



Professional Engineers  
Ontario

# chapternews

» » WINTER 2014 | MISSISSAUGA CHAPTER

**IN THIS ISSUE:** »» MESSAGE FROM THE CHAIR »» SAVE A TREE »» CHAPTER BOARD »» COMMUNICATIONS  
»» PAST EVENTS »» FUTURE EVENTS »»

This edition of the Mississauga Chapter Newsletter contains important information about the AGM. All members are invited to register and participate in the administration of Mississauga Chapter.

## Message from the Chair

Fellow Engineers,

I am three quarters through my year as chair of the Mississauga Chapter, Professional Engineers Ontario. It is a great privilege as well as responsibility. Even though it is not simple, I do my best representing PEO – Mississauga Chapter with pride and dignity.

December is here, I wish you and your loved ones Merry Christmas and happy holidays! May you have peace and happiness this holiday season and throughout the entire new year!

Mississauga Chapter delivered yet another busy year full of events. Here are some of them:

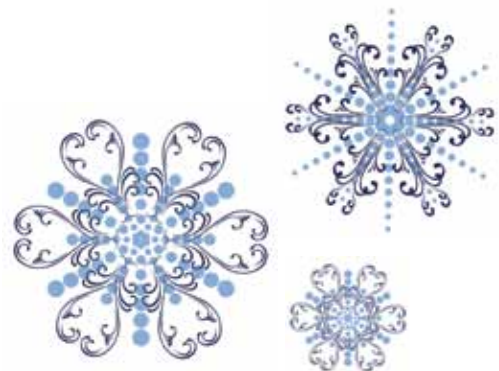
- Annual General Meeting (February 6, 2013)
- Bridge Building Challenge (March 2, 2013)
- Mathletics Challenge (March 24 and November 16, 2013)
- Spring and Fall Licence Presentation Ceremonies (June 3 and November 11, 2013)
- Volunteer Appreciation Night (June 17, 2013)
- Annual Summer Picnic (July 6, 2013)
- “Engineers as Politicians” Conference (October 26, 2013)
- Town hall “Transportation” (November 4, 2013)

I would like to say thank you to the executive board of the Mississauga Chapter and to all professional engineers (and engineers to be) who came out to help.

As usual, the line of communication is open. Please call me at 416.897.1069 or drop me a message at [art.kirnichansky@peo-mc.ca](mailto:art.kirnichansky@peo-mc.ca). Feel free to connect to me over LinkedIn.

Merry Christmas and safe holidays!

*Yours in engineering,  
Art Kirnichansky, P.Eng.  
Chair*



# Save a tree

In the last issue, we asked you to **help us to save a tree**.

And you did respond!

We have gathered 27 email messages asking us to switch members' newsletter subscriptions from paper to electronic.

Twenty-seven electronic subscriptions will save a tree over several years!

Yet again, we encourage those who receive a paper copy of the newsletter to subscribe for an electronic copy.

You can do that by going to the PEO website and logging in

to the Licence Holder Services section (<http://bit.ly/SR2Jbc>), and providing your email address under the "Address" section.

Please feel free to contact me if you need additional instructions.

*Art Kirnichansky  
Chapter Chair*

# Chapter Board

Art Kirnichansky, P.Eng.	Chair
Amr Kaoud, P.Eng.	Vice-chair
Khaled El-Rahi, P.Eng.	Past-Chair, GLP Committee Chair
Jana Havard, P.Eng.	Treasurer
Matthew Wong, P.Eng.	Secretary, Communication Committee Chair
Fawad Mehmud, EIT	Education Committee Chair
Rishi Kumar, P.Eng.	Mentoring Committee Chair and Privacy Officer
Phil Maka, P.Eng.	Newsletter Co-editor
Galal Abdelmessih, P.Eng.	Engineers in Training Committee Chair
Brett Chmiel, P.Eng.	Licence Presentation Committee Chair
Lisa MacCumber, P.Eng.	Environmental Committee Chair
Pappur Shankar, P.Eng.	Award and Nomination Committee Chair
Colin Moore, P.Eng.	Newsletter Co-editor
Katherine Diep, EIT	Women in Engineering Chair
Harsharan Hujan, EIT	Education Committee Vice-chair
Jordan DeMello, EIT	Communication Committee

Email addresses are available on the website. Chapter website, [www.peo-mc.ca](http://www.peo-mc.ca).



