

NATIONAL ENGINEERING WEEK



2008 Ontario Event Highlights

National Engineering Week will take place February 23 to March 2, 2008.

In Ontario, this week will feature dozens of activities for all ages. It's 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-the-minute calendar of events, visit www.engineeringweek.on.ca. Watch for the NEW 2008 supplement appearing Thursday, February 21 in the Ontario edition of *The Globe and Mail*.

Barrie

5th Annual Simcoe County Mousetrap Vehicle Challenge

February 28, Georgian College Gym
OACETT's Georgian Bay Chapter presents its Mousetrap Vehicle Challenge, where teams of local grades 7 and 8 students design, build and test cars that run solely on the power of a single mousetrap. Contact Stephen Morley, CET, at 905-936-3968.

Belleville

6th Annual Popsicle Stick Bridge-Building Competition

PEO's Quinte Chapter challenges students in grades 4 to 12 to construct bridges using only 100 popsicle sticks and white glue. Built ahead of time, bridges will be tested to destruction with the PEO Thousand Islands Chapter's Bridge Buster. Contact Heide-Marie Ross, P.Eng., at 613-392-2811, ext. 4829.

Burlington

15th Annual Halton Engineering Challenge

March 1, John T. Tuck Public School
PEO's Hamilton Chapter challenges local grades 7 and 8 students to design and build a robotic arm that transports springs of different sizes and shapes from one point to another. For more information, contact Bernard Amyot, P.Eng., at 905-662-7921.

Chatham

6th Annual Impromptu Design Competition

March 1, Chatham-Kent Secondary School
PEO's Chatham-Kent Chapter hosts an impromptu design competition for area elementary and high schools. Students will be given a task and materials to design and construct their solution to a problem. Contact Angela Haste, P.Eng., at 519-436-4600, ext. 2049.

Cornwall

8th Annual Popsicle Stick Bridge-Building Competition

February 23, Cornwall Square, Main Concourse
PEO's Upper Canada Chapter hosts a popsicle stick bridge-building competition for primary and secondary student teams. Instruction and building packages will be distributed to the teams several weeks before the event. Contact John St. Marseille, P.Eng., at 613-933-5602.

Kingston

8th Annual Popsicle Stick Bridge-Building Competition

March 1, Queen's University, Ellis Hall
PEO's Kingston Chapter challenges local elementary school students as well as adults to construct the strongest bridge possible using only 100 popsicle sticks and white glue. Contact Brenden MacKinnon, P.Eng., at 613-384-2713.

Engineer Build Competition

Students from Queen's University, Royal Military College and St. Lawrence College compete in a catapult design

contest. Contact Jonathan Hordo at 613-533-6008.

High School Outreach

The Engineering Student Society invites high school students enrolled in physics or science courses to visit Queen's for a day. Contact Jonathan Hordo at 613-533-6008.

Kitchener

Drop-in K'NEX Construction Workshops

12:00 p.m. to 4:00 p.m., Saturday, February 23; Sunday, February 24; Saturday, March 1; Sunday, March 2, Waterloo Regional Children's Museum
Engineering and technology volunteers help children six and over to create wonderful structures using K'NEX. Special features include a bridge-building challenge. **Volunteers are needed to make this workshop successful. To sign up, visit www.engineeringweek.on.ca and click on "Volunteer Opportunities."**

London

Drop-in K'NEX Construction Workshops

10:00 a.m. to 5:00 p.m., Saturday, February 23 and Sunday, February 24; daily from Tuesday, February 26 through Sunday, March 2; also 5:00 p.m. to 8:00 p.m. on Friday, February 29, London Regional Children's Museum
Engineering and technology volunteers help children six and over to create wonderful structures using K'NEX. Special features include a bridge-building challenge and demonstrations by Engineers Without Borders. **Volunteers are needed to make this workshop successful. To sign up, visit www.engineeringweek.on.ca and click on "Volunteer Opportunities."**

Paper Airplane Competition

1:00 p.m. to 3:00 p.m., Saturday, February 23, London Boys' and Girls' Memorial Club, 184 Horton St.

PEO's London Chapter offers the perfect opportunity to learn more about flight and enable participants to compete with their pet design. Contact Syd Van Geel, P.Eng., at 519-433-9796.

Engineering Week Luncheon

11:00 a.m. to 2:00 p.m., February 25,
Hilton Hotel

PEO's London Chapter hosts a luncheon with city engineer Ron Standish, P.Eng., giving the keynote address. Seating is limited, so reserve today! Members and public welcome. Tickets: \$30 per person. Contact Ian Cheng, P.Eng., at 519-652-2104.

Guiding Exploring Technology—Scouting Exploring Technology (GETSET)

8:30 a.m. to 5:00 p.m., March 1, London Scout HQ, 531 Windermere Rd.

