



Chapter News

SEPTEMBER 2014

EAST TORONTO CHAPTER

VOLUME 2014-2

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2014 Chapter Board

Chair's Message

East Toronto Chapter has a busy schedule of fall-winter season activities. Among them, plans are underway to host a wine tasting event to be held at the Arts and Letters Club of Toronto. This is expected to be another successful social event to follow up on the summer BBQ, which was hosted jointly by East Toronto Chapter and OSPE on July 5. These social events bring recreation to our members and their family members, as well as provide an opportunity for professional networking. A slate of eight seminars on diverse subjects is in place: public transit (Dubai Metro Project); the environment (one seminar titled "Climate Reality" and another one titled "Limits to Renewable Energy Penetration" about energy sources); other relevant subjects (P.Eng. Licensure and Benefits, to be delivered by one of our PEO councillors, Continuing Professional Development, from the OSPE program of seminars, "Financial Planning 101", "Gardiner ExpressWay Dismantling" and, last but not least, "Engineering in the 21st Century – The Need for a New Type of Leadership", by Engineers Without Borders). Committee work will continue, including: Education Outreach (Meet and Greet annual event with Ryerson Engineering Student Society), scholarships for students entering the

first year of engineering at an accredited university program in Ontario, and the Licensure Assistance Program (LAP) that started on July 23 and is expected to continue until December 2014); and GLP, which continues to be active keeping in touch with MPPs with constituencies within our chapter boundaries. At least one more New Member Licence Certificate Presentation Ceremony will be held on September 9, with possibly another one in November for a total of three or possibly four such ceremonies this year.

We have instituted a system of online seminar registration through the East Toronto Chapter website. We expect this will simplify and make it easier to organize and manage seminar registration, hopefully leading to an increased number of participants. Our ETC webmaster has done a great job in adding this new feature, as well as keeping the chapter website relevant and informative.

Please contact me or one of the chapter board members if you have any suggestions regarding future events or chapter activities.

*Hugo Moreira, P.Eng.,
Chair*

Seminar: Dubai Metro Project - Underground Construction

Canada has an ambitious plan of expansion and development of transportation systems to meet the increasing demand. There are many new transportation projects, especially LRT and subways, in addition to the expansion of existing facilities. This presentation, "Dubai Metro Project", is about the world's largest driverless LRT. Some of the construction methods implemented in the project were unorthodox, such as top-down underground station construction, single-tunnel-dual-track TBM, launching girders, etc. In addition to program and project management, unconventional measures like integration management and risk & safety management were used.

Although the LRT industry in Ontario is well established and a mature industry in North America, some of the techniques implemented in the Dubai Metro Project have not been used in Ontario. Therefore, this session will be a good opportunity for knowledge transfer. This seminar will be presented by Osamah I. AL-Ayoobi and Mohamad Y. Alani, Senior Engineers at Roads & Transportation Authority (RTA) Dubai, UAE.

Osamah I. AL-Ayoobi has a Bachelor in Mechanical Engineering with 25 years' experience in corporate, program and project management, with extensive risk and scheduling skills. He has worked on the Dubai Metro Project for the last seven years as Chief Follow-up Engineer. He contributed to many strategic projects, such as the Dubai Tram Project, Implementation PMO in the Rail Agency, and the final taking-over of Dubai Metro.

Mohamad Y. Alani has a Bachelor in Civil Engineering, EIT, with more than 25 years of diverse international experience in construction, management, contract administration and project coordination. He has been with Dubai Metro and rail transit projects for the last seven years as Project Manager. His experience in the transit industry included construction of tunnels, underground stations, cut and cover, viaducts, aboveground stations, depots and multi-storey car park buildings.

Date: September 8, 2014

Time: 6:30 p.m. to 9:00 p.m.

Location: S. Walter Stewart Public Library, 170

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Seminar: (E-1) Limits to Renewable Energy Penetration

This seminar discusses the technical limits to how much wind and solar can be installed on the electrical grid. The presentation is one hour, followed by a question and answer period and will provide information from OSPE's energy advocacy studies, including:

- Benefits and challenges of wind and solar generation
- Present electrical grid constraints and their impact on wind and solar generation
- Cost impact of dispatching generation (load following)
- Wind and solar production profiles compared with actual electrical demand
- Why dispatching down (constraining output) of wind and solar generation has become necessary
- Limits to how much wind and solar can be installed on the grid

Presenter: Paul Acchione, P.Eng.

