31st Annual Hawaii Physics Olympics & Regional Bridge Building Contest
sponsored by
American Association of Physics Teachers, Hawaii Chapter
Engineering Club at UH Kapiolani
Society of Physics Students, Univ. of Hawaii Chapter

WHEN: Saturday, Feb. 1, 2020
WHERE: UH Manoa, Watanabe Hall and Physical Science
(map at http://manoa.hawaii.edu/campusmap/)
ENTRY DEADLINE: January 28, 2020
CHECK IN TIME: 8:00 to 8:30 a.m. in Physical Science 217 for bridges
EVENTS: 8:30 a.m. to 11:00 a.m.
AWARD CEREMONY: 11:30 a.m. to 12:00 noon in Physical Science 217

The 2020 Physics Olympics will be held at Watanabe Hall and the
Physical Science Building on the UH Manoa 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
Repairs 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 or FAX to
Michael Jones at the address/number 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
website:
http://bridgecontest.phys.iit.edu/public/international/2020/international_rules

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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Honolulu, Hawaii 96822

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31st Annual Hawaii Physics Olympics entry form (one for each team)

SCHOOL:
TFACHFR:
TEACHER:
PHONE:
TEAM NAME:
TEAM MEMBERS:
  1.
  2.
  3.
  4.
  5.

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Bridge Building Contest entry form (one for each contestant)

SCHOOL:
TEACHER:
Bridge Building Contestant: