

Publication of this newsletter was approved by the executive board members of the WTPEO Chapter.

The Official Newsletter of the Willowdale/Thornhill PEO Chapter

The Chronicle



CHAIR'S MESSAGE

Greetings PEO Willowdale-Thornhill Members As we enter the winter season the board of executives remains on providing engaging opportunities for members to network and develop professionally. In the upcoming months we look forward to increasing our collaboration activities with other PEO chapters and the Ontario Society of Professional Engineers (OSPE) to offer additional professional development opportunities for members.

I would like to remind all members that our chapter offers a number of events for members, including site visits, seminars, conferences, symposiums, and informal educational activity. PEO accepts three broad types of technical continuing knowledge activities: formal education, informal education, and contributions to knowledge. A more detailed explanation is available online at http://www.peo.on.ca/index.php?ci_id=30417&la_id=1#ck-acceptable.

On behalf of our executive team, thank you all for your participation and the success of our chapter. A personal thank to all of those who volunteer their time for the benefit of the profession. Volunteering with the chapter offers rewarding opportunities to build your professional network, back to the community and support the profession. We are always looking for motivated individuals with new ideas to join our diverse team. I encourage every member to read the chapter communications and learn more about the various opportunities to volunteer within our great organization.

If you have any questions, suggestions or comments please don't hesitate to share them with me at chair@wtpeo.org. I hope to connect with you all at future events and activities.

Regards,

Nick Shelton, P.Eng, PMP

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The Chronicle publishes articles of interest to the membership of the Willowdale-Thornhill Professional Engineers Ontario (PEO) Chapter.

The content of this newsletter does not necessarily reflect the opinions or policies of the Willowdale-Thornhill PEO Chapter. The chapter or PEO do not assume responsibility for the opinions expressed herein.

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Thank You and Goodbye to Vimbai Munyukwi

—By Mohinder Grover, P.Eng., FEC, FEIC.



It is with mixed feelings that we say, “Thank you” and Goodbye to Vimbai Brenda Munyukwi, P.Eng., PMP, MBA.

“Thank You” for her leadership role over several years in our chapter’s executive board and significant contributions to the advancement of our chapter. She was a past chair and more recently the treasurer of the chapter. “Goodbye” as she has moved from Thornhill area to Oakville, and has left our chapter.

Vimbai, we will more formally recognize your contributions to our chapter at the next opportunity when you visit us. We miss you and wish you all the best in your engineering career and continuing volunteer work with PEO.

Guidelines to publishing articles at “The Chronicle”:

Word limit of 1000 words. About 300-500 words could be a full page article, 50-100 words could be a section of the page, less than 50 may be in a form of a banner or text box.

The newsletter is meant to be a portal for the WTPEO chapter and community members. As a P.Eng. volunteering with the chapter, almost anything you write may be applicable to the newsletter.

For additional guidelines on publishing in “The Chronicle”:

Contact: Hamdy Elarabi, publication@wtpeo.org

Premier and over 40 MPPs Celebrate PEO's 95th Anniversary at Queen's Park Reception.

—By Fred Saghezchi, P.Eng.



Fred Saghezchi, WTPEO GLP Chair with Premier Kathleen Wynne at Queen's Park reception.

The 2017 PEO Queen's Park MPP Reception on October 4 was a great success! Almost 200 engineers and MPPs celebrated PEO's 95th anniversary, including Premier Kathleen Wynne, MPP (Don Valley West), and over 40 ministers and MPPs.

PEO President Bob Dony, P.Eng. welcomed everyone to the reception and spoke about the importance of the GLP and chapter involvement in MPP meetings. PEO Government Liaison Committee (GLC) Chair Darla Campbell, P.Eng. emceed the evening. Attorney General and Government House Leader Yasir Naqvi, MPP (Ottawa Centre) addressed the crowd on behalf of the Liberal Caucus. He congratulated PEO on their 95th birthday. He recognized that sometimes engineers and government doesn't always agree, but that they can still work together

Also participating were PEO Registrar Gerard McDonald, P.Eng. and OSPE CEO Sandro Peruzza. Many of the engineers participating were able to speak to their MPPs. As the GLP chair of Willowdale Chapter, I attended this annual gathering in Queen's Park to salute our MPPs and Premier.

