

TISP Canada: Section Activity Report-2016

[Updated on Jan 11, 2017](#)

Event date	Section (Champion)	Event name and description	Number of people reached				Conducted jointly with other organization?	
			Student	Teacher	Parents	Volunteer	Yes/No	If yes, further (detailed) information
14-Jan-16	Southern Alberta (Anis Haque)	Compound Balance: Grade students have designed a compound balance similar to Rotational Balance activity. This was customized to Alberta science curricula and a relevant math exercise was introduced.	30	3	0	4	YES	This was jointly held with AASEE (Association for the Advancement of Science and Engineering Education).
19-Jan-16	Southern Alberta (Anis Haque)	Making Electricity: Grade five students at Ross Ford Elementary School in Indus, Alberta had a day long classroom activity. The students learned about various facts of electricity. They made a prototype where they generated electricity using a magnet and a coil and were	78	3	0	5	YES	This was jointly held with AASEE (Association for the Advancement of Science and Engineering Education).
03-Feb-16	Ottawa (Wolfram Lunscher)	Christie Lake Kids LIT-2 Lesson Plan: Presented the Gumball Machine lesson plan to a group of ~15 youth and volunteers of the Christie Lake Kids inner city youth program, during 3 Wednesday evenings. During that time 3 machines were built, and evaluated by a separate group of young people.	15	0	0	5	YES	The collaboration was with the Christie Lake Kids inner city youth program. A 75 year old program that engages with disadvantaged urban youth throughout the year to steer them towards positive life choices. Ottawa section has collaborated with CLK since fall 2014, an initiative begun by Janet Davis.
04-Feb-16	Southern Alberta (Anis Haque)	Science Fair: Provided four judges to evaluate science projects at Indus School	90	5	35	4	YES	This was jointly held with AASEE (Association for the Advancement of Science and Engineering Education).
04-Feb-16	Vancouver (Elroy Switlishoff)	West Kootenay Popsicle Stick Bridge Building Competition: Popsicle stick bridge building competition region-wide enabled by outreach to K to 12 schools throughout 3 school districts. Over 180 entries with over 50% in the 10 and under age group.	180	10	50	10	Yes	West Kootenay Chapter of the Association of Professional Engineers and Geoscientists of BC - provided funding, volunteers, bridge kits and bridge tester.

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04-Feb-16	Canadaian Atlantic (Dirk Werle)	<p>High School Engineering Design Competition: As in previous years we organized the High School Engineering design Competition, in cooperation with the Robotic Section (Dr. Mae Seto), and Engineers Nova Scotia. Preparatory meetings for the April 2 event were held on a monthly basis, starting in October 2015.</p> <p>In late November, we prepared a poster to invite high schools from across the Province to take part in the event. The challenge was to build and test a transformer, following the module available in the lesson plan on the tryengineering.org web site. Some 60 hours of volunteer work went into organizing the TISP aspect of the event.</p> <p>In the end 15 students participated. Cole Harbour District High IB program was outstanding, lead by their teacher M. Jean. The demonstrations were held at the public event at the new Halifax Library. Mae provided valuable professional advice to the teams. The teacher and the students made a public presentation.</p>	15	2	4	4	Yes	Engineers Nova Scotia Dalhousie University Halifax Public Library
09-Feb-16	Southern Alberta (Anis Haque)	<p>Making Electricity: Grade five students at Preirie View Elementary School in Chestermare, Alberta had a daylong clasrrom activity. The students learned about various facts of electricity. They made a prototype where they generated electricity using a magnet and a coil and were</p>	68	3	0	5	YES	This was jointly held with AASEE (Association for the Advancement of Science and Engineering Education).
12-Feb-16	Southern Alberta (Anis Haque)	<p>Buoyancy: Grade two students learned buoyancy through various interesting demonstrations and by making boats. Brentwood School in Strathmore, Alberta</p>	60	3	0	3	Yes	This was jointly held with AASEE (Association for the Advancement of Science and Engineering Education).