Paul has B.A.Sc. and M. Eng. degrees in Mechanical Engineering from the University of Toronto. Paul is a licensed professional engineer in Ontario and is a member of OSPE, CAE, ASME, ANS, IEEE, and ISA. Paul has over 43 years of engineering and management experience in the nuclear and fossil power generation industry. He worked with Ontario Power Generation (OPG) and its predecessor companies in their fossil and nuclear engineering divisions from 1971 to 2002. He currently does consulting work through Market Intelligence and Data Analysis Corporation and Canadian Power Utility Services. He was the 2013-2014 President and Chair of the Ontario Society of Professional Engineers (OSPE) and is its 2014-2015 Past Chair. Paul was made a Fellow of the Canadian Academy of Engineering (CAE) in 2014.

Date: October 15, 2014

Time: 6:30 p.m. to 9:00 p.m.

Location: S. Walter Stewart Public Library, 170 Memorial Park Ave., Toronto M4J 2K5

Via TTC: From Coxwell Station on Bloor-Danforth Subway, take the East 70 O'Connor bus toward Warden Station, going northbound on Coxwell Ave. Drop off at Barker Ave. Then walk 30 metres north and turn left (west) into Memorial Park and walk two blocks to reach the library.

Via Automobile: Limited parking on north side of the library, and on side streets.

Light refreshments will be served.

Cost: Free of charge.

Registration is required. Please register online at www.easttoronto.peo.on.ca by clicking events on the top menu to access the calendar, then clicking on the event that is shown on the calendar and following the prompts.

If you have any questions regarding the presentation, please contact Arthur Sinclair, P.Eng., at home@arthursinclair.ca.

If you have any questions regarding the online registration, please contact Dan Mireanu, P.Eng., at dan.mireanu@gmail.com.

Seminar: An Engineering Perspective on Climate Change

What does the science really say about climate change? How can we account for future weather in our designs? Does this trigger any responsibilities for our profession? What are the economic opportunities and challenges? Come hear about climate science told from an engineering perspective. Hear the latest scientific findings. Have your questions answered. Skeptics and environmentalists alike can get a sharper understanding of where the line is currently drawn between science and speculation. You will also learn what we, as engineers, can do about it, at the technical, regulatory, and political levels.

This topic is so broad as to be relevant to all fields of engineering. The Ontario power grid is being modified by political mandate; civil engineers are being asked to design for more extreme floods; automotive engineers are wondering about future competition from electrical vehicles; agricultural engineers are being asked about heat tolerant crops. Whether you believe in the science or not, your customers will be asking you questions. You want to be prepared with answers. If you work on machines that produce, consume, or monitor energy, if your products are used in the water, agriculture, forestry or health care industries, or if you are concerned about engineering jobs and the future of our economy, this presentation is for you. This will be a two-hour presentation with an intermission.

Presenter: Yannick Trottier, P.Eng. Mr. Trottier holds a degree from MIT in aerospace engineering, and recently completed a nine-week MIT class on Climate Science with a final grade of 96%. He was a co-founder of Spectral Applied Research, a high-

technology start-up that built the MOST space telescope and operated a LIDAR ozone observatory in the Arctic. Spectral was sold to Oxford Instruments last year. Mr. Trottier has given lectures about climate change to Chinese universities and various groups across Canada.

Date: October 1, 2014

Time: 6:30 p.m. to 9:00 p.m.

Location: S. Walter Stewart Public Library, 170 Memorial Park Ave., Toronto M4J 2K5

Via TTC: From Coxwell Station on Bloor-Danforth Subway, take the East 70 O'Connor bus toward Warden Station, going northbound on Coxwell Ave. Drop off at Barker Ave. Then walk 30 metres north and turn left (west) into Memorial Park and walk two blocks to reach the library.

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If you have any questions regarding the presentation, please contact John Glover, P.Eng., at gloverjyz@gmail.com.

If you have any questions regarding the online registration, please contact Dan Mireanu, P.Eng., at dan.mireanu@gmail.com.

Seminar: Financial Planning 101

When people are asked what is meant by financial planning, their mind automatically gravitates to investments and rate of return. Although investments or investment planning is important, this is only one-sixth of a comprehensive financial plan. The purpose of this presentation is to look at the additional issues that deal with tax planning, retirement planning, estate planning, cash management and risk management. Only when all the other pillars are discussed and analyzed can a person truly have an optimized financial future.