Our goal is creating a good relationship with government. It was very productive. I had a chance to explain to our Premier and ministers that thousands of our members are willing to help public and communities. Premier had already been a guest speaker in our previous certificate ceremonies, so she was pleased to meet a representative from Willowdale/Thornhill chapter again.

Highlights on Programs Activities at WTPEO Chapter

—By Shayan Sepiani, P.Eng.

2. Seminar on “*Data Mining and Science for Engineering*”



On October 3rd, 2017, Shelton, P.Eng., PMP presented a seminar about the following topics:

- What are data science, data mining, artificial intelligence (AI) and predicative modeling?
- How is data science impacting engineering work?
- Case study review with a live demonstration on how to mine data for new discoveries

The presentation was held at Thornhill Community Center. More than 75 attendees enjoyed the seminar, free refreshments and light dinner. They shared their thoughts on data mining and science.

Nick is a systems engineer and technical customer development in Canada for JMP, a subsidiary of SAS Institute Inc. As a Lean Six Sigma expert, Nick is very experienced in science. He holds both Bachelors and Masters of Science degrees in electrical engineering from West Virginia University.

1. Seminar on “*Threats to Our Engineering Profession*”



On September 26th, 2017, Marilyn Spink, P.Eng. presented a seminar about the following topics:

- "Project Governance" and why it is critical engineer's voices are heard in high level decision making to successfully execute large complex engineering projects
- Why engineers should always have a broad mindset of the definition of "public interest".
- Clarification of the roles of PEO and OSPE and why having these distinct separate organizations is beneficial to our engineering profession.
- What we, as engaged engineers, can do to evolve our profession, focusing on our regulatory mandate, so we can remain a strong relevant, self-regulated profession.

The presentation was held at Thornhill Community Center. More than 45 attendees enjoyed the seminar, free refreshments and light dinner. The session gave an opportunity to network and shares their thoughts on engineering profession.

Highlights on Programs Activities at WTPEO Chapter, CONT'D

4. Seminar on *“Advanced Composite Material and FRP”*



The presentation was held on August 22nd, 2017 at Thornhill Community Center. More than 50 attendees took part in the seminar.

Faizul Mohee, talked about innovative material for multidisciplinary engineering applications. He presented different types of advanced composite materials (e.g. carbon FRP, glass FRP, basalt FRP, FRP rods, FRP plates, FRP sheets, FRP stirrups) and discussed the applications of these materials in different engineering (e.g. civil, mechanical, aerospace, biomedical, naval) applications. Mohee also presented the development, analysis and experimental investigation of three innovative, easy-to-install, low cost, epoxy-free, mechanical, friction-based, compact, high-strength, pre-stressing anchors for CFRP plates. The novel CFRP plate anchors were designed and analyzed by means of: 3-D printing, experimental friction tests, finite element numerical modeling using ABAQUS and ANSYS software, mathematics-based analytical modeling, and experimental investigations of the anchor prototypes.

Faizul Mohee, works for Terrestrial Energy in Oakville, HATCH, WSP, Energy Solutions and Power Grid. He received his Ph.D. at University of Waterloo in Civil Engineering (major in Structural/ Materials).

3. Seminar on *“Managing Engineering Projects with work Packages”*



The presentation was held on May 31st, 2017 at Thornhill Community Center. More than 55 people attended to the seminar.

Andrew Herbst, P.Eng., PE, PEM described the advantages of applying the method to the preliminary and detailed engineering phases of projects. This method can lead to better “project success” when the success criteria are: requirements (no errors or omissions). Herbst also reviewed motivation theory, coordination theory, human error theory, catastrophe theory, small group theory, and the nature of engineering consulting firms.

Andrew Herbst, P.Eng., PE, PEM is an independent project engineering management consultant. He has over thirty years of experience in the design, project management, engineering management, construction, commissioning, and operation and maintenance of heavy industrial facilities. He attended Carleton University in Ottawa and received a bachelor’s degree in civil engineering and a master’s degree in mechanical engineering.

