



2009 ONTARIO EVENT HIGHLIGHTS

National Engineering Month will take place across Canada, with each province choosing a week to celebrate engineering. In Ontario, the week (February 28 to March 8) 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 a more complete calendar of events, visit www.engineeringmonth.on.ca. Watch for the 2009 supplement appearing Thursday, February 26 in the Ontario edition of *The Globe and Mail*.

BELLEVILLE

7TH ANNUAL POPSICLE STICK BRIDGE-BUILDING COMPETITION

9 a.m., February 28, St. Theresa Catholic Secondary School
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 613-398-8492.

BRAMPTON

POPSICLE STICK BRIDGE-BUILDING COMPETITION 9 a.m., February 28, Calderstone Middle School

PEO's Brampton Chapter hosts a bridge-building competition for grades 7 and 8 students. Judging will be based on a combination of the students' understanding of their design and the actual destruction of the bridge using a bridge tester jig. Contact Dan Lee, P.Eng., at 905-455-5120.

BROCKVILLE

POPSICLE STICK BRIDGE-BUILDING CONTESTS Members of PEO's Thousand Islands Chapter visit local area schools to promote the engineering profession, discuss engineering principles and conduct bridge-building competitions. Contact John Ireland, P.Eng., at 613-283-1788.

CHATHAM

7TH ANNUAL IMPROMPTU DESIGN COMPETITION 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 Shane McDowell, P.Eng., at 519-436-4600, ext. 2842.

CORNWALL

9TH ANNUAL POPSICLE STICK BRIDGE-BUILDING COMPETITION

February 28, Cornwall Square, Main Concourse

PEO's Upper Canada Chapter hosts a popsicle stick bridge-building competition for primary and secondary student teams. Instructions and building packages will be distributed to the teams several weeks before the event. Spectators welcome! Contact Benjamin de Haan, P.Eng., at 613-933-5602.

ETOBICOKE

MIDDLE SCHOOL PRESENTATIONS

Members of PEO's Etobicoke Chapter make presentations at area middle 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.

2ND ANNUAL ENGINEERING IDOL COMPETITION February 28

PEO's Etobicoke Chapter hosts a game-style engineering project, where six area high schools will be assigned the same engineering task associated with energy conservation in houses. Visit www.engineeringidol.com or contact Richard Weldon, P.Eng., at 416-964-3246.

GUELPH

MALL DISPLAY Stone Road Mall

Engineering students from the University of Guelph staff different activities, including balloon rockets, topsy-turvy towers, extendable robotic arms, balloon rockets and a simulation race car. Contact Gregory Duggan at 519-824-4120, ext. 58549.

KINGSTON

9TH ANNUAL POPSICLE STICK BRIDGE-BUILDING COMPETITION

February 28, Queen's University, Ellis Hall

PEO's Kingston Chapter challenges local elementary school students as

NATIONAL ENGINEERING WEEK

well as adults to construct the strongest bridge possible using only 100 popsicle sticks and white glue from the supplied kit. Contact Doug Hamilton, P.Eng., at 613-389-9628.

OPEN HOUSE DAY AT THE INTEGRATED LEARNING CENTRE

Queen's University

The Engineering Student Society invites local middle and high school students to take part in mini-design projects, education presentations and various other activities designed to promote the importance and value of engineering. Contact Emily Mattiussi at 613-533-6008.

KITCHENER

DROP-IN K'NEX CONSTRUCTION WORKSHOPS 12 p.m. to 4 p.m.,

Saturday, February 28, Sunday, March 1, Saturday, March 7 and Sunday, March 8, 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.engineeringmonth.on.ca and click on Volunteer Opportunities.

LONDON

DROP-IN K'NEX CONSTRUCTION

WORKSHOPS 10 a.m. to 5 p.m. Saturday, February 28, Sunday, March 1, then daily from Tuesday, February 24 through Sunday, March 8, also 5 p.m. to 8 p.m. on Friday, March 6, 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. Volunteers are needed to make this workshop successful. To sign up, visit www.engineeringmonth.on.ca and click on Volunteer Opportunities.

ENGINEERING WEEK LUNCHEON

PEO's London Chapter hosts a luncheon with city engineer Pat McNally, 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 p.m., February 28, London Scout HQ, 531 Windermere Rd.

