



Professional Engineers
Ontario

chapternews

» » Winter 2013 | MISSISSAUGA CHAPTER

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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.

Chair's Message

Hello members of Mississauga Chapter,
First, I would like to start by wishing you and your loved ones happy holidays and a very prosperous New Year. *Professional Engineers Ontario (PEO)*, is the over 75,000-member organization that licences and sets standards of practice for professional engineering in Ontario to serve and protect the public. The **Mississauga Chapter** is currently the third largest among the 36 local chapters, with over 6,000 members. This chapter is managed by an Chapter Board Committee comprising five Officers and up to 17 Executive members and operates under the authority of the *Professional Engineers Act* and is governed by the Chapter Mandate.

On February 6, 2013, the PEO Mississauga Chapter will have its Annual General Meeting and 17 new members of the Chapter Board will be elected. At that time, it will be the end of my second year as Chair of this chapter, and the 17 new members will elect from among themselves five new Officers, including the Chair, Vice Chair, Secretary and Treasurer; the immediate Past-chair will be an Officer ex-officio. It is truly an honour for me to have served as Chair the PEO Mississauga Chapter and worked with my respected colleagues to contribute to the engineering profession and to our community in the past two years. I would like to take this opportunity to sincerely thank all the Executive members of this chapter for their dedication, professionalism and valued time invested in numerous activities held at this chapter this year. The enthusiastic members and volunteers, who planned, organized and

executed numerous valuable activities to promote the engineering profession are to be commended. Some of these activities included town hall meetings and seminars on current engineering topics, tours of interesting engineering plants, bridge building and mathematics challenges for school students, a mentorship program to assist in obtaining the P.Eng. licence, government liaison program to influence government engineering policies, and forums for women in engineering, engineering interns and much more.

The year 2013 promises to be a very busy year for the Mississauga Chapter and I would strongly invite you to attend our events and join our volunteer program. We are always looking for additional volunteers, ideas, and suggestions from our colleagues. Who better to promote our profession other than you, the practitioners? If you would like to volunteer or attend any of our events, or have suggestions or comments, please visit our website at www.peo-mc.ca.

I look forward to the continued success of this chapter and to continuing to work with our dynamic team, the members of the Chapter Board and the volunteers of his chapter.

*Khaled El-Rahi, P.Eng.
Chapter Chair*



Chapter Board

Khaled El-Rahi, P.Eng.	Chair
Art Kirnichansky, P.Eng.	Vice-chair, Communication Committee Chair
Pappur Shankar, P.Eng.	Past-Chair, Award and Nomination Committee Chair
Jana Havard, P.Eng.	Treasurer
Lisa MacCumber, P.Eng.	Secretary, Women In Engineering Chair
Amr Kaoud, P.Eng.	Education Committee Chair
Danny Ciasullo, EIT	Education Committee Chair
Rishi Kumar, P.Eng.	Mentoring Committee Chair
Phil Maka, P.Eng.	GLP Committee Chair, Newsletter Editor
Galal Abdelmessih, P.Eng.	Engineers in Training Committee Chair
Brett Chmiel, P.Eng.	Licence Presentation Committee Chair
Katherine Diep, EIT	Environmental Committee Chair
Mirko Manojlovic, P.Eng.	Privacy Officer
Mark Zimny, P.Eng.	Executive Member
Colin Moore, P.Eng.	Executive Member
Fawad Mehmud, EIT	GLP Committee Member

Email addresses are available on the website. Chapter website, www.peo-mc.ca.

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 this summer and fall are described below.

Mississauga Chapter Annual Picnic–2012

PEO Mississauga Chapter organized and held its Annual Picnic event on Saturday, June 9, 2012 at Huron Park, Mississauga. It was a very successful event, as the turnout was more than what was expected and exceeded the registration list despite the inclement weather. There were 144 engineers and family members registered on line, but 160 people showed up for the picnic. Among the attendees were Ron Starr, P.Eng., City Councillor; Danny Chui, P.Eng., Junior West Central Region Councillor; Jeannette Chau, P.Eng., PEO Manager, Student and Government Liaison Programs; and many Mississauga Chapter Board members. All attendees enjoyed a variety of food, such as beef, chicken and veggie burgers, hot dogs and s. There were raffle draws and prizes for four, \$25 gift certificates for adults, many prizes for kids and PEO Mississauga tee-shirts for all. Many of the engineers and family members also participated in sports activities like volley ball and soccer games, as well as networking with colleagues.

