



## Happy Holiday, Merry Christmas and Happy New Year 2019

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Visit Our Website at: [www.algoma.on.ca](http://www.algoma.on.ca)

## Ongoing Event

### VEX Robotics

The high school VEX robotics competition event was held on Friday, December 14 (4pm-8pm) and Saturday, December 15 (8am-5pm), and student built showcase robots to compete in VEX Turning Point (<https://youtu.be/CDDGBcs0TFM>).

The elementary VEX IQ event is on Friday, January 11 (4pm-8pm) and Saturday, January 12 (8am-5pm), 2019, where students will show off their robots as they compete in VEX IQ Next Level ([https://youtu.be/IJML1\\_JNCLI](https://youtu.be/IJML1_JNCLI)). These events are running at the Sault College Health and Wellness Center.

These events provide a great opportunity for engineering professionals to participate as judges and officials. Also,

these roles allow for interacting with the students, discussing their build process and inspecting their robots both on and off the field. If you are interested in volunteering for either event, please contact Mark Carlucci at [mark@adsbvexrobotics.com](mailto:mark@adsbvexrobotics.com) for more information.

## Activity Report

### National Engineering Month 2018

Professional Engineers Ontario (PEO) Algoma Chapter, and the Ontario Association of Certified Engineering Technologists and Technicians (OACETT) hosted our 14th annual National Engineering Month (NEM) activities on March 17, 2018 at the Station Mall.

Our events this year included Math Competition, which drew over 40 students from elementary and secondary schools across the region to compete, as well as displayed by local partners Algoma University, Sault College and VEX Robotics teams from across the city.

New activities this year included a demonstration of the Bridge Building competition to take place later in the year in order to entice students to compete, as well as information on Algoma University and Sault College's STEM offerings.

An estimated 350 people from across the Algoma region attended this year's event.



VEX Robotics in National Engineering Month (Photo: James Hopkin/SooToday)



Children in NEM activities: Catapult challenge and building pasta and marshmallow structures (Photo: James Hopkin/SooToday).

### PEO/OACETT Golf Tournament

Again, this year, PEO/OACETT Algoma Chapters organized annual golf tourney in support of local charities for our youth. This 16<sup>th</sup> Annual Golf Classic Tournament was held at Crimson Ridge Golf Course on Friday September 7<sup>th</sup>, 2018. A total of 17 teams, including 68 golfers were participated in the event.

The event raised \$9,000 to support VEX Robotics and PEO and OACETT Scholarship funds. VEX Robotics Program greatly supports STEM (science, technology, engineering, and mathematics) students and gets them thinking earlier, collaborating with each other and develop skills in engineering design, programming, assembly, testing and robot competition skills. The major parts of the raised money, \$6,000 goes to VEX Robotics. The tournament supports scholarships for local students pursuing studies in engineering and technology.

All are welcome to join for this worthy cause via a sponsorship or simply for a game of golf. Details of the event will be announced early summer every year.

### PEO Scholarships

In 2018, the PEO Algoma Chapter awarded four (4) \$500 each scholarships to students entering their first year of an engineering program accredited by the Canadian Engineering Accreditation Board (CEAB). This years' PEO Entrance Scholarship Winners were as follows:

- Gavin Veenstra—University of Guelph, Engineering systems and computing,
- Hayley Roulliard—University of Windsor, BAS-Mechanical Engineering with Aerospace,
- Shawn Yanni – University of Ottawa – Civil Engineering,
- Tiana Bressan—University of Guelph - Biomedical Engineering.

Award recipients and their parents were invited to attend a dinner with members of the PEO Algoma Executive Board at Giovanni's Restaurant on July 9<sup>th</sup>, 2018.

Scholarships are awarded annually. If you know a student planning to attend a CEAB accredited engineering program next fall, please encourage them to contact the Chapter in May to receive a scholarship application or visit the Algoma Chapter website at [www.algoma.peo.on.ca](http://www.algoma.peo.on.ca) for more information.

### VEX Robotics Updates

Lone Wolf Robotics (LWR), a team of enthusiastic high school students from Sault Ste. Marie, Ontario for 2017-18, was only qualified team representing Northern Ontario at the Vex Robotics VRC High School robotics competition in Louisville, KY, USA. Getting that far, team attended 6 tournaments, earned numerous awards including: tournaments champions (x2), excellence award (x2), design award (x2), and robot skills award (x4).