## Communications

We are your voice! The PEO Mississauga Chapter is committed to be the communication agent between PEO council and you; but to do so we need your help—we need your feedback. Tell us what you want from PEO and your chapter, and WE WILL ACT ON IT.

“How do I reach you?” I heard you ask. The answer is only nine characters long: [peo-mc.ca](http://peo-mc.ca)

Come to our webpage at [peo-mc.ca](http://peo-mc.ca) and you will find everything you need to know, such as:

- Who we are,
  - How many committees we have,
  - Picture gallery of our past events,
  - Information on upcoming events, and
  - Much more.
- To save you the time...

You can email us at [support@peo-mc.ca](mailto:support@peo-mc.ca).

You can tweet us at [@peomc](https://twitter.com/peomc) (where you will get news from other local chapters, such as Brampton, as well).

You can write to us via our PEO Mississauga LinkedIn group.

In 2014, we will have our Facebook page ready for you. Stay tuned!

However, the most effective way to communicate with us is to come to our events and talk to us in person! No technology can replace that.

Can't wait to hear from you!

*Matthew Wong, P.Eng.  
Chair,*

*PEO Mississauga Chapter Communication Committee*

## Past Events

Your chapter board supported by a team of volunteers continues to support both our community and the profession by arranging a variety of activities. The events that took place during the fall are described below.



## Woman in Engineering and the Additive Manufacturing event

On October 29, 2013, the WIE Committee at Mississauga Chapter held a seminar on “Building Innovation One Layer at A Time, The Additive Manufacturing Advantage” at Carmen Corbasson Community Centre. About 17 members and one executive member attended. The presentation began with Katherine Diep introducing Eugene Levin, EIT, from Proto3000 Inc. Eugene talked about rapid technologies and additive manufacturing being at the forefront of manufacturing and product development growth in North America. With these technologies and processes being used to conceive, develop, test, improve and manufacture prototypes and new products, there is a clear advantage in bringing innovations to market faster and more cost effectively. As materials and machines become more affordable, portable and readily available to the public, adoption of the technology will be more widespread, leading to further developments in material selec-

tion and process efficiency. The transition from traditional to digital methods has already produced countless engineering and manufacturing applications.

Eugene also presented the four techniques currently used in manufacturing. They are fused deposition modeling (FMD), selective laser sintering (SLS), stereolithography (SLA), and direct metal laser sintering (DMLS). On each technique, Eugene talked about the advantage and disadvantage, as well as application and equipment requirements.

The presentation ended with questions and answers, and a demonstration of products.

The event ended with networking.

*Prepared by:  
Katherine Diep EIT*



## PEO Mississauga Chapter Presents the Transportation Town Hall

As one of the most successful events in the area’s recent memory, the PEO Mississauga Chapter was proud to host the Transportation Town Hall at the Noel Ryan Auditorium on Monday, November 4, 2013. A hot-button topic in its own right, the series drew the attention of several notable panellists, including Chris Hill, President and CEO of Electric Mobility Canada; Greg Percy, President Incumbent at GO Transit; and Martin Powell, Commissioner of Transportation and Works for the City of Mississauga. Linda Weichel, VP of the group CivicAction, and Adam Giambone, Executive Transit Advisor for the City of Milwaukee, rounded out the panel, the latter of whom came straight from the airport after an 18-hour

flight to attend. David Lapp, P.Eng., Manager, Professional Practice at Engineers Canada, was the MC for the event, and fielded a variety of questions to the panel, dealing with all aspects of transportation, from relieving congestion during rush hour traffic times to the possibility of futuristic, self-actuated, “automatous” vehicles. In addition, Mayor Hazel McCallion provided an impromptu keynote address to the audience, noting that she had just returned from a meeting at Queen’s Park, with a commute time of almost two hours, a blunt yet truly disappointing reality when travelling within the GTA. As the mayor pointed out: “The GTA is the economic champ in Canada, and if we don’t get our [transporta-

tion] infrastructure in good order we will not be a success". After several prepared questions were asked of the panel, the floor was opened up to the audience; a group of more than 230 registered engineers and professionals. Mr. Powell ultimately summarized the seminar most succinctly, quipping that the main goal was to "move people, instead of just vehicles". All in all, the event was well-attended and participants left the hall with a better understanding of the current

practices and practical issues involved in our transportation network. The Mississauga Chapter comprises over 6000 professional engineers in Mississauga and looks forward to similar support at its subsequent town halls and seminars.