This picnic event required numerous hours of planning, organization and execution. That would not be possible without the superb effort and dedication of PEO

Mississauga Chapter Executives and volunteers. On behalf of the Mississauga Chapter, I would like to particularly thank Fawad Mehmud, Lisa MacCumber, Art Kirnichansky, Pappur Shankar, Mirko Manojlovic and Zeina Trad for their valued time invested to make this event a success.

*Khaled El-Rahi, P.Eng.
Chair, Mississauga Chapter*

Women in Engineering Committee Event. Royal Botanical Gardens Tour

On June 28, 2012, the Women in Engineering Committee sponsored a lunch and tour of the Royal Botanical Gardens. There were 40 members and their guests in attendance.

Following a networking lunch at the Royal Botanical Garden Centre, tour guides brought the group to the Rock Gardens and then the Rose Gardens/Hendrie Park Gardens.

The Rock Garden was built in 1930-1931 on the site of an abandoned gravel pit, and the 2.43-hectare (6-acre) site was RBG's first major display garden. Before its transformation, the surrounding area was littered with billboards and old shacks. As part of a make-work beautification project during the Depression, tons of weathered limestone rock were brought in from nearby quarries to create the garden's structure and its charming, irregular network of staircases, linked ponds, bridges, and waterfalls. Many years later, the rocks look as though they've been in place forever.

Following the tour of the Rock Garden, the group returned to the Rose Gardens/Hendrie Park, where the roses were in full bloom. This garden illustrates the diversity of



both plants and garden design. Native plants are plentiful in a cultivated setting, and there is a large vegetable garden, medicinal garden and a dark water reflecting pond.

Further information on the Royal Botanical Gardens is available at www.rbg.ca.

Lisa MacCumber, P.Eng.

EIT Event on Job Market Prospects and Trends in Canada



The EIT Committee organized an EIT event on September 5, 2012 from 7:00 p.m. to 9:30 p.m. at the Trinity Hall, Canadian Coptic Centre, 1245 Eglinton Avenue West to get the chapter's registered EITs engaged and involved in planning future activities. The event included a presentation by chapter EIT Committee Chair Galal Abdelmessih, P.Eng., PMP, on the engineering job market prospective and trends in Canada (by discipline and province) for the period 2010 to 2018, based on the published report by Engineers Canada.

Event Summary

The event was a free event, attended by 31 EITs and three board members. The committee Chair facilitated a workshop to brainstorm ideas for future EIT events and to get the EITs involved. By the end of the workshop, eight EITs volunteered to sit on the committee.

Galal Abdelmessih, P.Eng

Tour of the Mid-Halton Waste Water Treatment Plant

On September 19, 2012, the Environment Committee sponsored a tour of the Mid-Halton Wastewater Treatment plant for 30 chapter members.

The Mid-Halton wastewater treatment plant is one of seven treatment plants in Halton. Design work is underway for a future plant expansion. The plant runs 24 hours a day, seven days a week. Employees from Halton Region are available on site during the day, and after hours alarms can be investigated remotely through a SCADA system.

Sewage is carried from homes and businesses through the collection system to the treatment plant. Large inorganic solids are screened out and separated from the liquids and primary clarifiers help to settle the remaining solids. The

solids are removed from the clarifiers and heated, digested and removed as biosolids. The remaining liquid is sent to an aeration basin where the dissolved organic matter is consumed by microorganisms. The remaining solids will settle and be removed in the final clarifiers. Phosphorus is removed by adding chemicals. The treated water is tested in the plant's laboratory to ensure it meets all of the regulatory requirements. The final effluent is discharged into Lake Ontario.

The Environment Committee would like to thank all of the Halton employees who stayed late to conduct the tour. It was very informative for all of the attendees.

Lisa MacCumber, P.Eng.

Engineers as Entrepreneurs—October 27, 2012



PEO Mississauga Chapter hosted a one-day conference, entitled "Engineers as Entrepreneurs", which proved to be a stirring success. An entrepreneurial brainchild of Pappur Shankar, P.Eng., the summit was the second of its kind to emerge from the Mississauga Chapter, on the heels of its spiritual predecessor, "Engineers as Managers". The event was aimed at engineers, new and old, and attempted to divulge

the knowledge, inspiration and drive necessary to become successful in small businesses and corporations.