The London OACETT 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, C.E.T., at 519-878-0942.

WESTERN ENGINEERING BONANZA 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 Dustin Hughes at 519-661-3609.

MISSISSAUGA

BRIDGE-BUILDING CONTEST

9 a.m., February 28, Tomken Road Middle School

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

NEWMARKET

DESIGN CHALLENGE 2009 The Education Committee of PEO's York Chapter challenges grades 7 and 8 student teams to build an innovative container for sports athletes that will maintain the fluid temperature as cold as possible, retain the fluid and yet be designed

with the least cost and smallest outside dimensions. Contact Ed Fung, P.Eng., at 888-924-9995.

NIAGARA FALLS

NATIONAL ENGINEERING WEEK

ACTIVITIES The Niagara Engineering Week Committee invites the engineering community to a NEW luncheon, where awards of merit and scholarships are to 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 March 6

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

16TH ANNUAL HALTON ENGINEERING CHALLENGE March 7, St. Joseph's School, 477 Warminster Dr.

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. Contact Bernard Amyot, P.Eng., at 905-684-1938.

WATER FOR THE WORLD Abbey Park School

PEO's Oakville Chapter presents a showcase for high school students focusing on presenting solutions and approaches to water issues across the globe and increasing awareness of how engineering and technology can play a role in solving them. Contact Lucie Brouillette, P.Eng., at 905-845-1913.

OSHAWA

4TH ANNUAL POPSICLE STICK BRIDGE-BUILDING COMPETITION February 28, University of Ontario Institute of Technology, Market Place Cafeteria

The Durham OACETT chapter invites grades 6 to 8 students from local school boards to participate in a bridge-building contest. Contact Bob van den Berg, C.E.T., at 905-391-6107.

OTTAWA

DROP-IN K'NEX CONSTRUCTION WORKSHOPS 10 a.m. to 4 p.m. daily Saturday, February 28 to Sunday, March 8, 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. Volunteers are needed to make this workshop successful. To sign up, visit www.engineeringmonth.on.ca and click on Volunteer Opportunities.

OTTAWA ENGINEERING CHALLENGE 2009 February 27, Canada Science and Technology Museum

PEO's Ottawa Chapter, together with National Research Council Canada and engineers from across the capital region, collaborate with grades 4 to 7 teachers in challenging teams of students to design and construct a disaster relief operation prototype. Contact Kate McLaughlin at 613-993-9284.

ENGINEERING WEEK 2009 AT CARLETON The Engineering Student Society hosts design competitions for grades 4 and 5, grades 7 and 8 and grades 10 and 11 students in the Ottawa public school system. Contact Christa Sexauer at 613-265-6654.

UNIVERSITY OF OTTAWA CELEBRATES ENGINEERING WEEK The Engineering Student 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 10 a.m., March 3, 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 10 a.m., March 3, Evinrude Centre

PEO's and OACETT's Peterborough chapters and the Institute of Electrical and Electronics Engineers invite area high school students to participate in a design/build competition. Each team's project will be tested to ensure it meets the specified criteria and compared as to how well it performs relative to other projects. Contact Clarence Klassen, P.Eng., at 705-743-1076.

RICHMOND HILL

6TH ANNUAL DESIGN CHALLENGE 11 a.m. to 4:30 p.m., March 3, 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

5TH ANNUAL POPSICLE STICK BRIDGE-BUILDING CONTEST FINALE 11 a.m., March 7, Lambton College, 1457 London Rd.

PEO's Lambton Chapter hosts a bridge-building challenge for local grades 5 and 7 students. Bridges will be evaluated on deflection versus mass. Contact David Murray, P.Eng., at 519-491-0275.

1ST ANNUAL IMPROMPTU DESIGN COMPETITION March 7, Lambton College Gym

PEO's Sarnia-Lambton Chapter hosts an impromptu design competition for grades 9 to 11 students in Lambton County. Students will be given a task and materials to design and construct

their solution to a problem. Contact Amy Wettges, EIT, at 519-541-9732.