OACETT's London Chapter presents a hands-on technology day for Guides and Scouts with interactive displays, technical demonstrations, indoor and outdoor challenges and a bridge-busting competition, co-hosted with PEO's London Chapter. Contact Peter Nicholas, CET, at 519-878-0942.

Western Engineering Bonanza

February 21, Spencer Engineering Building, University of Western Ontario

The Undergraduate Engineering Society invites local high school students to attend presentations and demonstrations of various aspects of the engineering disciplines and student groups. The day concludes with a hands-on design competition. Contact Vincey Chui at 519-639-8988.

Mississauga

Bridge-Building Contest

9:00 a.m., March 1, Tomken Road Middle School

The Mississauga and Brampton chapters of PEO invite grades 7 and 8 students to design, construct and test bridges. Contact Khaled El-Rahi, P.Eng., at 416-677-3905.

Newmarket

Design Challenge 2008

4:00 p.m. to 8:00 p.m., February 28, Newmarket High School

The Education Committee of PEO's York Chapter challenges grades 7 and 8 student teams from area public and separate schools to build an innovative container for sports athletes that will maintain the fluid temperature as cold as possible yet be designed with the least

cost and smallest outside dimensions. Contact Lolita Chakravarti, P.Eng., at 905-737-9869.

Niagara Falls

National Engineering Week Activities

The Niagara Engineering Week Committee (consisting of PEO, OACETT and CEO chapter representatives) invites the engineering community to a NEW luncheon, where awards of merit and scholarships will be presented to students. There will also be a technical forum and classroom presentations for grades 7 and 8 students, made by teams of engineers and technologists. Contact Cary Clark, P.Eng., at 905-680-3716.

North Bay

Balsa Wood Bridge-Building Contest

9:00 a.m. to 3:00 p.m., March 1, Commerce Court Campus, Canadore College

PEO's North Bay Chapter challenges local students to build bridges using six pieces of balsa wood. Prizes to be awarded for greatest weight-to-load ratio and for finish and build quality. Contact John Simmonds, P.Eng., at 705-474-4667.

Oakville

Engineering Career Night

7:00 p.m. to 9:00 p.m., February 27, Abbey Park School

PEO's Oakville Chapter presents a showcase for high school students focusing on the theme of climate change, the role of engineering and the field's contribution toward solving this global problem. Contact Donald Belyea, P.Eng., at 905-339-0059, ext. 364.

Oshawa

3rd Annual Popsicle Stick Bridge-Building Competition

February 23, Ontario Institute of Technology, Market Place Cafeteria
OACETT's Durham Chapter and PEO's Lake Ontario Chapter invite grades 6 to 8 students from local school boards to participate in a bridge-building contest. Contact Bob van den Berg, CET, at 905-391-6107.

Engineering Design Challenge

Ontario Institute of Technology

The Engineering Student Society invites high school students to create elastic band cars built from certain materials to be tested during the event. Contact Mary Vilorio at uoitengsoc.vpinternal@gmail.com.

Ottawa

Drop-in K'NEX Construction Workshops

10:00 a.m. to 4:00 p.m. daily Saturday, February 23 to Sunday, March 2, Canada Science and Technology Museum

Engineering and technology volunteers help children six and over to create wonderful structures using K'NEX. Special features include a bridge-building challenge and demonstrations by Engineers Without Borders. Volunteers are needed to make this workshop successful. To sign up, visit www.engineeringweek.on.ca and click on "Volunteer Opportunities."

Ottawa Engineering Challenge 2008

February 26, Canada Science and Technology Museum

PEO's Ottawa Chapter, together with the National Research Council, invite engineers from across the capital region to collaborate with grades 4 to 6 teachers in challenging teams of students to design and construct a mechanically powered launcher prototype. Contact Sucha Mann, P.Eng., at 613-591-3002.

Engineering Week 2008 at Carleton

The Carleton University Engineering Student Society hosts a mall display, high school outreach, engineering design competitions, and a fourth-year project fair. Contact Cindy Coleman at 613-520-3616.

University of Ottawa Celebrates Engineering Week

The Engineering Students' Society hosts a whole week of activities to promote engineering to children and youth. Hands-on activities will be preceded by an informative presentation on the nature of engineering, geared to show how engineering corresponds to everyday lives. Contact Logan Maley at 613-562-5800, ext. 6188.

Pembroke

Popsicle Stick Bridge-Building Contest

March 1, West End Mall

PEO's Algonquin Chapter hosts a bridge-building contest for grades 6 to 8 students, whom engineers have visited in the classroom, to encourage team participation. Prizes will be awarded for the best strength-to-mass ratios. Contact Lance Goodick, P.Eng., at 613-584-9962.