*Prepared by:  
Jordan DeMello, EIT*

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### **Mathletics Challenge - Fall 2013**

The Mathletic challenges have been conducted for the last six years by the Mississauga Chapter. They are math competitions aimed at middle school students in the format of a quiz that asks questions revolving around math, physics and engineering. It aims to:

- promote engineering among middle school students;
- help students understand engineering as it applies to real life practical problems; and
- create an interest in math and problem solving.

#### **Summary**

The competition was conducted for two levels:

Junior level for grade 6;

Senior level for grades 7 and 8.

Over 120 students attended the event. The two levels were divided into morning and afternoon sections, with opening comments made by the Mississauga Chapter Chair and the

principal of Tomken Road Middle School, this year's venue. Lunch was provided to all attendees.

Participation certificates were provided to all students. The winners received medals, certificates and gift cards in recognition of their achievement. We received positive feedback from the students, teachers and parents with high interest in repeat participation.

The PEO Mississauga Chapter would like to thank the students, parents, teachers and Tomken Road Middle School for their support. In addition, the organizing committee would like to thank Matthew Wong, P.Eng., Radwa Rawoof, Sukaina Chandoo, Art Kirnichansky, P.Eng., Jordan DeMello, EIT, Jana Havard, P.Eng., Ismail Rawoof, Juwairia Obaid, EIT, Numaira Obaid, Suhad (Sam) Ateia and Saira Obaid for all helping to make this event a resounding success.

*Prepared by:  
Harsharan Hujan, P.Eng.  
Education Committee Vice-Chair*



## Workplace Relationships and the “Reptilian Brain”

**Date:** October 23, 2013 @ 6:30 p.m.-9:00 p.m.

**Location:** Classroom 3, Mississauga Central Library

**Speaker:** Bruce van Ryn-Bocking, MD, MBA

Mississauga Chapter hosted a two-hour speaking event on the Reptilian Brain at Work. Reptilian Brain, or the Brain Stem, is part of the human brain that is responsible for essential processes such as breathing, as well as survival, territorial behaviour and environment scan. This subject raised exceptional interest amongst engineers, as all 100 seats were registered in a matter of hours. We had great expectation for this event, and the speaker did deliver. Bruce van Ryn-Bocking, who is a Medical Doctor also holding an MBA degree from Laurier University, did an excellent job covering the subject. His

presentation was relevant, at times humorous and very engaging for the audience. About 70 engineers were in attendance, and they learned something new about the human brain and human behaviour. Bruce answered questions from the audience – and there were many. The feedback from attendees was overwhelming, which makes us consider inviting Bruce van Ryn-Bocking again. The PDF copy of the presentation, kindly provided by Bruce, is available on the chapter’s website (archive section).

*Prepared by:  
Art Kirnichansky, P.Eng.  
Chapter Chair*

## Engineers as Politicians

This year’s iteration of the “Engineers As…” seminar series was no exception to the trend and continued to exemplify the high expectations of the chapter. Entitled “Engineers as Politicians”, and organized by Khaled El-Rahi, the event took place on Saturday, October 26, 2013 at the Coptic Church on Eglinton Ave. This time, connections were made throughout all levels of government. MPs, MPPs, and city councillors were all challenged to describe the ways that engineering as a profession could augment the political landscape of Canada. Advice was largely unanimous in maintaining that the key factor was to stay informed, with two-thirds of attendees stating their intent to maintain the involvement in politics, or to become more involved in subsequent elections. MPs Brad Butt and Corneliu Chisu, P.Eng., lauded the chapter for its efforts, and with PEO representatives from West Toronto Chapter and head office on hand, promised to convey our profession’s best interests to the leaders of our country. The success of the event, as monitored by a subsequent exit survey, was again largely positive, with 95 per cent of registrants once again showing their intent to return to the seminar series next year. A more pleasing statistic was our representation of young engineers at the session—a full one-third being below the age



of 25. A big thanks goes out to the Committee Chair and organizing committee for the event, namely Juwairia Obaid, EIT, Saira Obaid, Harsharan (Jeff) Hujan, P.Eng., Suhad (Sam) Ateia, EIT, and Jordan DeMello, EIT.