A total of 579 teams were participated in the World's Robotics Competition Louisville Kentucky, April 25-28, 2018. Teams were divided into 6 Divisions: Science, Technology, Research, Engineering, Art, and Math. Lone Wolf Robotics was in Science division and ranked 41 out of 96 teams within their division in final competition.

The Lone Wolf produced an educational video celebrating the accomplishments of Sault Ste. Marie hero, Dr. Roberta Bondar. The video was chosen from others around the





world as the best STEM promotion video by Vex Robotics teams this year. Lone Wolf Robotics team also received Teamwork award within the division.

PEO Algoma Chapter support VEX Robotics program through organizing charity funding and providing judges officials in the competition.

(Videolink:<https://www.youtube.com/watch?v=KgkHyD5iUsc&feature=youtu.be>).

Special thanks to Marc Pilon, P.Eng, Matt Kirby, P.Eng, Spencer Milne, EIT, Robert Bressan, P.Eng, and Karina Gagné, EIT for all the work to make this competition possible.



LWR team from left Tiana Bressan, Tia Bariciak and Zach Nott



Bridge models ready for testing

## PEO/Sault College Bridge Building Competition

On May 5<sup>th</sup>, 2018, Professional Engineers Ontario Algoma Chapter in partnership with Sault College hosted the Annual PEO/Sault College Bridge Building Competition. Students from Grade 4 to Grade 12 completed in their respective categories to see who could build the strongest bridge model.

This year there were a total of 242 entries, surpassing the number previous years' entries by far. The winners of this years' competition were:

- Grade 4-5: Kavi & Ila Giroux (FH Clergue Public School),
- Grade 6-8: Sarah Kresin (Queen Elizabeth Public School),
- Grade 9-12: Amelia Spacek (Notre Dame du Sault).

We would like to congratulate all students who entered the competition, making it another successful year.

In addition, we would like to thank this year's sponsors Sault College, David Ellis Architect, The Sault Ste. Marie Construction Association, Tulloch Engineering and WSP Canada Inc. All sponsors were great partners, and we would like to extend our gratitude.



Bridge models testing in progress



## PEO Algoma Chapter – Fall Social

The Chapter Fall Social Event was held at the Northern Superior Brewing Company. PEO Chapter Members gathered to chat, sample various beers, enjoyed refreshments, and toured the production facility. Stay tuned for more information on our upcoming winter social.



Northern Superior Brewing

## Engineer-In-Residence Program

The PEO Algoma Chapter embarked on its first Engineer-In-Residence (EIR) Program in the Fall of 2017. This program focuses on engineering outreach to elementary school and high school students.

The 2017/2018 program partnered with the Grade 4/5 class at Grandview Public School with Teacher Ms. Jackie Barrett. PEO Algoma Chapter Vice-Chair Marc Pilon, P.Eng facilitated this Program.

The students were provided with monthly lessons on the various disciplines of engineering, and how engineering is applied in everyday life. Hands on activities promoted learning with the students to further solidify engineering concepts and their use in the real world.

Classroom activities consisted of mixing concrete, bridge building, pulleys and gears, data collection, a field trip to the fish culture station, and much more.

This Program will continue for the 2018/2019 school year with Ms. Barrett’s Grade 4 students at Pinewood Public School.

If you are interested in volunteering to become an EIR for the 2019/2020 school year, contact Marc Pilon at [marc.pilon@wsp.com](mailto:marc.pilon@wsp.com).

## Call for Volunteers

We are always on the lookout for members (EITs and retired engineers included) to help with chapter activities or participate as part of the Executive Board. If you have an idea for an event and would like to help organize it or if you are looking for a volunteer opportunity, please contact the Chapter Chair at [algoma@peo.on.ca](mailto:algoma@peo.on.ca).

If you're not sure how you would like to help out, but are interested in how the Chapter operates, you may want to attend one of our monthly Executive planning meetings. Contact the Chair for details.

## Professional Practice Exam

PEO Professional Practice Exam date:

**Saturday, April 6th, 2019**

To write the exam applicants must register with PEO at [http://peo.on.ca/index.php/ci\\_id/2060/la\\_id/31.htm](http://peo.on.ca/index.php/ci_id/2060/la_id/31.htm).

This site provides exam location details as well as the exam syllabus, preparation resources, general information regarding the exam process, and contacts for questions and/or further information.