Presenter: Timothy Zseto, CFP, CLU, CHS, is a Certified Financial Planner (CFP), Chartered Life Underwriter (CLU), and Certified Health Insurance Specialist (CHS), who provides holistic financial planning and customized strategies that allow clients to build and retain wealth for present and future generations. Over the past years, he has consistently ranked among the top advisors in his field. Timothy graduated top of his class in Honours Systems Design Engineering at the University of Waterloo, with a Minor in Economics, and Options in Management Sciences and Biomechanics. Prior to joining Investors Group, Timothy was a Research Engineer at Sunnybrook Health Sciences Centre and published as primary author, The x-ray light valve: A potentially low-cost, digital radio-graphic imaging system - liquid crystal cell design for chest radiography. Timothy is currently a Division Director and Senior Financial Consultant at the Toronto Midtown office of Investors Group, leading a team comprising three staff

members and 13 consultants. He has been happily married for six years with his lovely wife, Sophia Chan-Szeto.

Date: November 3, 2014

Time: 6:30 p.m. to 9:00 p.m.

Location: S. Walter Stewart Public Library, 170 Memorial Park Ave., Toronto M4J 2K5

Via TTC: From Coxwell Station on Bloor-Danforth Subway, take the East 70 O'Connor bus toward Warden Station, going northbound on Coxwell Ave. Drop off at Barker Ave. Then walk 30 metres north and turn left (west) into Memorial Park and walk two blocks to reach the library.

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Cost: Free of charge.

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If you have any questions regarding the presentation, please contact Sneha Mathrani, EIT, at mathrani.sneha@gmail.com.

If you have any questions regarding the online registration, please contact Dan Mireanu, P.Eng., at dan.mireanu@gmail.com.



Seminar: Engineering in the 21st Century: The Need for a New Type of Leadership

There is a set of "wicked" problems in the world: growing inequalities, access to appropriate technology, sustainability, local and global impacts,... Engineering has a crucial role to play in being part of solving those wicked problems where solutions are not obvious, and where interconnectedness and adaptability must be central to problem solving. Engineers Without Borders' work in the engineering industry is focused on these types of wicked problems with the ultimate goal of an engineering profession solving complex issues in the world. For this kind of work, a new type of leadership is required. With this seminar, come explore what it means, as engineers, to work toward solving complex social and environmental problems in the 21st century. Through different tools like social intrapreneurship and global engineering, learn about how you can make a difference for the world, from your workplace.

Presenter: Mark Abbott, P.Eng. Mark has a degree in Mechanical Engineering, as well as MBA, CMA, and PMP. He worked for years in the

consulting world at Fransen Engineering Ltd, as, among other roles, †Manager of Mechanical Engineering and Director of Marketing. Over his time at Fransen, he completed numerous projects in the pulp and paper, oil and gas, and thermal/power fields.

In 2006, he joined the Engineers Without Borders Professional Chapter of Vancouver, where he helped to launch the Fair Trade Vancouver initiative and travelled to Ghana as a Professional Fellow in 2010. Shortly after, Mark joined EWB National Office as part of the Executive Team, leading a Talent Team that attracts, engages, and enables system change leaders in full-time roles within the organization.

Date: November 24, 2014
Time: 6:30 p.m. to 9:00 p.m.
Location: S. Walter Stewart Public Library, 170 Memorial Park Ave., Toronto M4J 2K5

Via TTC: From Coxwell Station on Bloor-Danforth Subway, take the East 70 O'Connor bus toward Warden Station, going northbound on Coxwell

Ave. Drop off at Barker Ave. Then walk 30 metres north and turn left (west) into Memorial Park and walk two blocks to reach the library.

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Light refreshments will be served.

Cost: Free of charge.

Registration is required. Please register online at www.easttoronto.peo.on.ca by clicking events on the top menu to access the calendar, then clicking on the event that is shown on the calendar and following the prompts.

If you have any questions regarding the presentation, please contact Sneha Mathrani EIT, at mathrani.sneha@gmail.com.

If you have any questions regarding the online registration, please contact Dan Mireanu, P.Eng. at dan.mireanu@gmail.com.

Seminar: (CPD-1) Continuing Professional Development Programs in Canada

Discusses the various programs in Canada and summarizes the CPD Program recommended by OSPE to PEO for PEO's consideration.

