**, P.Eng., FEC  
Past Chair, WTPEO.  
Vice Chair - Women in Engineering Committee  
License Presentation Coordinator  
Engineer-in-Residence - West Toronto Chapter, Professional Engineers Ontario (WTPEO)

**WTPEO Site Visit to Enwave's Deep Lake Water Cooling Plant** by Tom Markowitz, P. Eng.

On June 10<sup>th</sup>, forty enthusiastic WTPEO members and guests visited the John Street pumping station of Enwave's Deep Lake Water Cooling system.

The Enwave Deep Lake Water Cooling system is a world first for Toronto. The system uses cold water from the depths of Lake Ontario to provide air conditioning for over one hundred large buildings in downtown Toronto, including Queen's Park, the Air Canada Centre, Commerce Court, and Toronto's Old City Hall and New City Hall. Enwave can provide this cooling energy at one-ninth of the power that would be required to provide the same cooling using mechanical chillers. Thus, the Enwave system reduces emissions of greenhouse gases and air emissions from Ontario's electrical system.

To see description of Enwave's Deep Lake Water Cooling system, open the following link: [http://enwavetoronto.com/district\\_cooling\\_system.html](http://enwavetoronto.com/district_cooling_system.html). Because space is limited for visitors to the John Street plant, the tour

was limited to forty people. The demand for registrations greatly exceeded the available places. WTPEO could consider asking Enwave for another tour in a few months' time.

Enwave also operates a large district steam system to heat many large buildings in downtown Toronto. Enwave's Deep Lake Water Cooling Plant appears to be an excellent candidate for Take your MP to Work Day.

Thanks to Maja Sugic, P. Eng., of the Environment Committee for putting together the flyer for this event.

Tom Markowitz, P.Eng.  
WTPEO Environment Committee Chair

### **Women in Engineering and Education Outreach** by Hilary Whiting, E.I.T.

The WTPEO Women in Engineering Committee teamed up with the Toronto Rehab Institute and the University of Toronto to hold the second annual Women in Engineering and Science (WIES) Design Competition. The competition was held over the course of 4 days, August 8, 9, 15 and 16, 2015, where over 50 students in grades 6-9 had the opportunity to try their hands at engineering design and prototype building. Dr. Geoff Fernie, PhD, P.Eng., kicked off the competition and introduced the participants to the vital role engineering plays in society.

The theme of this year's competition was tied into the Parapan Am games and the participants were tasked with designing and building a prototype of a transradial prosthetic arm. The participants worked in teams of three or four along with an engineering mentor who currently studies or works in the field. The groups came up with innovative and thoughtful designs, which were judged based on strength, cost efficiency and creativity.

The aim of the competition is to engage youth and promote a collaborative environment that is respectful and open to the ideas brought forward by all. For that reason, this year's competition was open to both girls and boys and ultimately 53% of the attendees were female and 47% were male.

We hope to continue to make this an annual event. A big thank you to all the participants, parents and dedicated volunteers. We also wish to thank our partners for their generous support.

### **Government Liaison Project (GLP) Activities** – Parvin Marzban, P. Eng.

**May 5<sup>th</sup>** - Jim Chisholm: one of the chapter's GLP committee members attended a lunch-time meeting, where Glen Murray (Lib MPP- Toronto Center, Minister of the Environment and Climate Change) gave an excellent talk on Climate Change. Jim had an opportunity to briefly talk with Minister Murray and invited him to speak at a meeting of our Chapter on Climate Change. Mr. Chisholm is planning to connect with the chapter Environment Committee to organize a symposium featuring Glen Murray on climate.

**June 29** - Parvin Marzban attended the PEO GLP Chairs Conference Call. Points discussed included:

- **Take your MPP to work Day:** Template letter to MPP, template letter to Companies, and guidelines.
- Sharing Chapter's experience of setting up interviews with MPPs.
- Potential GLP activities that PEO Chapters can engage including: Town halls, technical exhibit, inviting MPPs as key note speakers, all candidates' debate, general election, and by-election. (Note that the 2015 election is Federal. PEO's jurisdiction is Provincial)

In the end, all participants agreed to have quarterly GLP Chair engagement meetings.

**July 23** - Mike Colle, (Lib MPP, Eglinton- Lawrence) and Parliamentary Assistant to the Minister of Labour hosted his annual community BBQ event at the Columbus community center in Toronto. PEO West Toronto Chapter GLP Chair Parvin Marzban attended the event. Ms. Marzban spoke to Mr. Colle and other community members who were present.

Mr. Colle has been actively involved with PEO in the past, including attending a Take Your MPP to Work Day last year. When he served as the Minister of Citizenship and Immigration, he worked closely with PEO when introducing the Fair Access to Regulated Professions Act.

### **Education Committee** – Marina Friere-Gormaly, M.A.Sc., EIT

The PEO Education Conference held Friday May 29th to Saturday May 30th was attended on behalf of the PEO West Toronto Chapter by Education Committee chair Marina Freire-Gormaly, M.A.Sc., EIT. The conference provided an excellent introduction to the current status of Math and Physics education in the province and how as engineers we can influence improvements in provincial curriculum and inspiration to young students.

