



Chapter News

MARCH 2015

EAST TORONTO CHAPTER

VOLUME 2015-1

Chair's Message

Seminar:
"Toronto Transit Planning
- The State of the Union"

Seminar:
Engineering Contracts

New Member Licence Certificate
Presentation Ceremony

Seminar: Bulk Power System
Reliability Standards

Seminar: The Real Cost of
Electrical Energy

Seminar:
Are Humans Ready to Land
and Explore On Mars

Seminar:
Personal Stress Management

2015 Chapter Board

Chair's Message

Our previous year 2014 saw some positive changes in the organization of chapter events. We held 13 seminars, which is three more than we had committed in our 2014 Business Plan. We had a successful summer BBQ for the first time ever. We started using online registration for chapter events. We instituted this online registration early in the year, so it was used for most of the events hosted by the chapter. This has worked well for the most part, with increased attendance to seminar events and average attendance of 40 to 60 people. However, we have a problem that I wish to bring to your attention and seek your cooperation to resolve. Online registration is done conveniently through EventBrite and many people register. So far, all our seminars have been free of charge, which means we pay no fee to EventBrite for its service. The problem is that approximately 25 per cent to 30 per cent of those registering do not attend. Our cost for rental of the venue is fixed and independent of the attendance. Soft drinks and bottled water can be saved for the next event, as they are non perishable consumables. However, our food order, which includes sandwiches, is based on the expected attendance from registrations. There is a significant cost associated with food and we do not want to waste excess food. Occasionally, we can offer this to staff of the venue, but this is not always practical and not what the food is intended for either. Therefore, I want to encourage all members to continue to register for seminars, but please attend and don't be a no-show. EventBrite sends an automatic reminder one or two days before an event to the email address of the registrant. It is perfectly understandable and acceptable that, occasionally, a member can face a last-minute schedule conflict and cannot attend, but these should be just a few cases. If you know that you cannot attend two or more days before an event, please go back to online

registration and cancel your registration (and guest if applicable). We place our food order two days before the seminar event. If this appeal does not work, we might have to resort to charging a fee in the future on the assumption that anyone paying will be more mindful of not missing the event. We have never charged, and we want to keep it that way, if possible.

We intend to have another 13 seminars in 2015 and our spring season for this year has a slate of six seminars scheduled from March 23 to June 23. We will also host a summer BBQ once again this year on a date to be determined but announced well ahead of time.

*Hugo Maureira, P.Eng.
Chair*

Seminar: "Toronto Transit Planning - The State of the Union"

This engaging presentation will summarize the current status of Toronto transit planning. The audience will be presented existing and comparative data that focuses on the practical realities and environment within which the TTC operates, including:

- TTC's statistics vs. other agencies
- Land use and development (past, present, and future)
- How to evaluate and rank projects
- How to address the triple Whammy (pent-up demand, SOGR, planning for growth)
- Operating vs. capital vs. policy improvements
- Technology selection - when is a bus vs. BRT vs. streetcar vs. LRT vs. subway appropriate
- Toronto and Ontario financial status (vs. other jurisdictions)
- Transit funding and priorities
- Decision-making process (bureaucrats and politicians)
- Pervasive Toronto myths



Presenter Rishi Lukka, P.Eng

Rishi is a professional engineer, and a public transit planning and economics enthusiast. He grew up in Oakville, and attended the University of Waterloo for his undergrad. He graduated in 2007 with an Honours B.A.Sc. in Systems Design Engineering, focused on control systems, and also has a BA in Liberal Arts. Initially, he worked in technical and business development roles in the automation/instrumentation industry; however, after seven years, he is following his passion for urban development. Over the last several years, he has been intently following the Toronto transit debate, and is currently completing an M.Eng. in Transportation Engineering and Planning at Ryerson. He writes a transportation blog at theUrbanEngineer.com, and, in April, will start a job with ARUP in Toronto.

**Date: March 23, 2015
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 H. Maureira, P.Eng., at hamxyz070@gmail.com.

If you have any questions regarding the online registration, please contact James Tait, EIT, at james.tait@outlook.com.

**Seminar:
Engineering Contracts**

**Presented by:
Maurice Audet and Shelley Lloyd, both of
Aon Reed Stenhouse Inc.**

The seminar deals with the subject of professional liability and managing your E&O risk. Highlights of the presentation are as follows. Errors and Omissions: what E&O is,

sample cases/claims. Negligence versus contract: obligations to others. Standards of care. Damages: direct, consequential. Joint and several liability: loser pays. Insurance and risk management considerations.