The presentation is one hour, followed by a question and answer period, and will provide information from OSPE's continuing professional development advocacy studies, including:

- Fundamental goal of CPD programs
- Stand-alone CPD versus CPD within an engineering QA program
- A summary of engineering CPD programs in various provinces
- The criticisms of CPD programs
- Minimizing unnecessary reporting paperwork
- Incorporating more flexibility to accommodate work demands
- Recognizing changing CPD needs as engineers become more experienced
- Opting in and out of CPD requirements as job requirements change

Summary of OSPE's recommended CPD practices for Ontario

Presenter: Paul Acchione, P.Eng. Paul has B.A.Sc. and M. Eng. degrees in Mechanical Engineering from the University of Toronto. Paul is a licensed professional engineer in Ontario and is a member of OSPE, CAE, ASME, ANS, IEEE, and ISA. Paul has over 43 years of engineering and management experience in the nuclear and fossil power generation industry. He worked with Ontario Power Generation (OPG) and its predecessor companies in their fossil and nuclear engineering divisions from 1971 to 2002. He currently does consulting work through Market Intelligence and Data Analysis Corporation and Canadian Power



Utility Services. He was the 2013-2014 President and Chair of the Ontario Society of Professional Engineers (OSPE) and is its 2014-2015 Past Chair. Paul was made a Fellow of the Canadian Academy of Engineering (CAE) in 2014.

Date: December 3, 2014
Time: 6:30 p.m. to 9:00 p.m.
Location: S. Walter Stewart Public Library, 170 Memorial Park Ave., Toronto M4J 2K5

Via TTC: From Coxwell Station on Bloor-Danforth Subway, take the East 70 O'Connor bus toward Warden Station, going northbound on Coxwell Ave. Drop off at Barker Ave. Then walk 30 metres north and turn left (west) into Memorial Park and walk two blocks to reach the library.

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If you have any questions regarding the presentation, please contact Hugo Maureira, P.Eng., at hamxyz070@gmail.com.

If you have any questions regarding the online registration, please contact Dan Mireanu, P.Eng., at dan.mireanu@gmail.com.

East Toronto Chapter Annual General meeting and Seminar

Date: January 28, 2015
Time: 6:30 p.m. to 9:30 p.m.
Location: The Arts and Letters Club of Toronto, 14 Elm St., Toronto, ON M5G 1G7

Seminar: Gardiner Expressway Dismantling

Presenter: Frank Clarizio, P.Eng., Capital Works Delivery Engineering & Construction, City of Toronto.



An Evening of Wine and Cheese

For the third time in eleven years, our Chapter will be hosting this delightful event, following our successes in 2003 and again in 2009.

Our host will be Jeff Mark, P.Eng, who hosted our 2009 event. A wine lover for more than 45 years, Jeff was introduced to wines when he first met his wife's uncle Paul Baumgaertner, who had run a school for hoteliers in Davos, Switzerland. When Uncle Paul learned that Jeff knew nothing about wines, he started teaching Jeff all about wine tasting, wine appreciation and wine enjoyment. The lessons continued once or twice each year, for 35 years. As a result, Jeff is truly a wine lover who enjoys all types of wines, and who enjoys teaching others about all types of wines.

Jeff has led tours of PEO's York Chapter engineers and guests to the Niagara Region. He also has visited wineries in York Region, Durham Region, Simcoe County and Prince Edward County in Ontario; as well, he has enjoyed visits to wineries on Vancouver Island, BC. In the United States, Jeff has sampled wines in the Finger Lakes District of New York state, in wine regions of Pennsylvania and of Oregon, and wineries in the Napa Valley, Sonoma Valley and South Central Valley of California. And internationally, he has enjoyed wines in Switzerland and in Costa Rica.

Date: Thursday, 20 November 2014

Time: 6:30 - 9:30 p.m.

Location: The Arts & Letters Club, 14 Elm Street, Toronto, ON M5G 1G7

Via TTC: Two short blocks north of Dundas Station, Yonge subway. North side of street, about 50 m west of Yonge Street.

Via Automobile: Very limited, expensive and frequently patrolled pay-at-the-kiosk on nearby side streets. Flat-rate (approx. \$10.00, payment by credit card only) parking below Delta Chelsea Hotel, north side of Elm about 50 m. west of The Arts & Letters Club; flat rate parking available also below nearby office and hospital towers.