As well, through several guest speakers, break-out sessions and panel discussions, the areas for improvement were highlighted. Prof. Anna Stokke gave an enthusiastic presentation on how the K-12 math curriculum, to the detriment of the students, has gradually moved towards discovery-based learning instead of memorization, algorithmic methods and practice-based learning. Prof. Stokke emphasized that discovery-based learning which gives more importance to hands-on learning, project-based learning, and open-ended questions instead of practice-based instruction overwhelms students and does not give them a strong foundation in basic math essential to higher math such as algebra and calculus. She recommended engineers and parents contact their local representatives to ensure the math curriculum re-emphasizes algorithmic methods which are faster and necessary for higher math.

As well, for parents, she recommended Jump Math as an excellent supplement to student learning. The conference also introduced the "Engineer-In-Residence" program. As an engineer, you can inspire young people in the areas of Science, Technology, Engineering and Mathematics by providing local elementary students with insights to your current role. Engineers-In-Residence are paired with a classroom in the GTA and present periodically to the class. As well, they are a resource for the teacher to clarify concepts that are taught in the classroom, or to bring real-world applications to bring the course content to life.

All the details to register to become an Engineer-In-Residence can be found at <http://eir.ewb.ca/>. The conference was a great networking opportunity with chapters across Ontario and with experts in the field of education. I look forward to putting this new knowledge into practice in our future education events for the PEO West Toronto Chapter.

On Sept. 10th, PEO West Toronto Chapter Education Committee chair, Marina Freire-Gormaly, MAsc., EIT and PEO West Toronto Chapter volunteer, Faizul Mohee, P.Eng., M.E.Sc., attended an inspiring presentation by Gordon Cressy and Laura Casselman on the importance of youth participation and young people being actively engaged within society and their local community. Gordon Cressy has been involved in education in the province of Ontario, previously with the University of Toronto as a vice-president of development and university relations, and currently as President of the George Brown College Foundation.

The University of Toronto currently has a leadership award named after Gordon Cressy given to graduating students who have made outstanding extra-curricular contributions to their college, faculty, school, or university. Marina Freire-Gormaly is a Gordon Cressy Leadership Award Winner from 2011.

**Check us out on Twitter, facebook and LinkedIn!** Just google 'West Toronto PEO'.

| <b>WEST TORONTO CHAPTER BOARD</b>                  |   |  |   |
|--|---|--|---|
| <i>Officer Positions:</i>                          |   |  |   |
| <b>Barry J. Westhead</b> , P.Eng., FEC             | Chair   | <b>Eugen Karanxha</b> , P.Eng.           | Past-Chair                                      |
| <b>Catharine Hancharek</b> , P. Eng.               | Vice-Chair, Women in Engineering (WiE) Chair      | <b>Rishi Poddar</b> , P. Eng.            | Secretary                                       |
|  |   | <b>Pat Scanga</b> , P.Eng., FEC          | Treasurer                                       |
| <i>Executive Positions:</i>                        |   |  |   |
| <b>Behzad (Ben) Ashtiani</b> , EIT                 | IT Committee                                      | <b>Thomas Markowitz</b> , P.Eng.         | Environmental Chair                             |
| <b>Jim Chisholm</b> , P.Eng.                       | Past Chair, Volunteers Chair, GLP member          | <b>Parvin Marzban</b> , P.Eng.           | Gov't Liaison Program (GLP) Chair               |
| <b>Marina Friere-Gormaly</b> , MAsc., EIT, LEED GA | Education Chair                                   | <b>Richard Mraz</b> , P.Eng.             | Director of Communications                      |
| <b>Sanja Hulec</b> , EIT                           |   | <b>Hilary Whiting</b> , EIT              | Member-at-Large, Volunteers, Co-Vice Chair, WiE |
| <b>Georg A. Kralik</b> , P.Eng, FEC                | Licence Ceremony Co-ordinator, Co-Vice Chair, WiE | <b>Mehdi Zanganeh</b> , P.Eng.           | I.T. Committee                                  |
| <i>Committee Members (Non-voting):</i>             |   |  |   |
| <b>Jenan Abderrahman</b>                           |   | <b>Steven Lum</b> , P. Eng.              |   |
| <b>Ahmad Al-Dabbagh</b> , P.Eng.                   | Registration                                      | <b>Roman Lysiak</b> , P.Eng., FEC        | Member-at-Large                                 |
| <b>Manoj Choudhury</b>                             |   | <b>Faizul Mohee</b> , P. Eng., M. E. Sc. |   |
| <b>Paul Cullier</b>                                |   | <b>Heather Murdock</b> , EIT             |   |
| <b>Lise Eamer</b> , P. Eng.                        |   | <b>Sergey Slynko</b> , P. Eng.           | I.T. (Social Media)                             |
| <b>Anthony Hiller</b>                              |   | <b>Khanh Tran</b> , P. Eng.              |   |
| <b>Arezoo Karemian</b>                             |   | <b>Rob Willson</b> , P. Eng.             |   |
| <b>Summit Lalwani</b>                              |   | <b>Jeff Wiseman</b> , P.Eng.             | Newsletter                                      |