SAULT STE. MARIE

7TH ANNUAL NATIONAL ENGINEERING WEEK CELEBRATION February 28 to March 8, Station Mall

PEO's Algoma Chapter hosts a math challenge, an egg drop competition and the Display of Ingenuity during Engineering Week. Contact François Nzotungwanimana, EIT, at 705-946-8130, ext. 8123.

SCARBOROUGH

6TH ANNUAL POPSICLE STICK BRIDGE-BUILDING CONTEST 11 a.m., February 28, Council Chamber of Scarborough Civic Centre

PEO's Scarborough Chapter hosts a bridge-building competition for grades 3 to 8 students from local schools. Bridges must weigh less than 250 grams to be tested to destruction in order to determine the maximum load-bearing capability. To register, please contact Tom Fernandes, P.Eng., at bridge@peoscarborough.ca.

HANDS-ON SCIENCE FAIR & TECHNOLOGY EXHIBITS OACETT's Toronto East and Central chapters invite students to participate in various interactive exhibits that build upon each other to teach progressively more complex scientific principles learned in class and show how they are applied in the real world through engineering. Contact Pasha Mohammed, C.Tech., at 416-820-1600.

SUDBURY

DROP-IN K'NEX CONSTRUCTION WORKSHOPS 10 a.m. to 4 p.m., Saturday, February 28, Sunday, March 1, Saturday, March 7 and Sunday, March 8, 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.engineeringmonth.on.ca and click on Volunteer Opportunities.

NATIONAL ENGINEERING WEEK

THUNDER BAY

2009 CHALLENGE & TOUR March 5
PEO's Lakehead Chapter and Lakehead University's faculty of engineering invites grades 5 through 8 students to participate in team design competitions in chemical, civil, electrical and mechanical engineering, to visit practising engineers and to tour engineering labs and see demonstrations of engineering student projects. Contact Meilan Liu, PhD, P.Eng., at 807-343-8952.

TIMMINS

ENGINEERING WEEK IN ONTARIO DINNER Dante Club, 162 Cedar St. S.
PEO's Porcupine-Kapuskasing Chapter hosts dinner for grades 5 to 12 student winners of Science Timmins, PEO members, government officials and students from Northern College. Contact Ryan Hill, EIT, at 705-360-1899.

TORONTO

DROP-IN K'NEX CONSTRUCTION WORKSHOPS 11 a.m. to 4 p.m., Saturday, February 28, Sunday, March 1, Saturday, March 7 and Sunday, March 8, Ontario Science Centre
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.engineeringmonth.on.ca and click on Volunteer Opportunities.

ENGINEERS WITHOUT BORDERS AT TORONTO PUBLIC LIBRARIES The Toronto Public Libraries in partnership with Engineers Without Borders (EWB) present a series of interactive workshops as part of EWB's School Outreach Program. To volunteer, visit www.engineeringmonth.on.ca and click on Volunteer Opportunities. Contact Julia Melnikova at 416-223-2261, ext. 225.

2009 ENGINEERING INNOVATIONS FORUM 6 p.m. to 10 p.m., March 4, Ontario Science Centre, 770 Don Mills Rd.

This year's theme, Engineering Innovations in Intelligent Transportation Systems, includes discussion of air traffic control, subway train control and expressway traffic optimization. Contact Paul Annis, C.Tech., at 416-369-0137, ext. 189.

5TH ANNUAL DESIGN CHALLENGE CONSTRUCT A BRIDGE COMPETITION 9 a.m., March 3, Jeanne-Lajoie Elementary School, 150 Carnforth Rd.

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 the mid-span. Contact Mervat Rashwan, P.Eng., ing., at 905-763-2745.

DESIGNAPOLOOZA University of Toronto, Sanford Fleming Building
The University of Toronto Engineering Society invites grades 1 to 8 students from local schools to join in an exciting afternoon of design challenges. Contact David Cheung at hiskule@skule.ca.

WINDSOR

CELEBRATING ENGINEERING WEEK
The Windsor-Essex Engineering Week Committee presents a high school design competition, a poster competition, workshops at Canada South Science City and an awards luncheon, where Engineering Week scholarships and Engineer and Technologist of the Year will be presented. Contact Clarence Jubenville, P.Eng., at 519-966-2250.

For a complete and up-to-date listing of NEW events, visit www.engineeringmonth.on.ca and click on Event Calendar.

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