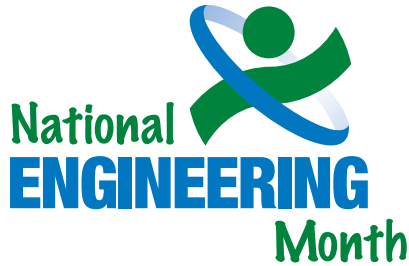


# [ NATIONAL ENGINEERING MONTH ]



## 2016 ONTARIO EVENT HIGHLIGHTS

National Engineering Month (NEM) is a Canada-wide, month-long celebration designed to raise awareness of engineering and engineering technology and its contributions to our everyday lives. This year, Ontario will be celebrating by hosting nearly 200 events staged by volunteers from our engineering student and professional communities. Members of Professional Engineers Ontario (PEO), the Ontario Association of Certified Engineering Technicians and Technologists (OACETT), the Ontario Society of Professional Engineers (OSPE) and Engineers Without Borders Canada (EWB) will team up to offer great opportunities to have fun, learn and give back to the community. Come join in! You can sign up to volunteer, take your family to an event, visit [nemontario.ca](http://nemontario.ca) to follow the action throughout March, or follow us on social media at [facebook.com/nemontario](https://www.facebook.com/nemontario), and Twitter and Instagram on [@nemontario](https://www.instagram.com/nemontario).

The following is a partial list of the events planned and hosted by PEO chapters during National Engineering Month 2016. Please refer to [nemontario.ca/events](http://nemontario.ca/events) for a complete list.

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### ETOBICOKE

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#### ENGINEERING IDOL 2016

**March 5, University of Toronto Bahen Centre** PEO's Etobicoke Chapter is hosting its ninth annual Engineering Idol competition. Teams from 10 selected high schools will compete to create a prosthetic hand capable of performing several tasks. Students will brainstorm creative ways of using pneumatic, hydraulic, electrical and mechanical methods to facilitate finger and hand motions. Contact Andrew Demeter, P.Eng., [ar.demeter@gmail.com](mailto:ar.demeter@gmail.com), 416-505-8433.

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### LONDON

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#### CITY OF LONDON LUNCHEON

**February 29, London Hilton** Our kickoff luncheon is an event where our city engineer will address an audience on the past year's and upcoming year's engineering projects. The event is open to the public and is a great way to show how engineering shapes the world around us and how it plays a part in our everyday lives. Contact Ian Cheng, P.Eng., [icheng@j-aar.com](mailto:icheng@j-aar.com), 519-701-6220.

#### LABATT BREWERY TOUR

**March 3, Labatt London** A brewery tour and presentation by resident engineer Scott Durnin, P.Eng., with an emphasis on engineering in manufacturing from a brewing engineer's perspective. Contact Syd Van Geel, P.Eng., [syd.vangeel@rogers.com](mailto:syd.vangeel@rogers.com), 519-852-4629.

#### FRAUNHOFER-UWO PROJECT CENTRE

**March 24, Fraunhofer-UWO Project Centre** The Fraunhofer Project Centre for Composites Research (FPC @ Western) is a joint venture between Western University and the Fraunhofer Institute of Chemical Technology (ICT) in Pfinztal, Germany. The FPC @ Western develops,

tests, validates and characterizes new, lightweight materials and advanced manufacturing processes at industrial scale. By combining Fraunhofer's latest global technologies and Western's strengths in materials engineering, the FPC @ Western proactively addresses the needs of its industry partners. Contact George Biljan, P.Eng., [gjbiljan@gmail.com](mailto:gjbiljan@gmail.com), 519-281-4388.

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### OAKVILLE

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#### THE WIDE WORLD OF ENGINEERING

**March 5, Holy Trinity Catholic School** The chapter will be hosting a day-long event at a local high school. The day will comprise three activities: speed engineering, lunchtime mini activities, and a design challenge. Contact Shannon Pole, EIT, [education@peo-oakvillechapter.ca](mailto:education@peo-oakvillechapter.ca), 289-440-1886.

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### OTTAWA

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#### UNIVERSITY OF OTTAWA OUTREACH EVENT

**March 10, University of Ottawa** An outreach event for engineering students to permit a better appreciation of professional engineering accreditation as well as a mentoring opportunity to learn from experienced engineers. Contact Sharon Barr, P.Eng., [sharonb@vrmeng.com](mailto:sharonb@vrmeng.com), 613-563-2100.

#### CANADIAN SPACE AND AVIATION MUSEUM KAPLA EVENT

**March 12, Canadian Space and Aviation Museum** Working individually or in groups, participants are challenged to build examples of real-life aviation or space-based vehicles and objects to permit evaluation on structure stability, mechanics and innovation. Contact Sharon Barr, P.Eng., [sharonb@vrmeng.com](mailto:sharonb@vrmeng.com), 613-563-2100.