Endorsed by the province of Ontario, and further lauded via a personal appearance by Bob Delaney, MPP, Mississauga-Streetsville, the conference attracted some 150 attendees from across the GTA. From Som Seif's enlightening keynote speech on the founding of Claymore Investments to J.P. Copeland's interactive audience participation demonstration, the day's events were found to be both explicative and entertaining.

Thanks to the efforts of guest moderator Gary Williams P.Eng., the audience was able to ask pressing questions of the business moguls. Panellists included Dr. Joseph C. Paradi, P.Eng., professor emeritus, University of Toronto; Suneet Singh Tuli, founder of DataWind Limited; and Sandra Murre, P.Eng., CEO of Jordan Engineering Inc. Attendees were also encouraged to partake in up to three out of six concurrent seminars in the afternoon, with themes ranging from "How to Start Your Business", with Monica Goyal, to "Legal Aspects of Entrepreneurial Endeavours", with Hussein Hamdani. Other speakers were on hand in marketing, government regulations and finance, who were more than willing to advise, answer questions, and network with budding entrepreneurs.

Based on an exit survey, attendees were pleased with the variety and quality of information provided, with more than 97 per cent responding that they would certainly become patrons of similar events run by the chapter. In addition, a significant proportion of audience members stated that they were under 30 years of age, a refreshing indication of the chapter's future.

At this opportunity, the conference organizers would like to thank speakers, partners, and Chapter Board members who came out to support the event. Special thanks goes to Brett Chmiel, conference Vice-chair, and the numerous volunteers who, through hard work, dedication and commitment, made the day flourish.

Jordan DeMello, EIT



Education Committee

Mississauga Chapter presented scholarships to the following students who are currently enrolled in an engineering program at an Ontario university.

PEO Mississauga Chapter 2012 PEO Chapter Scholarship Award–Students List

Student Name	High School Graduated From	University/College Attending
Aaron Mok	Streetsville Secondary School	University of Waterloo
Eric Tenuta	Lorne Park Secondary School	McMaster University
Lauren Morse	Clarkson Secondary School	University of Waterloo
Andrew MacCulloch	Streetsville Secondary School	University of Waterloo



Affinity Programs—What’s in it for all PEO members? October 29, 2012

Venue: Mississauga Central Library, Noel Ryan Auditorium, 301 Burnhamthorpe Rd. W., Mississauga, ON

Attendees: 65 people, including PEO Chapter Manager Matthew Ng, P.Eng, FEC

This event was designed to raise awareness of the “little known” services available to professional engineers. From home insurance to medical coverage to retirement planning, attendees discovered the plans and services available to members of Professional Engineers Ontario.

As a Professional Engineers Ontario (PEO) member, you already have access to a variety of insurance and financial services sponsored by Engineers Canada, the umbrella association of all regulators in Canada: The PEO Mississauga Chapter was honoured to host **three specialists**, who provided a closer look into their respective Engineers Canada-sponsored programs, listed below:

- Home and Auto Insurance
- Critical Illness
- Sickness and Accident Insurance
- Term Life and Accident Insurance
- Financial Security

The speakers were:

- 1 - Leo Martins, Great-West Life
- 2 - Lee Ann Thompson, Thompson Financial Services
- 3 - Jorge Cardelus, TD Meloche Monnex.

In addition to their presentations, the speakers addressed many specific questions during an interactive panel discussion. After the presentation and panel discussion, attendees networked with each other and had more questions for the three specialists.

The event was FREE to attend and light refreshments were served.

*Khaled El-Rabi, P.Eng.
Chair, PEO Mississauga Chapter*

Glass Fibre Reinforcement: Changing the Concrete Construction

Industry

PEO Mississauga Chapter, in collaboration with Schock Canada Inc. and in a joint effort with the Chair of PEO Brampton Chapter, held its technical seminar on November 6, 2012 about Glass Reinforced Polymer (GFRP). This event was designed to raise awareness of the FRP reinforcement and its use in the concrete construction industry, and was open to all members of the PEO West Central Chapters.

Three disguised speakers accepted the chapter’s invitation to attend and put forward their presentations about GFRP reinforcement in concrete construction. These speakers were Prof. Shamim Sheik, PhD, U of T; Prof. Khaled Sennah, PhD, Ryerson University, and PhD candidate Dritan Topuzi from Schock Canada Inc.

Their presentations were very extensive and valuable and generated great participation from the attendees through many related questions and answers.

This GFRP technical seminar was a very successful event. There were over 150 engineers and professionals registered

and about 106 attended, despite the inclement weather due to Hurricane Sandy. Many attendees expressed their appreciation and provided positive feedback for this seminar and recommended that the chapter hold similar technical seminars in the future.

