From: Radovan Milincic milincic@hawaii.edu

Subject: Second announcement: 30th Annual Hawaii Physics Olympics & Regional Bridge Building Contest

Date: January 9, 2019 at 12:17 PM
To: aapthawaii-l@lists.hawaii.edu



Dear all,

this is the second announcement for the 30th Annual Hawaii Physics Olympics & Regional Bridge Building Contest that will take place on February 2nd 2019. The application form is at the end of this email. Please register by replying to me at your earliest convenience as the event will take place in just over three weeks.

Lets enjoy another fun day of physics games and competition.

Hope to hear from many of you soon.

Best, Radovan

> sponsored by American Association of Physics Teachers Hawaii, Hawaii Chapter Engineering Club at UH, Kapiolani Society of Physics Students, Univ. of Hawaii Chapter Hawaii Academy of Science

WHEN: Saturday, Feb. 2, 2019

CHECK IN TIME: 8:00 to 8:30 a.m. in Kokio Building for bridges

EVENTS: 8:30 a.m. to 11:00 a.m.

AWARD CEREMONY: 11:30 a.m. to 12:00 noon

The 2019 Physics Olympics will be held at Kokio Building at the Kapiolani Community Campus

campus in Honolulu.

Teams of high school students are invited to participate in five fun events based on concepts in physics. The specific events will be announced on the day of the Physics Olympics and will be based on some of the following concepts:

Electric circuits Vectors Motion Experimental methods
Magnetism Pendulum motion Waves Optics
Gravity Friction Energy Heat

*** CART JOUST ***

One of the five events will be a cart joust event. Each team should make and bring to the competition a cart with wheels capable of derailing an opponent's cart in a head-on collision. The cart must satisfy the following specifications:

- 1) mass less than 1 kilogram
- 2) must fit inside a box of dimensions 20 cm x 20 cm x 20 cm
- 3) can be propelled only by gravity down a ramp of height 90 cm
- 4) must be certified by judges for safety; no sharp edges or points or other features that might risk injury to participants or spectators will be allowed

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kepairs may be made to carts between jousts and are recommended, but the repairs must be done quickly so that the cart is ready for its next scheduled joust. For more details, look at

http://www.phys.hawaii.edu/~aapt/P.O./Joust.html *** CART JOUST **

Schools may register a maximum of 6 teams. However, only 30 teams may participate so we may have to limit the number of teams from any one school. After the entry deadline, schools with multiple teams will be notified of the final number of teams that will be allowed. All teams must have at least 3 members and can have no more than 5 members. Submit one entry form (see below) per team via E-mail/mail to Radovan Milincic at the address below. Each student entering the Bridge Building Contest should have a separate entry form. Bridge building information and contest rules are available at the following web site: http://www.iit.edu/~hsbridge

There will be five events and awards will be given for 1st, 2nd, and 3rd places in each event but there will be no overall awards. Also, teachers and other observers are welcome to watch the events and take pictures but they may not answer questions or help students.

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4303 Diamond Head Rd, Honolulu, HI 96816

30th Annual Hawaii Physics Olympics entry form (one for each team)

SCH00L: **TEACHER:** PHONE:

TEAM NAME: TEAM MEMBERS:

1.

2.

3.

4.

Bridge Building Contest entry form (one for each contestant)

SCH00L: **TEACHER:**

Bridge Building Contestant: