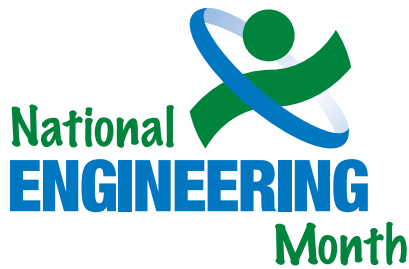


# [ NATIONAL ENGINEERING MONTH ]



## 2013 ONTARIO EVENT HIGHLIGHTS

National Engineering Month (NEM) is a Canada-wide, month-long celebration designed to raise awareness of engineering and engineering technology, and the contributions they make to our daily lives. This year, Ontario will be celebrating engineering and technology from March 1 through March 31. Through a partnership among Engineers Without Borders Canada, Professional Engineers Ontario (PEO) and the Ontario Association of Certified Engineering Technicians and Technologists (OACETT), over 140 volunteer-staged events will take place throughout the province, offering a great opportunity to have fun—whether you decide to volunteer or simply attend an event with your family. For more information on volunteer opportunities and an up-to-date listing of NEM Ontario events, visit <http://blogs.ewb.ca/nemontario/>, like our Facebook page and follow us on Twitter @nemontario.

---

### BRAMPTON

---

**6TH ANNUAL BRIDGE-BUILDING CHALLENGE March 17** PEO's Brampton Chapter hosts a bridge-building challenge for kids in the Peel Region in grades 5 to 10. Contact Desmond Gomes, P.Eng., at 905-951-5000, ext. 3537.

---

### BROCKVILLE

---

**5TH ANNUAL BRIDGE-BUILDING COMPETITION March 1 to March 31, Westminster Public School** PEO's Thousand Islands Chapter hosts its fifth annual bridge-building competition. Responsibility, perseverance, honesty and resilience are values practised by teams of up to four students, who will be given four weeks to design and construct their bridges. On testing day an engineer will evaluate the bridges. Contact John Ireland, P.Eng., at [john@ireland.ca](mailto:john@ireland.ca) or 613-283-1788.

---

### BURLINGTON

---

**ENGINEERING CHALLENGE: NATIONAL ENGINEERING MONTH CELEBRATION March 17, Burlington Art Centre** PEO's Hamilton-Burlington Chapter hosts an engineering challenge for high school students and university engineering students. Contact Raj Jain, PhD, P.Eng., at 905-592-0250.

---

### CHATHAM

---

**LOCAL AND PROVINCE-WIDE STUDENT ENGINEERING CHALLENGE March 2** PEO's Chatham-Kent Chapter hosts two impromptu design competitions for Lambton-Kent area schools: the junior division for grades 7 and 8 students; the senior division for high school students. The junior division will be part of the Province-wide Student Engineering Challenge. Students will be given a task and materials to design and construct their solution to a problem. Contact Juan Rincon, EIT, at 519-436-4600, ext. 2934.

**CHATHAM KENT CANSTRUCTION Downtown Chatham Centre** PEO's Chatham-Kent Chapter hosts a canstructure competition, in which

different community companies and institutions will participate. Contact Juan Rincon at 519-436-4600, ext. 2934.

---

### ETOBICOKE

---

**6TH ANNUAL ENGINEERING IDOL COMPETITION March 2, Ryerson University** PEO's Etobicoke Chapter hosts its sixth annual Engineering Idol competition, where teams from seven selected high schools will participate in an engineering task associated with the project "piezo electric power." Each team of four to six students with a teacher or supervisor will design and build a device using piezo electric technology that has an application to benefit society. Visit [www.engineeringidol.com](http://www.engineeringidol.com) or contact Richard Weldon, P.Eng., at 416-964-3246.

---

### INNISFIL

---

**BRIDGE-BUILDING COMPETITION March 2, Natyr Shore Secondary School** PEO's Simcoe-Muskoka and OACETT's Georgian Bay chapters will host a bridge-building competition for students in grades 5 through 8. Student teams from area schools will build their bridges before competition day from materials event organizers provide, following the "bridge construction guide." Each bridge will be judged for creativity, design, aesthetics, construction quality and breaking strength. Contact Trevor Bolt, P.Eng., at [tbolt@varcon.ca](mailto:tbolt@varcon.ca) or 705-735-0143, or Michael W. Simpson, P.Eng., at [michael.simpson@ieee.org](mailto:michael.simpson@ieee.org).

---

### KENORA

---

**MANAGING ENERGY RESOURCES IN THE 21ST CENTURY March 9, Best Western Hotel** PEO's Lake of the Woods Chapter invites young

# [ NATIONAL ENGINEERING MONTH ]

and established engineering and technology professionals as well as the general public to presentations from Ontario Power Generation management on hydro, Ontario energy programs, RETSCREEN software and green energy, and design/retrofit workshops from a certified energy manager and a certified measurement and verification professional. Contact Keith Loucks, P.Eng., at 807-468-4445 or northwindenergy@kmts.ca.

---

## LONDON

---

**BRIDGE-BUSTING COMPETITION Several dates in March, starting March 11, Boys and Girls Club** PEO's London Chapter hosts a bridge-building competition. Bridges will be built to withstand a load test. Come out during March break! Pizza included and all supplies will be provided. Contact Maha El-Birani, EIT, at 519-667-4140.

**NATIONAL ENGINEERING MONTH KICK-OFF LUNCHEON March 4, Convention Centre Hilton** PEO's London Chapter hosts the NEM Kick-Off Luncheon. John Braam, P.Eng. (city engineer), and Harold Browne, P.Eng., will give the keynote addresses. Topics will include the benefit of engineers getting involved with government to influence change, and finding solutions to problems for the future while ensuring safety remains paramount. Tickets \$35. Contact Western Regional Office for tickets at wro@peo.on.ca.

**GUIDING EXPLORING TECHNOLOGY –SCOUTING EXPLORING TECHNOLOGY 2013 (GETSET'13) March 2, Scouts Canada SWO Admin Centre, 531 Windermere Rd.** London's OACETT Chapter presents a fun day for 10- to 18-year-old youth members and non-members of guides/scouts, who will experience local engineering tech-

nology by participating in hands-on tech table displays, tech talks, off-site tech tours at partner locations and such tech tasks as a popsicle stick bridge-building contest. Contact Peter Nicholas, CET, at 519-878-0942 or penergy@rogers.com.

---

## MISSISSAUGA

---

**BRIDGE-BUILDING CHALLENGE March 2, Tomken Road School** PEO's Mississauga Chapter hosts a bridge-building challenge where Peel District School Board grades 7 and 8 students will design, construct and test bridges. Contact Amr Kaoud, P.Eng., at 647-271-9999.

**MATHEMATICS CHALLENGE March 24, Olive Grove School** PEO's Mississauga Chapter is designing math questions in the form of engineering problems that are to be solved by students. Students respond to the questions through remote clickers. Contact Amr Kaoud, P.Eng., at 647-271-9999.

---

## NEWMARKET

---

**2013 DESIGN CHALLENGE March 28, Newmarket High School** The Education Committee of PEO's York Chapter challenges grades 6 and 8 student teams to an engineering problem-solving challenge. Contact Paymon Sani at 416-804-6909 or education@peoyork.com.

---

## NIAGARA FALLS

---

**NIAGARA ENGINEERING WEEK LUNCHEON Club Italia** The Niagara OACETT Chapter will host a luncheon that brings together the Niagara engineering community, from industry

leaders and colleagues to engineering and technology students. This event raises money for a local student bursary program and includes presentations and an awards ceremony. To register, contact Jim Sorley, CET, at jim.sorley@npei.ca or 877-270-3938, ext. 6224.

---

## NORTH BAY

---

**BALSA WOOD BRIDGE-BUILDING COMPETITION March 1** PEO's North Bay Chapter challenges local students to build bridges using balsa wood. Prizes to be awarded for greatest weight-to-load ratio and for finish and build quality. Contact Luc Roberge, P.Eng., at 705-498-2428.

---

## OAKVILLE

---

**NEM 2013–ENGINEERING A SUSTAINABLE FUTURE March 2, 10:00 a.m. to 3:30 p.m., Holy Trinity Catholic Secondary School** PEO's Oakville Chapter is planning a full day of activities to celebrate National Engineering Month for students at local schools (all levels) in the Milton and Oakville areas. Activities will include a human interaction workshop and a future vehicles challenge.

---

## OSHAWA

---

**8TH ANNUAL BRIDGE-BUILDING CONTEST March 2, University of Ontario Institute of Technology** PEO's Lake Ontario Chapter invites all elementary school students (grades 4 to 8) from Durham Region School Board to participate in a bridge-building contest. Students will build a popsicle stick bridge using no more than 200 popsicle sticks to span 500 mm. Contact Derek Van Ee, P.Eng., at 416-659-2222.

sticks to span 500 mm. Contact Derek Van Ee, P.Eng., at 416-659-2222.

---

## OTTAWA

---

### ENGINEERING OUTREACH EVENTS

**March 4, Canada Science and Technology Museum; March 9, Space and Aviation Museum; March 10, Canadian Museum of Civilization**

PEO's Ottawa Chapter is hosting engineering outreach events for kids under 14 to give them a better appreciation of engineering, how to apply science and math, and how engineering benefits our everyday lives. Contact Pierre Legault, P.Eng., at 613-996-9873.

### UNIVERSITY OF OTTAWA OUTREACH EVENT March 6, University of

**Ottawa** PEO's Ottawa Chapter is hosting an outreach event for engineering students to help them understand professional engineering accreditation. The event will also be a mentoring opportunity. Contact Pierre Legault, P.Eng., at 613-996-9873.

---

## OXFORD MILLS

---

### 3RD ANNUAL BRIDGE-BUILDING COMPETITION March 1 to March

**31, Oxford on Rideau Public School** PEO's Thousand Islands Chapter hosts its third annual bridge-building competition. Responsibility, perseverance, honesty and resilience will be values practised by teams of up to four students who will design, construct and test their bridges. Students will be given four weeks to design and construct their bridges and on the testing day an engineer will evaluate them. Contact John Ireland, P.Eng., at john@ireland.ca or 613-283-1788.

---

## PEMBROKE

---

### SPACECRAFT THRUST STRUCTURE-BUILDING COMPETITION March 6,

**1 p.m. to 4 p.m., Pembroke Mall, Ottawa Valley** PEO's Algonquin Chapter challenges grades 5 to 7 students in a first-ever spacecraft thrust structure building competition. Contact Thomas A. Moir, P.Eng., at 613-687-6125.

---

## PETERBOROUGH

---

### ENGINEERING MONTH CHALLENGE

**March 5, Evinrude Centre** The Peterborough PEO and OACETT chapters and the Institute of Electrical and Electronic Engineers (IEEE) invite area students to participate in the design and construction of a catapult to launch a capsule into orbit. Contact Dan Manns, P.Eng., at daniel.manns@ge.com or Diane O'Heron at d\_oheron@hotmail.com or 705-779-7294.

---

## SARNIA

---

### IMPROMPTU DESIGN CHALLENGE

**March 30, Lambton College, 1457 London Road** PEO's Lambton Chapter hosts a design and building challenge for local high school students at Lambton Mall. Students will be told what they are building once they arrive at the event. Contact Richard Hui, P.Eng., at 519-344-6868.

---

## SAULT STE. MARIE

---

### SAULT STE. MARIE ENGINEERING MONTH EVENT March 17 to 23,

**Sault Ste. Marie Station Mall** PEO's Algoma Chapter hosts a series of engineering outreach activities in various local schools throughout the week leading up to the annual engineering day on March 23 at the mall. This will

include engineering displays from local businesses, a team math challenge, colouring contests, robotics displays and other exciting interactive displays. Contact Michael Paciocco, EIT, at 705-575-7379.

---

## SCARBOROUGH

---

### POPSICLE STICK BRIDGE-BUILDING COMPETITION March 2, Scarbor-

**ough Civic Centre** PEO's Scarborough Chapter hosts a popsicle stick bridge-building competition to be held in two groups: the junior division is grades 3 to 6; the senior division is grades 7 and 8. Bridges are to be constructed of popsicle sticks and must weigh less than 250 grams. The bridges will be judged on creativity, construction quality and technique, aesthetics and more. To register, contact Narayanapillai Asogan, P.Eng., at 416-901-5266 or nasogan@hotmail.com.

### HANDS-ON SCIENCE FAIR & TECHNOLOGY EXHIBITS

The Toronto East and Central PEO and OACETT chapters invite students to participate in various interactive exhibits that progressively teach more complex scientific principles and how they are applied in the real world through engineering. Contact Pasha Mohammed, C.Tech, at 416-820-1600 or abbupasha@yahoo.com.

---

## SMITH FALLS

---

### 9TH ANNUAL BRIDGE-BUILDING COMPETITION March 1 to March 31,

**Duncan J. Schoular Public School** PEO's Thousand Islands Chapter hosts its ninth annual bridge-building competition. Responsibility, perseverance, honesty and resilience will be practised by teams of up to four students who will design, construct and test their

# [ NATIONAL ENGINEERING MONTH ]

bridges. Students will be given three weeks to design and construct their bridges and, on the testing day, an engineer will evaluate them. Contact John Ireland, P.Eng., at john@ireland.ca or 613-283-1788.

---

## SUDBURY

---

### ROBOT-BUILDING COMPETITION

**March 6, 10 a.m. to 3 p.m., Cambrian College** OACETT's Sudbury Chapter challenges students from Cambrian College and College Boreal in its first robot-building competition. Contact Andrew Dryland, CET, at 705-560-5555.

---

## THUNDER BAY

---

### 3RD ANNUAL CONFEDERATION COLLEGE STUDENT TECHNOLOGY SYMPOSIUM CONFEDERATION COLLEGE

The Thunder Bay OACETT Chapter and the Confederation College Student Engineering Technician/Technology Association invite students to attend a symposium on technology topics related to their areas of study. Topics will include architectural, civil, construction, electronics, instrumentation, environmental and mining. There will be around five hours with four sessions of 12 speakers and a celebratory networking dinner. Contact Bruce Elliot, CET, at 807-475-6366 or Bruce.Elliot@confederationc.on.ca.

---

## TIMMINS

---

### NATIONAL ENGINEERING MONTH

**EVENTS Grade 5 Popsicle Bridge Competition** PEO's Porcupine-Kapuskasing Chapter will host a presentation on bridges and structural design for grade 5 students, who will then design and build their own popsicle stick bridge within certain criteria and lim-

ited materials over two weeks. The group with the strongest bridge will be invited to the NEM Dinner Event.

### SOFTWARE ENGINEERING CONVENTION (BY SCIENCE TIMMINS)

In collaboration with Science Timmins, PEO's Porcupine-Kapuskasing Chapter will host an activity for students from grades 5 through 12, who will give a presentation about what they've learned about computer software and network technology. The winners of the convention will be invited to the NEM Dinner Event.

**NEM DINNER EVENT** Executives, engineers, post-secondary students and the competition/convention winners are invited to attend this dinner party. The event will be hosted at the Porcupine Dante Club where a local guest speaker in the engineering field will give a presentation about new or recent engineering projects occurring in the region.

---

## TORONTO

---

### WATER FOR THE WORLD (WFW)

**2013 March 1 to March 31** The classic WFW workshops are back in 2013 as a way to engage youth, our future innovators of global change, in National Engineering Month. Along with the workshops that will be held the week of March 4 to 8, make sure to look out for equally engaging pre and post activities that will tackle theory and application and surely get the creative juices flowing. Contact Arashdeep Bains at a\_bains07@hotmail.com.

### 10TH ANNUAL FRENCH SCHOOLS BRIDGE-BUILDING COMPETITION

**March 4, 9 a.m. to 2 p.m., Jeanne Lajoie Elementary School** The Design Challenge-Construct a Bridge Group invites teams of grades 5 and 6 French-language students to construct bridges

using supplied K'NEX or LEGO in one hour with the least amount of material (400 grams maximum) to withstand the highest load at mid span. Contact Mervat Rashwan, P.Eng., at 905-763-2745 or mervat.sil@rogers.com.

### 10TH ANNUAL YORK REGION BRIDGE-BUILDING COMPETITION

**March 31, St. Theresa of Lisieux Catholic High School, 230 Shaftbury Avenue, Richmond Hill** Grades 5 and 6 students from all York Region schools are asked to construct bridges using supplied K'NEX or LEGO in one hour with the least amount of material (400 grams maximum) to withstand the highest load at the mid span. Contact Mervat Rashwan, P.Eng., at 905-763-2745 or mervat.sil@rogers.com.

---

## WINDSOR

---

### WINDSOR ESSEX ENGINEERING

**WEEK** The Windsor-Essex Engineering Week Committee presents a poster competition, a high school design competition, events at Canada South Science City, and an awards presentation luncheon. Awards presented at the luncheon include Technologist of the Year, Engineer of the Year and two engineering scholarships valued at \$500 each. Contact Pamela Brydges, CET, at 519-966-2250 or Pam.Brydges@stantec.com. Σ