Maurice Audet started his insurance career in 1973 after completing a master’s degree in Political Science at Simon Fraser University. Maurice is a Senior Vice President at Aon Risk Solutions and has worked for Aon for nearly 25 years. Maurice’s activities include designing and implementing risk management solutions for clients in the fields of real estate, construction, engineering and independent power. In addition, Maurice is a resource for Aon offices and is actively involved in researching and keeping abreast of insurance-related case law.

Maurice is a frequent contributor to seminars related to insurance and insurance law and has authored numerous articles, including a book addressing many of the issues involved in insuring a construction project.

Shelley Lloyd is a lawyer providing coverage analysis, advocacy and research resources to Aon Risk Solutions’ Claims team. She is a specialist in management and professional liability risk, including D&O, E&O, fidelity, fiduciary liability, trustee liability and regulatory management risk.

Shelley joined Aon in January 2007 as one of the two founding lawyers of the Legal and Research Practice (LARP) in Aon’s Financial Services Group. As a member of LARP, Shelley analyzed, audited and developed policy wording for Aon’s management liability insurance lines, published and spoke on legal developments affecting executive and corporate liability exposures, and provided successful claims and coverage advocacy for Aon’s clients. She has made numerous presentations to Aon’s clients on loss control, professional liability and emerging D&O risks. Shelley is also the author of “Protecting Your Organization, Your Board, Yourself: What every in-house counsel needs to know about D&O insurance”, which was published in the International In-House Counsel Journal.

Prior to joining Aon, Shelley was Claims Counsel for Specialty Casualty Claims at Liberty International Underwriters, with a focus on professional liability, and was an insurance defence litigator at Toronto law firm, McCague, Wires, Peacock, Borlack, McInnis & Lloyd. Shelley received an Hon.B.Sc. from the University of Toronto, and her law degree from the State University of New York School of Law. She is called to the bar in New York, Connecticut and Ontario.

**Date: March 31, 2015
Time: 6:30 p.m. to 9:00 p.m.**

Location: Northern District Public Library, 40 Orchard View Blvd, Toronto M4R 1B9
Via TTC: From Eglinton station on Yonge subway, walk one block north of Eglinton to Orchard View Blvd., then turn left and walk 50 to 100 metres to reach the library.

Via Automobile: Limited metered parking at the library. Several parking garages in the area, most charging between \$5 and \$10 flat rate after 6:00p.m. More parking information at this link: http://en.parkopedia.ca/parking/yonge_and_eglinton/.
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 Hugo Maureira, P.Eng., at hamxyz070@gmail.com.

If you have any questions regarding the online registration, please contact James Tait, EIT, at james.tait@outlook.com.

**New Member Licence Certificate
Presentation Ceremony**

**Date: April 1, 2015
Time: 6:30 pm – 9:00 p.m.**

Location: The Arts and Letters Club of Toronto, 14 Elm Street, Toronto M5G 1G7

**Seminar: Bulk Power System
Reliability Standards**

This presentation will cover the following aspects of the subject.

History and organization of the electricity industry in North America

- Reliability history
- Defining reliability and adequate level of reliability (ALR)
- Types of NERC standards and standards numbering

Questions about compliance with NERC standards:

- Who has to comply?
- What facilities do the standards apply to?
- BES Definition
- When is compliance due?

Governance structure in the US and in Canada with emphasis on Ontario



- NERC standards development processes
- Audits and compliance enforcement
- Regional (NPCC) obligations

Presenter: David Kiguel, P.Eng.

David Kiguel was involved in reliability modelling, assessments and standards for most of his 36-year career with Hydro One and its predecessor Ontario Hydro. He was Manager of Reliability Standards until his retirement from Hydro One in September of 2013. For the last 10 years with Hydro One, he was actively involved in reliability standards development and compliance activities in the North American Reliability Corporation (NERC), the North East Power Coordinating Council (NPCC), the North American Transmission Forum (NATF) and the Ontario Independent Electricity System Operator (IESO). He is a recognized expert in bulk electric system reliability standards and their regulatory framework.

He was a member of the NERC Standards Committee (SC), representing Canada-at-large, and the Standards Committee Process Subcommittee (SCPS) for five years until retiring in 2013. During three of his five years of SC membership, he was also a member of its executive committee. After 2013, David has continued to be involved and was again nominated and elected as a NERC SC member for the 2015-2016 period, this time representing the Small Electricity End Users segment. During his over 10 years of participating in NPCC, he was a member of the Regional Standards Committee, its executive committee, and the Compliance Committee.

David was a member of the NERC Paragraph 81 Standard Drafting Team and participated and led many teams of the SC and SCPS, such as in reviews of the Standards Processes Manual (SPM), Reliability Standards Development Plan (RSDP), etc.

Mr. Kiguel obtained his Electrical Engineering degree from the University of Chile in 1969 and did postgraduate studies and research work in the same discipline at the University of Toronto.