Peterborough

Engineering and Technology Challenge

9:00 a.m., February 28, Evinrude Centre

PEO and OACETT Peterborough chapters invite area high school students to participate in a design/build competition. Each team's projects will be tested to ensure they meet the specified criteria, and compared as to how well they perform relative to other projects. Contact Jim Bailey, P.Eng., at 705-652-1728.

Pickering

Mall Display

Pickering Town Centre

During Engineering Week, members of PEO's Lake Ontario Chapter and OACETT's Durham Chapter will staff informative, interactive displays, including K'NEX for kids to build structures. Contact Derek Van Ee, P.Eng., at 905-686-5035.

Richmond Hill

5th Annual Design Challenge

10:00 a.m. to 4:30 p.m., February 23, Académie de la Moraine, 13200 Yonge St.

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., ing., at 905-763-2745.

Sarnia

4th Annual Popsicle Stick Bridge-Building Contest Finale

11:00 a.m., March 1, Lambton Mall

PEO's Lambton Chapter hosts a bridge-

building challenge for local grades 5 and 7 students at Lambton Mall. Bridges will be evaluated on deflection versus mass. Contact David Murray, P.Eng., at 519-869-6683.

Sault Ste. Marie

5th Annual National Engineering Week Celebration

February 23 to March 2, Station Mall

PEO's Algoma Chapter hosts a math challenge, an egg drop competition, and the Display of Ingenuity during Engineering Week. Contact David Spacek, P.Eng., at 705-942-2070.

Scarborough

5th Annual Popsicle Stick Bridge-Building Contest

February 23, Council Chamber of Scarborough Civic Centre

PEO's Scarborough Chapter hosts a bridge-building competition for grades 4 to 8 students from local schools. Bridges must weigh less than 300 grams to determine the maximum load-bearing capability. Contact Jason Ettore, EIT, at 416-767-0246.

Hands-On Science Fair & Technology Exhibits

March 1, Malvern Mall

OACETT's Toronto East and Central chapters invite students to participate in various interactive exhibits that teach progressively complex scientific principles learned in class and show how they are applied in the real world through engineering. Contact David Crowder, CET, at 416-497-8600.

Sudbury

Drop-in K'NEX Construction Workshops

10:00 a.m. to 4:00 p.m. on Saturday,

February 23; Sunday, February 24;

Saturday, March 1; Sunday, March 2,

Science North

Engineering and technology volunteers help children six and over to create wonderful structures using K'NEX. Special features include a bridge-building challenge. **Volunteers are needed to make**

this workshop successful. To sign up, visit www.engineeringweek.on.ca and click on "Volunteer Opportunities."

Thunder Bay

NEW 2008 Challenge/Lakehead University Lab Tours

Lakehead University's Faculty of Engineering invites grades 7 and 8 students to participate in team design competitions in chemical, civil, electrical and mechanical engineering and to visit engineering labs and see demonstrations of engineering student projects. Contact Dr. Meilan Liu, P.Eng., at 807-343-8952.

Toronto

Drop-in K'NEX Construction Workshops

11:00 a.m. to 4:00 p.m. on Saturday,

February 23; Sunday, February 24;

Saturday, March 1; Sunday, March 2,

Ontario Science Centre

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Public Library Career Talks

Engineering volunteers will give special career presentations and demonstrations to elementary school classes at branches of the Toronto Public Library during Engineering Week. **To volunteer, please fill out the online volunteer form at www.engineeringweek.on.ca and click on "Volunteer Opportunities."**

2008 Engineering Innovations Forum

6:00 p.m. to 10:00 p.m., February 28,

Ontario Science Centre

This year's theme, "Emerging Engineering Innovations in Health Care," includes discussion of biomaterials, medical instrumentation and delivery of health care. Contact André Rudnicki, P.Eng., at 416-392-3009.

High School Presentations

Members of PEO's Etobicoke Chapter make presentations at local high schools to discuss what careers in engineering involve, and to demonstrate through hands-on activities some of the applications of engineering principles used to solve various problems. Contact Richard Weldon, P.Eng., at 416-964-3246.

Engineering Idol

PEO's Etobicoke Chapter hosts a game-style engineering project, where three area high schools will be assigned the same engineering task associated with a renewable energy resource. Contact Richard Weldon, P.Eng., at 416-964-3246.

Windsor

Celebrating Engineering Week

The Windsor-Essex Engineering Week Committee presents a high school design competition, a poster competition, workshops at South Science City and an awards luncheon where Engineering Week scholarships and Engineer and Technologist of the Year awards will be presented. Contact Peter Bzuik, P.Eng., at 519-796-7827.

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