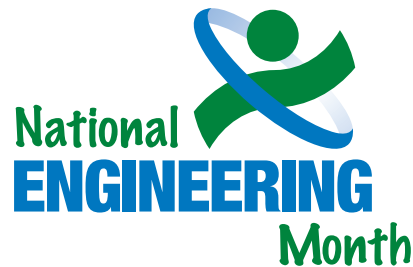


2017 ONTARIO EVENT HIGHLIGHTS



National Engineering Month (NEM) is a Canada-wide, national 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 hundreds of events throughout the province. These events are staged by volunteers from engineering student and professional communities, supported by 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).

Join in the celebrations! You can sign up to be a volunteer and help out at an event near you, bring your family to an event or follow all the action throughout the month on social media #NEM2017 (@nemontario on Twitter and Instagram, or facebook.com/nemontario).

The following is a partial listing of events planned, supported or hosted by PEO chapters during NEM 2017. Please refer to nemontario.ca for the full listing with confirmed dates and additional details.

CHATHAM

Impromptu Design Challenge
John McGregor Secondary School
PEO's Chatham-Kent Chapter is hosting design challenges for the Lambton-Kent district schools. There will be a junior (grades 7 and 8) and a senior (high school) challenge. Both events will challenge teams to build an apparatus to complete a specific task using the materials provided. Contact Ellen Sinclair, P.Eng., ERSincla@uniongas.com, 519-365-4305.

ETOBICOKE

Engineering Idol 2017
March 4, University of Toronto
PEO's Etobicoke Chapter is hosting their 10th annual Engineering Idol competition where teams from over a dozen selected high schools participate in a challenging engineering task. Contact Andrew Demeter, P.Eng., ar.demeter@gmail.com, 416-505-8433.

GEORGIAN BAY

Scale an Innovation:
Button-Making Event
PEO's Georgian Bay Chapter will engage the community through the making and wearing of buttons with engineering slogans and the NEM logo. Participants will be encouraged to pick or make their own designs and then watch the entire button-making process.

HAMILTON

Bay Area Science and Engineering Fair, Mohawk College
The Bay Area Science and Engineering Fair is an event for children in grades 7 through 12. Details are available at www.basef.ca. Contact Nigel Birch, P.Eng., nbirch5@cogeco.ca, 905-681-7287.

Scale an Innovation:
Button-Making Event
PEO's Hamilton-Burlington Chapter will engage the community through the making and wearing of buttons with

engineering slogans and the NEM logo. Participants will be encouraged to pick or make their own designs and then watch the entire button-making process.

KINGSTON

17th Annual Popsicle Stick Bridge-Building Contest, Boys and Girls Club (Frontenac Mall)
PEO's Kingston Chapter is hosting a popsicle stick bridge-building contest. Bridges built by contestants will be tested at the event. Lego Robotics kits will be available for students to use during the main event. Contact Doug Hamilton, P.Eng., douglas.robert.hamilton@gmail.com, 613-389-9628.

LONDON

2017 NEM Kick-off Luncheon
Double Tree by Hilton
PEO London Chapter's NEM kick-off luncheon will see the city engineer deliver a keynote address discussing the past year's and upcoming year's construction projects. Contact Ian Cheng, P.Eng., iancheng@rogers.com, 519-521-1225.

Canadian Centre for Product Validation event

The CCPV is unlike any other testing facility in Canada. It has been uniquely designed to be a multimodal development test facility, conducting electrical, mechanical, performance, environmental and thermal testing under one roof. Contact George Biljan, P.Eng., gjbiljan@gmail.com, 519-281-4388.

Labatt Brewery Tour, Labatt London

A brewery tour and presentation by resident engineer Scott Durnin, P.Eng., emphasizes engineering in manufacturing from a brewing engineer's perspective. Contact Syd Van Geel, P.Eng., syd.vangeel@rogers.com, 519-852-4629.

