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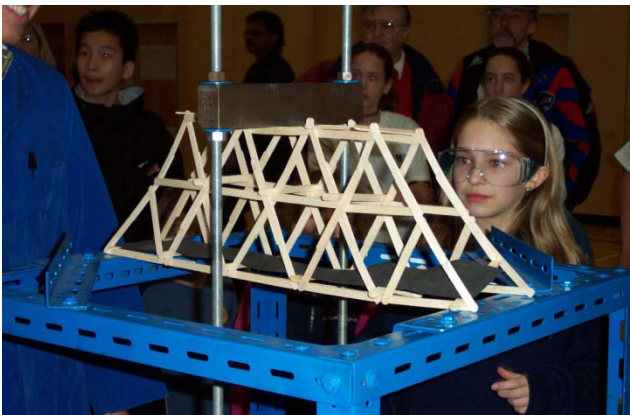
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**Branch Events (Upcoming)**

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**Popsicle Stick Bridge Building Competition**

**March 3, 2012**



In celebration of National Engineering and Geoscience Month (March), the Fraser Valley Branch of the Association of Professional Engineers and Geoscientists of BC (APEGBC) is hosting a Popsicle Stick Bridge Competition at the Langley campus of **Kwantlen Polytechnic University (20901 Langley Bypass, Langley)** on **March 3, 2012 at 10:00am**.

This exciting event challenges students, aged 9 to 14 years (grades 5 to 9), to design a bridge capable of holding heavy loads and to build it using only Popsicle sticks and glue. There are \$600.00 in cash prizes in addition to the bragging rights that come with building a structurally sound bridge. Registration information and more details can be found at <http://apeg.bc.ca/services/branches/fv.html>. The registration deadline is February 23<sup>rd</sup>, 2011. For more information please contact **Olena Zagoskina** at [ozagoskina@cascadeaerospace.com](mailto:ozagoskina@cascadeaerospace.com).

**A workshop on how to build bridges from Popsicle sticks will be held on Saturday, February 18, 2012 at the location above at 10am.**

Volunteer to help on the day of the event or at workshop by contacting a branch representative at [fv@apeg.bc.ca](mailto:fv@apeg.bc.ca) Exciting careers, interesting facts, and science at work are all part of our month long celebration.

**Olena Zagoskina, Branch Secretary**



Event Sponsors:



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**Branch Meeting**  
**February 13, 2012**

In recognition of the mechatronics program at Simon Fraser University in Surrey which provides the only full undergraduate engineering degree in the Fraser Valley, the next branch meeting will have a mechatronics theme. Our topic will be submarine rescue support, with a presentation by Dr. Andreas Huster, PEng, of Oceanworks International. In addition, Dr. Carolyn Sparrey, PEng, of Simon Fraser University will be speaking on the SFU mechatronics program and the opportunities for collaboration with industry. The event will be held in the new Surrey Centre Library near SFU Surrey. More details and registration information may be found on the APEGBC Fraser Valley branch web page.

**Martin Fandrich, PEng, Past-Chair**

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**Dinner Meeting**  
**March 21, 2012**

The APEGBC Fraser Valley Branch will host a dinner presentation on March 21st, 2012 in recognition of this year's World Water Day, themed 'Water and Food Security' by the United Nations. Valerie Z. Cameron P.Ge., Provincial Water Stewardship Manager with BC's Ministry of Forests, Lands and Natural Resource Operations, will take this opportunity to speak about BC's Water Act Modernization and the proposed new Water Sustainability Act. A Chartered Engineer will open the evening with an overview of the chartered engineering designation. The event will take place in Abbotsford, BC. Registration information will be on the Fraser Valley branch web page once details have been finalised.

**Aleksandra (Ola) Sokolowski, EIT**



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Branch Events (recently concluded)

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**Dinner Meeting**  
**November 28, 2011**



65 people in total gathered together for this meeting which included two presentations and a buffet dinner in between.

**"New APEGBC Requirements for Continuing Professional Development (CPD)"**

In response to member feedback, APEGBC council has revised the CPD requirements to be in line with those required in Alberta. The new guideline comes into effect January 2012, and Deesh Olychick, Associate Director of Member Services, presented the main changes to the Fraser Valley branch:

- a requirement of 240 professional development hours over a rolling three year period,
- recognition of professional practice, and
- the separation of presentations and contributions to knowledge into two different categories.

The requirements are not applicable to members-in-training and hours may be tracked on the online CPD recording centre. Complete information about the new CPD requirements can be found on the APEGBC website: <http://www.apeg.bc.ca/prodev/pdreq.html>.

**"Renewable Energy and Energy Efficient Technologies"**

Dr. Mehrzad Tabatabajan, an instructor and Program Head at the Mechanical Engineering Department of BCIT, presented the need for alternative energy and technologies. It is a fact that the Earth's population is growing by 300 people a second, and, as a result the demand for energy is growing. Dr. Tabatabajan emphasised the need for clean and renewable energy sources as these sources are inexhaustible, unlike petroleum and its derivatives.

Canada, as a first-world country, is at the top of the per capita energy use along with the United States. The path and challenges of moving from existing energy technologies and sectors to the



future ones were discussed. With the current usage of non-renewable energy sources and CO2 emission levels, Earth will reach the “point of irreversibility” by 2018. Managing the effects of intensified global warming will require new measures; therefore there will be a huge demand for engineering work and engineers’ contributions to the global energy sector. Following the presentation many questions and opinions were raised by members. Recently, Dr. Tabatabajan volunteered to help establish a new division at APEGBC, the Division for Energy Efficiency and Renewable Energy (DEERE): <http://www.apeg.bc.ca/services/divisions/deere/index.html> This division has attracted more than 180 members so far.

**Olena Zagoskina, Branch Secretary**

**Gateway Project Seminar  
October 24, 2011**



On October 24 the Fraser Valley branch kicked off our 2011/12 series of dinner meetings. Our topic was The Gateway Program – Design of the Onshore Works for the Port Mann/Highway 1 Project and we were privileged to have Chris Mealing, PEng, from Hatch Mott Macdonald as our speaker. The topic was of significant interest, as evidenced by the large number of our members who attended, and we were able to enjoy the largest banquet room at our usual venue of the Sunrise Golf Course.

The onshore project spans a significant length of the Lower Mainland and daily affects a large number of drivers. One of the challenges is maintaining a drivable road at the same time as constructing the upgrade. With buried pipes, overhead lines, railways and roads all in close proximity, any temporary or permanent changes to the route require in-depth planning and potentially the requirement to move all the neighbouring components of infrastructure. Ample time was dedicated to questions from our members.

Also at this Dinner Meeting, four new members of APEGBC received their certificates.

**Martin Fandrich, PEng, Past-Chair**



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2011-12 Burnaby/New Westminster Branch Executive

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**Amil Lindsay, PEng**  
*Chair*

**Amer Nawaz, P.Eng**  
*Treasurer*

**Martin Fandrich, PhD, PEng**  
*Past Chair*

**Olena Zagoskina**  
*Secretary*

**Bernadette Currie, PEng**  
*Vice Chair*

**Ron Weismiller, PEng**  
*Event Coordinator at Large*

**Sanjay Chandok, PEng**  
*School Engagement Coordinator*

**Margaret Li, P.Eng. Ph.D./**  
**John Calgue, P.Geo.**  
*Council Liason*

*Members at Large*

**Albert Jian, PEng**