



The Central Interior Branch of APEGBC
is proud to present the
**19th Annual
Ultimate Bridge Building Contest
& Geo Rocks Event**
Saturday, April 2, 2016
At Pine Centre Mall – Centre Court

In celebration of the upcoming **National Engineering and Geoscience Month (March 2016)** challenge your friends or colleagues to see who can build the stronger bridge! This is a fun event for all ages. In addition to the bridge contest there will be fun engineering and geoscience booths to check out.

Bring your constructed bridge to the event on **April 2, 2016**. The goal is to **construct the strongest bridge** possible with a maximum 100 Popsicle sticks and all-purpose white glue. The sticks must be left whole; otherwise the design of the bridge is left up to the competitor. See the 2016 rules and guidelines for further information about the contest.

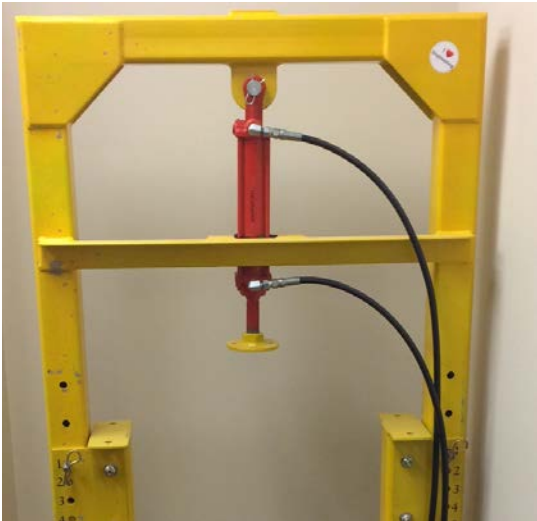
PLEASE NOTE: The rules and guidelines have been revised this year, please review the new rules and guidelines before designing your bridge.

There will be awards for the top three bridges in each youth category, as well as a prize for the strongest bridge in the professional and open adult category. The winner must be present at the award ceremony in order to win an award.

Event Details	Time	Prizes
Registration (all categories)*	11:00 – 11:45 am Or the hour before the start time for the category.	
Opening Ceremonies	11:45 am	
Primary Category** (Grades 1 to 3)	12:00 pm	1 st place \$150
Intermediate Category** (Grades 4 to 7)	1:00 pm	2 nd place \$100
Secondary Category (Grades 8 to 12)	2:00 pm	3 rd place \$50
Professional Category and Open Category	Following the youth categories.	To be determined

*There is a voluntary entry fee of a non-perishable food item. All items collected will be donated to the local food bank.

**Children must be accompanied by an adult at all times.



Bridge building packages are available for pick-up, please contact us at ci@apeg.bc.ca, or come visit us at our table in **Pine Centre Mall on March 19th**. If school classes or other group organizations are wishing to enter multiple teams drop-off of supplies can be arranged.

If interested in participating send your completed registration form to ci@apeg.bc.ca. The contest rules and guidelines are available on our website, www.apeg.bc.ca/ci. **Please register by March 30, 2015.**

For more information contact:
Lee Peltz, 778-693-2207, ci@apeg.bc.ca



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Team Registration Form

1. Register as yourself or a team, and indicate the category that you are registering for (one form per person/team please).

Category 1: Grades 1 through 3
Category 3: Grades 8 through 12
Category 5: Adult Professional

Category 2: Grades 4 through 7
Category 4: Adult Open

Category: _____

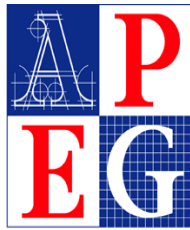
Bridge Builders:	Age	School and Grade (if applicable)

2. Please provide us with a name and e-mail address of the team leader who will be responsible for coordinating your team, if under 13 your team leader must be an adult responsible for your team.

Name: _____ **Email:** _____

(This will allow us to contact you with further information regarding the contest, if required.)

3. Save the completed form and return by email to ci@apeg.bc.ca by March 30h, 2016.
4. Refer to the Contest Rules and Guidelines on the construction and testing of your bridge. The rules and guidelines are available on our website www.apeg.bc.ca/ci.
5. Email any questions to ci@apeg.bc.ca
6. Build your bridge.
7. There is no enrolment fee to enter the contest; however, we do encourage participants to bring a donation of a non-perishable food item for the local food bank.
8. Have Fun!



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Contest Rules and Guidelines

First Rule is to have fun building your bridge!

Registration:

1. One entry per person or team.
2. Contestants are encouraged to register in advance to speed up registration on the day of the event. All bridges must be weighed at the registration table prior to the event. Please email your completed registration form to ci@apeg.bc.ca by March 30th, 2015. The registration form and additional contest information can be found on our website www.apeg.bc.ca/ci.

Bridge Construction:

1. Bridges must be built using a maximum of 100 standard popsicle sticks and standard all-purpose white glue. No other glues are acceptable (including carpenter's glue).
2. The popsicle sticks must be left whole. They cannot be cut or split.
3. The bridge is required to span a 500 mm gap and should be long enough to have a bearing area on both ends beyond 500 mm (i.e. 50 mm excess on either end for a total length of 600 mm). The bridge must incorporate a flat area to attach the loading mechanism. Please note, that the 'Crusher' is top loading.
4. The bridge must be a minimum 50mm (2") wide.
5. Feel free to add some colour and non-structural decorations. Please do not paint your bridge.
6. Bridges will be inspected during registration. Any violations of the rules above will result in disqualification from the prizes; however, the contestants will still be able to test the bridge.

Maximum/Minimum Bridge Dimensions

Length: Min. 550mm/Max. 660mm

Width: Min. 50mm/Max. Unlimited

Height: Max. 450mm

Judging Criteria:

1. Bridges will be judged separately on the basis of aesthetics and the ratio of load carrying capacity to bridge mass.
2. Bridges will be weighed upon registration on the day of the event.
3. There will be 5 categories for the contest: Primary (Grades 1 through 3), Intermediate (Grades 4 through 7), Secondary (Grades 8 through 12), Professional and Open Adult.
4. There will be a single aesthetics prize for a combined Professional and Open Adult category.

Bridge Testing:

1. Bring your built bridge to the contest.
2. The bridges will be loaded from the top. Sufficient space must be provided for the loading mechanism (approx. 50mm x 50mm).
3. All contestants and officials within the loading area must wear protective eyewear (provided).
4. An electronic load cell will record the maximum load that each bridge carries prior to failure.
5. The recorded load will be divided by the bridge's mass to determine the load/mass ratio.
6. The highest load/mass ratio will determine the winners. In the event of a tie (same load/mass ratio) the lighter bridge will win.