Scale an Innovation: Button-Making Event

PEO's London Chapter will engage the community through the making and wearing of buttons with engineering slogans and the NEM logo. Participants will be encouraged to pick or make their own designs and then watch the entire button-making process.

MUSKOKA

Engineering and Technology Model-Building Competition, Eastview Secondary School

PEO's Simcoe-Muskoka Chapter events for NEM 2017 will focus on a variety of STEM-oriented projects and activities, bridge-building and strength-testing competition, catapult competition, car competition, live engineering quiz and several demos. Contact Oday Wade'e, P.Eng., oday.wadee@peo-simcoe-muskoka.com, 647-667-7613.

NIAGARA REGION

Bridge-Busting Competition

Students (kindergarten through Grade 9) are encouraged to build a bridge at home from popsicle sticks and white glue. They are then invited to test the limits of their bridge in PEO's Niagara Chapter bridge-busting competition. Contact Stan Mathew, mathews@ae.ca, 905-346-0990, ext. 250.

Dream Big Niagara Falls IMAX Theatre

All around the world, engineers are pushing the limits of ingenuity and innovation in unexpected, imaginative and amazing ways. Dream Big, a giant-screen film about engineering, will take viewers on a journey of discovery from the world's tallest building to a bridge higher than the clouds. Along the way, the audience will witness how today's engineers are shaping the world of tomorrow. Contact Stan Mathew, P.Eng., 905-346-0990, ext. 250.

Engineering Design and Build Competition, Niagara College

To kick off NEM 2017, PEO's Niagara Chapter will hold its third annual Engineering Design and Build Competition. Students from various Niagara region secondary schools will compete in teams to design a plan and solve an engineering problem. Contact Stan Mathew, P.Eng., mathews@ae.ca, 905-346-0990, ext. 250.

NORTH BAY

Bridge-Building Competition, March 31

This competition is part of PEO's North Bay Chapter school outreach initiative that introduces real-life engineering issues in a manner that complements the curricula being taught in schools. This event also allows for one-on-one interaction between students and local engineers in a casual, fun-filled atmosphere. John Simmonds, P.Eng., john.simmonds11@outlook.com, 705-474-4667.

OAKVILLE

Scale an Innovation: Button-Making Event

PEO's Oakville Chapter will engage the community through the making and wearing of buttons with engineering slogans and the NEM logo. Participants will be encouraged to pick or make their own designs and then watch the entire button-making process.

OTTAWA

Canadian Space and Aviation Museum Engineering Challenge

Working individually or in groups, participants are challenged to build examples of real-life aviation or space-based vehicles and objects, which are evaluated on structure stability, mechanics and innovation. Contact Damien Letendre, P.Eng., opeo.edu@gmail.com, 613-808-6346.

Career Workshop, Carleton University and University of Ottawa

An open forum for engineering students and professional engineers to discuss the variety of engineering career opportunities. Contact Damien Letendre, P.Eng., opeo.edu@gmail.com, 613-808-6346.

Engineering Challenge, Carleton University and University of Ottawa

Drop-in engineering challenge where students will have set parameters and constraints to complete. Damien Letendre, P.Eng., opeo.edu@gmail.com, 613-808-6346.

Scale an Innovation: Button-Making Event

PEO's Ottawa Chapter will engage the community through the making and wearing of buttons with engineering slogans and the NEM logo. Participants will be encouraged to pick or make their own designs and then watch the entire button-making process.

QUINTE WEST

Bridge-Building and Airplane Propulsion Contests, Maranatha Church

Students will compete to build the strongest bridge that can take the maximum load before breakage. The airplane propulsion contest will engage students in flight mechanics and how to tweak the necessary parameters to achieve a maximum flight range. Contact Panch Yogeswaran, P.Eng., panchyoges@hotmail.com, 613-962-4386.