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20-Feb-16	Vancouver (Elroy Switlishoff)	Robo Games: District Robo Games competition for BC West Kootenay region.	50	10	40	8	YES	Organized by Kootenay Association for Science and Technology. Many program sponsors. I was called to be a judge for the competition, so IEEE contribution was time and travel expenses for one judge. Monetary contributions by other sponsors exceeded \$3000.
01-Mar-16	Southern Alberta (Anis Haque)	Making Electricity: Grade five students at Vulcan Preire View Elementary School in Vulcan, Alberta had a half-day clasrrom activity. The students learned about various facts of electricity. They made a prototype where they generated electricity using a magnet and a coil and were	60	4	1	5	Yes	This was jointly held with AASEE (Association for the Advancement of Science and Engineering Education).
04-Mar-16	Southern Alberta (Anis Haque)	Light: It was a hands-on activity on light for grade 4 classroom at Simons Valley Elemntary School in Alberta. The program was highly appreciated by the teachers.	96	4	0	2	Yes	This was jointly held with AASEE (Association for the Advancement of Science and Engineering Education).
08-Mar-16	Southern Alberta (Anis Haque)	Ship the chip: A design competetion for grade 7 students in Cremona School.	30	3	0	3	Yes	This was jointly held with AASEE (Association for the Advancement of Science and Engineering Education).
21-Mar-16	Southern Alberta (Anis Haque)	Making Electricity: Grade five students at Cremona Elementary School in Cremona, Alberta had a half-day clasrrom activity. The students learned about various facts of electricity. They made a prototype where they generated electricity using a magnet and a coil and were	27	2	0	3	Yes	This was jointly held with AASEE (Association for the Advancement of Science and Engineering Education).

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13-May-16	London (Murray MacDonald)	Exhibitor at Ontario Association of Physics Teachers (OAPT) at Wilfred Laurier University: Pat Finnigan and I set up a table using signage from the STAO conference and material from IEEE HQ. We also donated two items for draws during the day (small solar car kit). This is a small 1-2 day conference with about 100 attendees. Later in the day, two volunteers from K-W took over - Nitin Padmanabhan and Rasoul Keshavarzi. They will endeavour to start some activity in the Kitchener Waterloo section and Nitin has volunteered to join the monthly TISP Canada call.	0	32	0	3	Yes	Jointly between London, Toronto, and Kitchener-Waterloo section
15-Jun-16	Vancouver (Elroy Switlishoff)	Selkirk College Mini-U event for elementary students: Presented "Binary for the Younger Set" workshop.	36	3	0	0	Yes	Selkirk College provided the venue and arranged for the advertising for the event
16-Jun-16	Ottawa (Wolfram Lunscher)	Launching into Space: A PowerPoint + interactive presentation before a grade 5 class introducing the achievements of the Canadian Space Program and the physics of rocket propulsion.	25	1	1	1	Yes	In collaboration with the Canadian Space Society (the "other" volunteer was a member), which was the initial contact for the request for this presentation. Collaboration was 50/50. We used the opportunity to promote TISP and the lesson plans it offers.
27-Oct-16	London (Murray MacDonald)	Tall Tower Challenge: A presentation on TISP and then led the Tall Tower Challenge activity with pre-service teachers in science.	0	30	0	0	No	
25-Nov-16	London (Murray MacDonald)	Thames Valley DSB - Math Day - Pathways: As part of Thames Valley DSB's Math Day for grade 6 students offered math enrichment - did presentation on engineering as a career - the many options and the process to become an engineer. This was followed by an activity on binary numbers and binary math operations.	100	10	0	0	Yes	PEO shared credit as the presentation material is based on their program.

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19-Dec-16	London (Murray MacDonald)	<p>Thames Valley DSB SPARK! Event: Thames Valley DSB organized a full day SPARK! event at Medway HS for high school students (gr 9-12) interested in STEM enrichment. Over 80 students attended from 19 high schools.</p> <p>The day began with a design challenge - Tall Tower Challenge. This was followed by a presentation on engineering as a career, highlighting the many fields of engineering and the process to becoming an engineer and eventually a P.Eng.</p> <p>The remainder of the day was spent on a Communication Challenge where students developed a 2025 communication system for one of 4 scenarios - digital business in an historical building, a new tower condominium, a renovated school, and a rural business including residences</p>	85	6	0	0	Yes	PEO provided the presentation material on engineering careers and one volunteer was with OACETT

Total in 2016 1045 134 131 65

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