This event required hours to plan, organize and execute, and would not have been possible without the great effort and dedication of our volunteer engineers and EITs. Special thanks to Schock Canada Inc. for its great contribution and sponsorship of this event.

*Khaled El-Rabi, P.Eng.
Chair, PEO Mississauga Chapter*

Planned One Day Conference in Late October 2012

The Education Committee organized the fifth Annual Mathematics Challenge, which was held at Tomken Road Middle School on November 10, 2012

Objective of the competition

The Mathematics Challenge has been conducted for the last five years by the Mississauga Chapter. It is a math competition aimed at middle school students and is in the format of a quiz, with 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 planning and coordination process for this event began in September with weekly meetings to organize questions, transition to improved software and testing. Registration was online and through schools; it was open to all students under the Peel District School Board in Mississauga. The competition was conducted for two levels:

- Junior level for grade 6;
- Senior level for grades 7 and 8.

Over 90 students attended the program. The two levels were conducted in a morning and afternoon session, with opening comments by the Mississauga Chapter Chair, and the Principal and Vice-Principal of the school. 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, volunteers, teachers and Tomken Road Middle School for their support to help make this event a resounding success.

The team

The Mathematics Challenge could not have been successfully completed without the efforts of the Board and our volunteers.

- Matthew Wong, P.Eng.
- Radwa Rawoof, B.Eng.
- Shufrah Alam, EIT
- Sukaina Chandoo, B.Eng.
- Jeff Hujan, EIT
- Zainab Rawoof
- Noor El-Rahi
- Khaled El-Rahi, P.Eng.
- Art Kirnichansky, P.Eng.
- Jordan De Mello, EIT
- Taptej Khachh, EIT
- Jana Havard, P.Eng.
- Zeina Trad, P.Eng.
- Ismail Rawoof
- Osama Alam

*Amr Kaoud, P.Eng.
Education Committee Chair*



Fall 2012 Licence Presentation Ceremony

The Mississauga Chapter held the fall Licence Presentation on Monday, December 10th, 2012 at the Credit Valley Golf Club. The keynote speaker was Tony Cesta, P.Eng., Managing Director at HATCH who talked about some of the differences between what you learn in engineering school and what you learn in the engineering profession. PEO West Central Region Councillors Robert Willson, P.Eng. and Danny Chui, P.Eng. were also in attendance and they congratulated the licence recipients. In total, 135 people attended the dinner which included many friends and family of the licence recipients. This activity was arranged by Brett Chmiel with the support of Mississauga Chapter Board members and volunteers.



From left to right: Danny Chui, P.Eng., Thomas Chong, P.Eng., Robert Willson, P.Eng., Sarabjot Anand, P.Eng., Tony Cesta, P.Eng., and Khaled El-Rahi, P.Eng.

Government Liason Program Activities

The Mississauga Chapter GLP Committee continued to dialogue with members of the Ontario Parliament. Both MPPs and Mississauga city councillors participated in chapter events. Art Kirnichansky, P.Eng., and Phil Maka, P.Eng., FEC, attended the PEO Queen's Park Day. This is a successful annual event designed to showcase PEO to members of the legislature and their staff. A total of 36 MPPs and min-

isters representing the three parties participated in the event, which honoured 90 years of regulating the practice of engineering in Ontario.

Phil Maka, P.Eng., FEC

Future Events

2013 Annual General Meeting–Wednesday, February 6, 2013

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.

Please Note: NO BLUE JEANS.

Agenda

- Introduction of Executive and Guests
- Greetings from West Central Regional Councillors Rob Willson, P.Eng., and Danny Chui P.Eng.
- Guest speaker Annette Bergeron, P.Eng., PEO President-elect
- Approval of Minutes from the 2012 Annual General Meeting
- Business arising from the Minutes
- Report of the Chair
- Treasurer's Report for Fiscal Year Ending December 31, 2012
- Committee Reports (Education, Environmental, Awards, Licence Presentation, Communications, Mentoring, EIT)
- Appointment of Scrutineers
- Election of the 2013 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. 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. Board terms of the office are one year in duration. The Nomination Committee Chair (Khaled El-Rahi, P.Eng.) must receive nominations at least two weeks before the Chapter AGM (by January 23, 2013). Please scan and submit the signed nomination form to: khaled.el-rahi@peo-mc.ca.