Mr. Kiguel is a registered professional engineer in Ontario (1978). He is a member and current Vice-Chair of PEO's Experience Requirements Committee. David is an IEEE Senior Member (1996), an Fellow of Engineers Canada (2013) and a 2014 recipient of a Volunteer Service Award presented by the Ontario Ministry of Citizenship and Immigration to recognize his PEO voluntary work.

Date: April 22, 2015
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 Hugo Maureira, P.Eng., at hamxyz070@gmail.com.

If you have any questions regarding the online registration, please contact James Tait, EIT, at james.tait@outlook.com.

Seminar: The Real Cost of Electrical Energy

- discusses the comparative cost of electricity and the carbon dioxide emissions that would result from a wind, solar, nuclear or natural gas generation grid.

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

- Why the demand profile is critical to understanding the real cost of production
- Price confusion - the different prices for electricity
- The cost impact of load following (dispatching)
- Solar production profiles and how that impacts generation & storage capacity
- Wind production profiles and how that impacts generation & storage capacity
- The total delivered energy cost of solar, wind, nuclear and natural gas

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 ASME, ANS, IEEE, ISA and a fellow of the Canadian Academy of Engineering. Paul has over 43 years of engineering and

management experience in the power generation industry. He worked for 31 years with Ontario Power Generation (OPG) and its predecessor companies. He is now a Management Consultant at Market Intelligence & Data Analysis Corporation. Paul was the 2013-2014 President and Chair of the Ontario Society of Professional Engineers (OSPE) and is currently its 2014-2015 Past Chair.

Date: May 4, 2015
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 Hugo Maureira, P.Eng., at hamxyz070@gmail.com.

If you have any questions regarding the online registration, please contact James Tait, EIT, at james.tait@outlook.com.

Seminar: Are Humans Ready to Land and Explore On Mars

Since the Mars Science Laboratory (Curiosity) landed on Mars, there has been increasing interest whether humans can travel to our neighbouring planet. This presentation will outline the known hazards in outer space missions and draw attention to the issues of incessant radiation, microgravity effects, shielding inadequacy, and the psychological effects on a long, lonely journey. The presentation will also outline the concepts of how to get to Mars, the possible countermeasures against the known hazards, and the latest on-going research in progress.

Presenter: Nick Sion, P.Eng.
Nicholas Sion is a graduate of London



University (UK) in Engineering Physics, plus an Advanced Math degree from Battersea College of Engineering, then part of London University, and now University of Surrey (UK). He also did postgraduate studies at Birmingham University (UK) on airborne radars, most of which were classified. He was sent to Toronto to work on the navigation system of the cruise missile. But Ontario Power Generation (OPG) made an offer he couldn't refuse, where he designed the nuclear energy monitoring systems and radiation instrumentations that are currently in operation in CANDU power plants. He then became a consultant at Atomic Energy of Canada Ltd (AECL), where he worked on the MAPLE reactor project for medical isotopes. He now applies his training to radiation protection of astronauts from galactic radiation, alternative methods of developing radioisotopes, and the protection of patients and medical staff from therapeutic radiation. He also maintains a keen interest in nuclear reactor developments.

Date: May 28, 2015
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 John Glover, P.Eng., at gloveryyz@gmail.com.

If you have any questions regarding the online registration, please contact James Tait, EIT, at james.tait@outlook.com.

Seminar: Personal Stress Management

If you are in a high-stress job, you are probably noticing its effects, like low energy levels, poor mental clarity and maybe even belly fat.

You intuitively know that it's not doing your health and performance much good, so in this presentation, you will learn what you can do about it.

By the end of this presentation, you will:

1. Learn how to fit exercise into your busy day
2. Understand how stress affects your body
3. Figure out effective stress management strategies
4. Find out how to decrease the negative effects of stress on your body, even if you can't make the stress itself go away
5. Identify which foods and nutrients improve your stress-coping ability

Presenter: Igor Klibanov

Igor is the author of 3 books on fitness, the most recent of which is STOP EXERCISING! The Way You Are Doing it Now. He has appeared on various television programs as the fitness expert, and now, as the CEO of Fitness Solutions Plus. He, together with his team of fitness professionals, aims to bring a holistic approach to fitness and body transformation. Using science-based, analytical methods, the Fitness Solutions Plus team helps busy, stressed-out engineers achieve better health and fitness in a way that fits their lifestyle.

In the past, Igor has been hired to speak at Qualcomm, the Ontario Podiatrists Medical Association, Toronto Lawyers Association, and many more.

Date: June 23, 2015
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 K. Shahzad Baig, P.Eng., at baig.toronto@yahoo.ca.

If you have any questions regarding the online registration, please contact James Tait, EIT, at james.tait@outlook.com.

2015 Chapter Board

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