#### CARLETON UNIVERSITY LUNCH & LEARN EVENT

**March 14, Carleton University** Senior experienced engineers share their stories and experiences as pro-

professional engineers and the future outlook for the industry. Students are then encouraged to share their ideas and career plans and enquire about future opportunities. Contact Sharon Barr, P.Eng., sharonb@vrmeng.com, 613-563-2100.

#### **CARLETON UNIVERSITY OUTREACH EVENT**

##### **March 16, Carleton University**

Outreach event for engineering students to permit a better appreciation of professional engineering accreditation, as well as a mentoring opportunity to learn from experienced engineers. Contact Sharon Barr, P.Eng., sharonb@vrmeng.com, 613-563-2100.

#### **UNIVERSITY OF OTTAWA LUNCH & LEARN EVENT**

##### **March 17, University of Ottawa**

Senior experienced engineers share their stories and experiences as professional engineers and the future outlook for the industry. Students are then encouraged to share their ideas and career plans and enquire about future opportunities. Contact Sharon Barr, P.Eng., sharonb@vrmeng.com, 613-563-2100.

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### **PETERBOROUGH**

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#### **2016 NATIONAL ENGINEERING MONTH DESIGN CHALLENGE**

**March 16, Evinrude Centre** This year's event will be a solar car challenge, where the students will build a small solar-powered car. Students will be provided the necessary materials to build a solar-powered vehicle to travel down a course. We will discuss with the students the challenges of solar power (energy and power density) and also give them examples of how to tailor their designs for the challenges that will be presented (flat and inclined tracks). Contact Daniel Manns, P.Eng., daniel.manns@ge.com, 705-939-6278.

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### **SAULT STE. MARIE**

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#### **SAULT STE. MARIE ENGINEERING**

**MONTH EVENT March 6 to 13, Sault Ste. Marie Station Mall** PEO's Algoma Chapter will host a series of engineering outreach activities in various local schools throughout the week leading up to the March 5 mall event. On Saturday, March 12, it will host an annual engineering day at the mall. This includes engineering displays from local businesses, a team math challenge, colouring contests, robotics displays and other exciting interactive displays. Contact Michael Paciocco, EIT, mcpaciocco@yahoo.ca, 705-949-1033, ext. 206.

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### **SUDBURY**

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**BRIDGE BUILDING 2016 March 1, Science North** Our annual bridge-building event is back again. Prepare your balsa wood bridges ahead of time with your class, or at home, and attend the day of the event to test their strength! Contact Jeff Shaw, EIT, jeffkshaw@gmail.com, 705-618-4386.

#### **NEM MALL ENGINEERING DISPLAYS**

**March 5, New Sudbury Centre** Showcasing with interactive displays some engineering wonders and achievements in our everyday life and several professions, such as mining, security and safety, and health care. Informing and engaging the public and school children about the steps to becoming an engineer. Showcasing Sudbury Chapter newsletters, banner and year-round activities through images and videos. Partnership with local engineering faculty volunteers to convey engineering promotional messages. Contact Francois Nzotungwanimana, P.Eng., francnzo@gmail.com, 705-618-4386.

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### **THUNDER BAY**

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**PEO STUDENT TEAM DESIGN COMPETITION March 4, Nordmin Engineering Ltd.** Team design competitions, such as catapult design and operation and test-

ing, and accuracy/distance competition. Contact Phil Riegler, P.Eng., philip.riegler@tetrattech.com, 807-624-5458.

#### **RESEARCH AND INNOVATION MALL EVENT March 5, Intercity Shopping Centre**

Table-top event with videos, hands-on activities, catapults, circuit boards, Rube Goldberg machine, hydraulics, etc. Contact Phil Riegler, P.Eng., philip.riegler@tetrattech.com, 807-624-5458.

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### **TORONTO**

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#### **DESIGN CHALLENGE 2016 March 23, Sir William Mulock Secondary School**

Team event for grades 7 and 8 students in York Region. Contact Lui Tai, P.Eng., lui.tai@peoyork.com, 905-284-8076.

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### **WATERLOO**

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#### **FIRST ROBOTICS PARTICIPATION**

**March 18, University of Waterloo** Interaction with high school students who are entered in the FIRST robotics competition. Contact Kaoru Yajima, P.Eng., kyajima@regionofwaterloo.ca, 519-575-4757, ext. 3349.

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### **WINDSOR**

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#### **WINDSOR-ESSEX ENGINEERING MONTH Throughout March in Windsor**

Activities include a poster competition, high school design competition, events at Canada South Science City, and an awards presentation luncheon. The program is administered by the Windsor-Essex Engineering Month Committee with representation from OACETT Essex Chapter, St. Clair College, the University of Windsor, and municipal and private firm volunteers. The activities promote public awareness of engineering/technology issues to multiple age groups. The theme chosen for 2016 is "Engineering and biomedical innovations." Contact Susan Jennings, C.E.T., sjennings@stclaircollege.ca, 519-972-2727, ext. 4611.