Limit: 100. Sooner is better than later to reserve your seat(s)

Cost: \$20.00 per person, member plus up to three guests, to help defray the cost of the wine, the cheese, the room rental and the wine glass rental.

Please be sure to have a light supper before coming to the wine tasting.

Reservation: Confirmation of your attendance will be upon receipt of your cheque, payable to "East Toronto Chapter, PEO," mailed to John Glover, P.Eng., 9 Oakdene Crescent, Toronto, ON M4J 4H8. Please confirm ALSO directly with John at gloveryz@gmail.com or 416-463-3169, including 1. your name, 2. your telephone number, and 3. number of people in your group.

Seminar: P.Eng. Licensure and Benefits

Attend this Seminar IF

- You are wondering what the P.Eng. licence is all about
- You are thinking of applying for the P.Eng. licence
- You have already applied for the P.Eng. licence and obtained the EIT designation
- You wonder what the licensing process is
- You don't think you need to get the P.Eng. licence
- You are not sure what the benefits are of having a P.Eng. licence

Presenter: Changiz Sadr, P.Eng., East Central Regional Councillor

Date: September 17, 2014

Time: 6:30 p.m. to 9:00 p.m.

Location: S. Walter Stewart Public Library, 170 Memorial Park Ave., Toronto M4J 2K5

Via TTC: From Coxwell Station on Bloor-Danforth Subway, take the East 70 O'Connor bus toward

Warden Station, going northbound on Coxwell Ave. Drop off at Barker Ave. Then walk 30 metres north and turn left (west) into Memorial Park and walk two blocks to reach the library.

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If you have any questions regarding the presentation, please contact Hugo Maureira, P.Eng., at hamxyz070@gmail.com.

If you have any questions regarding the online registration, please contact Dan Mireanu, P.Eng., at dan.mireanu@gmail.com.

Dubai *continued from page 1*

Memorial Park Ave., Toronto M4J 2K5

Via TTC: From Coxwell Station on Bloor-Danforth Subway, take the East 70 O'Connor bus toward Warden Station, going northbound on Coxwell Ave. Drop off at Barker Ave. Then walk 30 metres north and turn left (west) into Memorial Park and walk two blocks to reach the library.

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If you have any questions regarding the presentation, please contact K. Shahzad Baig, P.Eng., at baigt.toronto@yahoo.ca.

If you have any questions regarding the online registration, please contact Dan Mireanu, P.Eng., at dan.mireanu@gmail.com.

2014 Chapter Board

Officers

Chair	Hugo Maureira, P.Eng. hamxyz070@gmail.com
Vice-Chair	Arthur Sinclair, P.Eng. home@arthursinclair.ca
Secretary	John D. Bailes, P.Eng. jdbailes@worldline.ca
Treasurer	Robert Li, P.Eng. li.robt@gmail.com
Past Chair	John Glover, P.Eng. gloveryz@gmail.com

Executives

Chair, GLP Committee
Shah Alamgir, P.Eng.
shah_alamgir99@hotmail.com

Chair, Education Outreach
K. Shahzad Baig, P.Eng.
baigt.toronto@yahoo.ca

Member, GLP Committee
Naser Choudhury, EIT
naser.choudhury@gmail.com

Member GLP Committee
Sneha Mathrani, EIT
mathrani.sneha@gmail.com

Chair, EIT Licensure Assistance Program (LAP)
K. Shahzad Baig, P.Eng.
baigt.toronto@yahoo.ca

**Member, Events Committee/
New Members & AGM**
Mai-Linh Ho, EIT
mai.linh.ho@outlook.com

Member, Events Committee
Peter Jancic, P.Eng.
jancic@rogers.com

Member, Events Committee
Georges Livanos, P.Eng.
glivan@pathcom.com

Webmaster
Dan Mireanu, P.Eng.
dan.mireanu@gmail.com

Chair, New Members & AGM
Kong Seto, P.Eng.
kong.seto@gmail.com

Member, Events Committee
Denis Beaulne
beaulndj@gmail.com

Member, Events Committee
Elena Ramirez
ramirec84@hotmail.com

Member, Events Committee
David Zackon, P.Eng.
zackon@centtel.com

VP – External Ryerson Engineering Student Society
vp@ress.ca

Chapter Web address:
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