Do not forget to bring the original copy of the signed nomination form to the AGM. The meeting is being arranged by Art Kirnichansky, P.Eng.

A flyer for this event is attached.

Energy Sustainability in Mississauga

- Subject: Energy Benchmarking, Awareness & Retro-Commissioning Program in the City of Mississauga
- Place: Mississauga Central Library
- February 25, 2013

Please see attached flyer for details.



Bridge Building Challenge (BBC)

- Subject: Bridge Building Challenge (BBC)
- Place: Tomken Middle School, Mississauga
- Expected Attendees: 110 participants
- Date: March 2, 2013

The Education Committee will organize the sixth Annual Bridge Building Challenge–BBC–on March 2, 2013, in collaboration with the Peel District School Board, at Tomken Road Middle School, Mississauga. The BBC will be held during National Engineering Month 2013 and is designed to raise awareness of the engineering profession and encourage students to think practically and develop hands-on skills through bridge construction.

The students will form teams that will work together to build the bridge from the kit provided and come to the day of the challenge ready for evaluating and testing. The event will be open for grades 7 and 8 students to participate.

Contact: Amr Kaoud, P.Eng., Education Committee Chair, for further information.

Mathletics Challenge–Spring 2013

- Subject: Mathletics Challenge
- Place: Olive Grove School
- Expected Attendees: 75 participants
- Date: March 24, 2013

Due to high demand for the Mathletics Challenge within middle schools in Mississauga, the Education Committee has expanded participation to private schools as well as public

schools. In the second year in a row, Mississauga Chapter will conduct the Mathletics Challenge in Olive Grove School in the spring of 2013.

Contact: Amr Kaoud, P.Eng., Education Committee Chair, for further information.

Additional Future Events Under Development

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

- Volunteer Appreciation Night–late January 2013
- Mississauga-wide Mathletics Challenge–February 2013
- Chapter Annual Picnic–July 2013
- Horizontal Directional Drilling, Trenchless Technology–March 2013
- Tour of Toyota Motor Manufacturing Company Cambridge Plant–April 2013

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



**Professional Engineers
Ontario**

ENERGY MANAGEMENT IN THE CITY OF MISSISSAUGA

MONDAY FEBRUARY 25, 2013

6:30 P.M. TO 9:30 P.M.

**MISSISSAUGA CENTRAL LIBRARY, CLASSROOM 3,
301 BURNHAMPTORPE RD., WEST**

A presentation on the City of Mississauga's Award-winning Energy Reduction Program.

Find out how the city of Mississauga:

- Manages energy conservation in city facilities;
- Successfully reduced energy consumption;
- Uses tools to measure energy consumption; and
- Implemented green house gases measuring tools.

SPEAKER: RAJAN BALCHANDANI, P.ENG.

Rajan is a professional engineer and a graduate of IIT Bombay, who has specialized in sustainable energy management in Canada for the past 24 years. He was the vice-president of a Canadian energy services company offering energy efficiency services and a Director on the board of the Canadian Association of Energy Service Companies (CAESCO). Rajan then moved on to establish his own energy consulting company called Globe Energy Solutions, which has been instrumental in implementing DSM projects in municipalities, hospitals and industries. For the last 12 years, Rajan has been leading the Energy Management Program for the City of Mississauga. The city received the prestigious CH2M Hill Sustainable Communities Award from the Federation of Canadian Municipalities in 2002 for its Energy Management Program. Two of the community centres have also qualified for the CBIP (Canada Building Incentive Program) grant for energy efficient design. The Ontario Power Authority presented Mississauga an award in "Leadership in Sustainable Energy Management" in 2005. In 2008, the Mississauga Board of Trade presented the "Environmental Excellence Award" to the City of Mississauga.

EVENT ORGANIZER: PHIL MAKI, P.ENG., FEC.

PLEASE REGISTER FOR THIS EVENT BY FEBRUARY 20, 2013.

THERE IS NO CHARGE FOR THIS EVENT.



Professional Engineers
Ontario

Mississauga Chapter

Annual General Meeting - 2013

Wednesday, February 6, 2013

6:30 p.m. to 9:30 p.m.

Credit Valley Golf and Country Club
2500 Old Carriage Road, Mississauga

Please Note: NO BLUE JEANS

Agenda:

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- Guest speaker
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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. Board terms of the office are one year in duration. The Nomination Committee Chair (Khaled El-Rahi, P.Eng.) must receive nominations at least two weeks before the Chapter AGM (by January 23, 2013). Please scan and submit signed nomination form to:

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