*Prepared by:  
Jordan DeMello, EIT*

## Fall Licence Presentation Ceremony

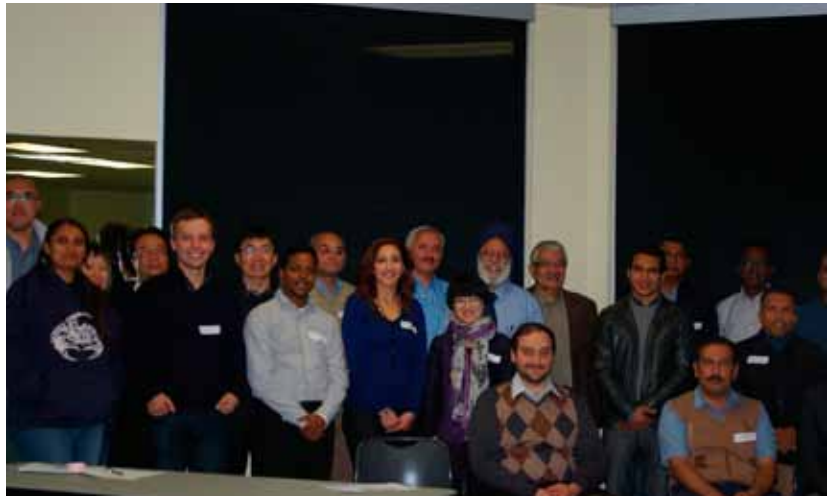
The Mississauga Chapter Licence Ceremony Presentation Committee welcomed 63 new members to the profession at a prestigious ceremony held on November 11, 2013 at the Credit Valley Golf Club. Guest speakers included Michael Winters, Senior VP, Hydro One, who gave the keynote address; Mississauga Councillor Ron Starr, P.Eng.; PEO West Central Regional Councillor Rob Willson, P.Eng.; and PEO President Annette Bergeron, P.Eng. Rogers Cable 10 Mississauga was present to mark the occasion.

*Prepared by:  
Phil Maka, P.Eng., FE*



## EIT Committee Fall Event

On November 5, 2013, the PEO Mississauga Chapter EIT Committee held a presentation for registered EITs, as well as for the rest of our chapter members. The keynote speaker was Dr. Mohinder Grover, PhD, P.Eng., a very active PEO volunteer as a member of the Experience Requirements Committee (ERC) and the recipient of the remarkable Engineers Canada Meritorious Service Award for Community Service (2013), the International Electrotechnical (EIC) Commission's 1906 Award (2012), the Ontario Medal for Good Citizenship, and the ARCL Distinguished Merit Award. The event was well attended by 36 EITs and P.Engs. Dr. Grover spoke about the rewards of volunteering for local and international organizations and discussed with the participants the definition and application of "Quality Engineering".



*Prepared by:  
Galal Adelmessih P.Eng.*

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## Region of Peel Hanlan Water Project

**Date:** Wednesday December 4, 2013

**Location:** Tomken Twin Rinks Auditorium, Mississauga

**Speaker:** Anthony Parente, P.Eng.

The Hanlan Water Project is the largest and most extensive watermain initiative the Region of Peel has ever designed and constructed. When it's completed, the Hanlan Water Project will:

- move 400 million litres of water each day through the Hanlan Feedermain; and
  - move 120 million litres of water each day through the Mississauga City Centre Subtransmission Watermain.
- That's enough water to fill 408 Olympic swimming pools every single day!

The project includes installing the 8-foot-diameter Hanlan Feedermain and 5-foot-diameter Mississauga City Centre Subtransmission Watermain. Anthony Parente, P.Eng., described the technical challenges of the \$600-million project to 76 participants. A lively discussion followed the poster session and presentation.



*Prepared by:  
Phil Maka, P.Eng., FEC*

# Future Events

## Annual General Meeting – Monday, February 10, 2014

The Mississauga Chapter Annual General Meeting will take place from 6:30 p.m. to 9:30 p.m. at the Credit Valley Golf and Country Club, 2500 Old Carriage Road, Mississauga.

### Agenda

- Introduction of Executive and Guests
- Greetings from West Central Regional Councillors
- Guest speaker Annette Bergeron, P.Eng., PEO President
- Approval of Minutes from the 2013 Annual General Meeting
- Business arising from the Minutes
- Report of the PEO Mississauga Chapter Chair
- Treasurer's Report for Fiscal Year Ending December 31, 2013
- Committee Reports (Education, Environmental, Awards, Licence Presentation, Communications, Mentoring, EIT.)
- Appointment of Scrutineers
- Election of the 2014 Board
- Appointment of the Auditor

Come and meet your Chapter Board. This is an excellent opportunity to get involved in our activities for next year. You can share your ideas and vision for the chapter with our Board as they begin their new mandate.

Light refreshments will be served.