SARNIA

Engineering Discovery Day Lambton Mall

Although targeted to elementary school aged students, the public is also invited to participate in pick-up challenges hosted by PEO's Lambton Chapter, where simple objects are used to demonstrate a scientific prin-

ciple. All booths are geared towards hands-on participation. Participants are given a Discovery Day passport and when they visit a set number of booths they receive a small prize. Contact Maureen Wong, P.Eng., sarniaengweek@gmail.com, 519-339-2898.

Scale an Innovation: Button-Making Event

PEO's Lambton Chapter will engage the community through the making and wearing of buttons with engineering slogans and the NEM logo. Participants will be encouraged to pick or make their own designs and then watch the entire button-making process.

SAULT STE. MARIE

Sault Ste. Marie Engineering Month Event, March 4, Sault Ste. Marie Station Mall

PEO's Algoma Chapter is hosting the annual Engineering Day at the mall. This includes engineering displays from local businesses, a team math challenge, colouring contests, robotic displays and other exciting interactive displays. Contact Micheal Paciocco, EIT, mpaciocco@yahoo.ca, 705-949-1033, ext. 206.

Scale an Innovation: Button-Making Event

PEO's Algoma Chapter will engage the community through the making and wearing of buttons with engineering slogans and the NEM logo. Participants will be encouraged to pick or make their own designs and then watch the entire button-making process.

SUDBURY

Bridge-Building Competition Atlas Copco Theatre

Hosted by Dynamic Earth and PEO's Sudbury Chapter, the annual Bridge-Building Competition is open to students from grades 3 to 12. Teachers are encouraged to register their

entire class, integrate the competition into their classroom lessons, and make a day out of this event. Contact Jeff Shaw, P.Eng., 705-885-8419, jeffkshaw@gmail.com.

THUNDER BAY

Student Design Competition Nordmin Engineering Ltd.

Student teams are challenged with design, building and testing, and will have fun using a self-powered fan to blow a ping pong ball down a track as far as possible. Contact Phil Riegle, P.Eng., philip.riegle@tetrattech.com, 807-624-5458.

Research and Innovation Mall Event Intercity Shopping Centre

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

TORONTO

14th Annual Bridge-Building Contest Scarborough Town Centre

Hosted by PEO's Scarborough Chapter, students from grades 3 to 8 and their parents participate in learning about engineering. Contact Victor Lan, P.Eng., lanlin07@hotmail.com, 416-668-9810.

Dream Big East Toronto

All around the world, engineers are pushing the limits of ingenuity and innovation in unexpected, imaginative and amazing ways. Dream Big, a giant-screen film about engineering, will take viewers on a journey of discovery from the world's tallest building to a bridge higher than the clouds. Along the way, the audience will witness how today's engineers are shaping the world of tomorrow.

Dream Big York

All around the world, engineers are pushing the limits of ingenuity and

innovation in unexpected, imaginative and amazing ways. Dream Big, a giant-screen film about engineering, will take viewers on a journey of discovery from the world's tallest building to a bridge higher than the clouds. Along the way, the audience will witness how today's engineers are shaping the world of tomorrow.

Engineering Innovations Forum Toronto Botanical Garden

PEO's East Toronto Chapter will host a presentation called "Self-Driving Vehicles: Transformers of the Future." Contact Michael Flatt, P.Eng., mflatt@eiforum.ca.

Gears in Motion, Hillcrest Library

During the Gears in Motion event hosted by PEO's Willowdale-Thornhill Chapter, students will learn about the working of gears and piston actuators in a pneumatic engine by building a mockup of a working air propelled pneumatic engine. Contact Rana Tehrani Yekta, EIT, rana.ty@gmail.com.

WATERLOO

First Robotics Participation University of Waterloo

PEO's Waterloo Chapter will interact 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.

WINDSOR

Dream Big Windsor

All around the world, engineers are pushing the limits of ingenuity and innovation in unexpected, imaginative and amazing ways. Dream Big, a giant-screen film about engineering, will take viewers on a journey of discovery from the world's tallest building to a bridge higher than the clouds. Along the way, the audience will witness how today's engineers are shaping the world of tomorrow.