Ontario Science Minister Speaks at WTPEO Chapter Licence Ceremony



Research, Innovation and Science Minister **Reza Moridi**, MPP (Richmond Hill) (in centre), from left to right, Fred Saghezchi, P.Eng. GLP Chair of WTPEO Thomas Chong, P.Eng. Noubar Takessian, P.Eng.; PEO East Central Region Councillors Nick Shelton, P.Eng. WTPEO Chair.

On July 7, 2017, Research, Innovation and Science Minister **Reza Moridi**, MPP (Richmond Hill), was the guest speaker at the PEO Willowdale-Thornhill Chapter licence presentation ceremony in Thornhill.

Minister Moridi spoke about his engineering background as a chartered engineer in the United Kingdom, and how important engineering is to daily life and public policy. The Minister helped hand out licences to 28 newly licensed engineers who were in attendance.

PEO-2017 Engineering Scholarship for High School Students

—By **Rana Tehrani Yekta**, P.Eng.

Willowdale-Thornhill Chapter is committed to support high school students who gain admittance to an engineering program at university level in September of each year. This year after an intense evaluation, three outstanding students won. The total amount of the scholarship is \$3,500. The scholarships were awarded to first, second and third place in the amount of \$2,000, \$1,000 and \$500 accordingly. Congrats to Kelly, Zachary and Jasmine for making us proud!

First Name	Last Name	School Name	Rank
Kelly	Yuan	St. Robert Catholic High School	First Place (\$2000)
Zachary	Teper	Northview Heights Secondary School	Second Place (\$1000)
Jasmine	Ou	William Lyon Mackenzi Collegiate Institute	Third Place (\$500)

Community Portal

Everybody has a story to tell. Living in the Willowdale-Thornhill area is a wonderful opportunity to encounter many adventures. These adventures include anything from swinging a club at the Thornhill Golf and Country Club to figuring out what the new Highway 7 transportation route will have to offer. Do you have a story or opinion to share?

If so, send us an email to publication@wtpeo.org.

Let us know what you think and your opinion may be published in the next issue of *The Chronicle*!

If you also have any pictures, videos, poems, or fun facts you would like to share with our audience, it would be nice to hear from you!



Willowdale-Thornhill PEO boundary Map per General R. R. O. 1990, Reg. 941

BE PART OF THE FUN!

Log onto www.wtpeo.org and find out how you can volunteer with the WTPEO Chapter. We are always looking to expand our team!

Send an email to chair@wtpeo.org saying how you would like to contribute. Chapter board meetings are at 5:30 p.m. on second Tuesdays of every month.

NOT RECEIVING EMAILS FROM THE WTPEO CHAPTER?

You need to be a registered professional engineer (P.Eng.) or engineering intern (EIT) with PEO and reside in the Willowdale/Thornhill area (see map). If you are still not receiving our e-mails, please fill in the form on the "Contact Us" page of the PEO website: <http://peo.on.ca/>.



How to Reach the Fantastic Board Members of the WTPEO Chapter:

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BOARD MEETINGS AT 5:30PM ON SECOND TUESDAYS OF EVERY MONTH

EMAIL CHAIR@WTPEO.ORG TO ATTEND



The Chronicle

OFFICIAL WILLOWDALE/THORNHILL PEO CHAPTER NEWSLETTER

2018 Media Kit

ADVERTISING RATE STRUCTURE

The publisher reserves the right to change these rates at any time. Existing contract rates are guaranteed only for the next four issues from the date of acceptance of contract.

Colour	Once (1X)	Full Year (4X)
Full Page	\$400	\$1,400
1/2 Page	\$200	\$700
1/4 Page	\$100	\$350
Business Card	\$25	\$80

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Mixed Units: advertisers in multiple newsletter issues may vary their material subject to deadlines.

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Issue	Material Due	Distribution
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Spring 2018	Apr. 24, 2018	May 22, 2018
Summer 2018	July 24, 2018	Aug. 21, 2018
Fall 2018	Oct. 23, 2018	Nov. 20, 2018

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