Nominations may be made by the chapter membership in accordance with the Chapter By-Law, Article 4, Part 6, using the nomination form accessible on the chapter's website [www.peo-mc.ca](http://www.peo-mc.ca). The nomination form must bear the names and signatures of the two nominators and the nominee signifying his/her acceptance of the nomination. The nominators and nominees must be in good standing with PEO and members of the Chapter. Board terms of office are one year in duration. The Nomination Committee Chair (Amr Kaoud, P.Eng.) must receive nominations at least two weeks before the Chapter AGM (by January 27, 2014). Please scan and submit the signed nomination form to: [amr.kaoud@peo-mc.ca](mailto:amr.kaoud@peo-mc.ca).

Please make sure to bring the original copy of the signed nomination form to the AGM.

*Organized by:  
Amr Kaoud, P.Eng. Vice-Chair*

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## Licensing Assistance Program (LAP) PEO Mississauga Chapter

Members of the public rely on Professional Engineers Ontario (PEO) to ensure that the licensed body of professional engineers in Ontario meets high standards of qualification, ethical practice and professional conduct. Formally arranging for an engineering intern – EIT (Canadian graduates and internationally trained engineers) to receive guidance and support from an experienced, licensed professional engineer will help this mandate. Licensing Assistance Program (LAP)-PEO Mississauga Chapter is a means to perpetuate the high standards and raise the profile of the profession. The following time-line provides the summary of our processes:

**February/March:** Announcement through the chapter's website to our members requesting interested engineering interns (EITs) and experienced professionals willing to help EITs in various disciplines to complete an on-line application (LAP Portal on PEO website).

**April/May:** Licensing Assistance Program (LAP) Committee compiles all requests and reviews requirements and completes the matching process.

**May/June:** Licensing Assistance Programme (LAP) contacts EITs (mentees) and corresponding experienced professionals (guides) and finalize the matching process

**June/July:** Licensing Assistance Program (LAP) Committee in collaboration with LAP Co-ordinator from PEO head office, organizes and conducts a training session for the EITs and guides.

**July/December:** EITs and their counterpart experienced professional engineer guides meet once/twice a month at a location convenient to both. LAP maintains a close contact and supports EITs and guides as needed.

**December:** Licensing Assistance Program (LAP) Committee in conjunction with LAP Co-ordinator PEO organizes an "Appreciation Event" to close out the present round of matching sessions.

*Prepared by:  
Rishi Kumar, P.Eng.  
LAP Committee chair*



### **Bridge Building Challenge (BBC)**

- **Subject:** Bridge Building Challenge (BBC)
- **Place:** Tomken Middle School, Mississauga
- **Expected Attendees:** 150 participants
- **Date:** March 2014

The Education Committee will organize the seventh Annual Bridge Building Challenge – BBC – in March 2014, in collaboration with the Peel District School Board. The event will be held at Tomken Road Middle School in Mississauga. The BBC falls during the course of National Engineering Month and is designed to raise awareness of the engineering profession and to encourage students to think practically and develop hands-on skills through bridge construction. The students will form teams that will work together at home to build the bridge from the kit provided and will attend the challenge ready for evaluation and testing. The event will be open for grades 7 and 8 students to participate.

Contact: Harsharan Hujan, P.Eng., Education Committee Vice-Chair, for further information.

### **Mathletics Challenge Spring 2014**

- **Subject:** Mathletics Challenge
- **Place:** Tomken School
- **Expected Attendees:** 200 300 participants
- **Date:** May 2014

Due to high demand for the Mathletics Challenge within middle schools in Mississauga, the Education Committee will expand participation to 300 students next year.

Contact: Harsharan Hujan, P.Eng., Education Committee Vice-Chair, for further information.

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### **Engineers as Managers: Part II**

Drawing again on our past success, a major event of the upcoming year will be the “Engineers as Managers: Part II” Conference. Scheduled for early spring 2014, the event will enhance engineering management awareness among a focus group of engineering professionals. Attendance is expected to be around 300, and knowledgeable speakers with varying degrees of expertise in management will be on hand to provide insight and relevant experience. March 2014, Canadian Coptic Centre, ticket pricing and schedule to follow.

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### **Air Quality Permitting in Ontario**

An event on Air Quality Permitting in Ontario is under development and will be presented by Ortech Consulting this winter.



### **Additional Future Events Under Development**

The following events are under development. Please stay tuned to the chapter website for more information.

- Technical Presentation on Water Fluoridation
- EIT Event

Details of all future events will be given on the chapter website and by email blasts.