The Nashville Branch of the American Society of Civil Engineers (ASCE) presents…

THE 2018 MUSIC CITY BRIDGE BUILDING COMPETITION

WHAT? **The 10th Annual Music City Bridge Building Competition**

WHEN? **Saturday, March 3rd, 2018**
Bridge Check-in at 9:00 am, Testing Approximately 10:00 am

WHERE? **Vanderbilt's Laboratory for Systems Integrity and Reliability (LASIR) in Metro Center (566 Main Stream Drive, Suite 600, Nashville, TN 37228)**

WHO? **High School Students in Tennessee**

- **ASCE will provide up to five bridge kits for each participating school (Request your bridge kits via email to Mr. Tony Snyder at tonysnyder@comcast.net. Please provide contact information including a mailing address when requesting kits. The last date to request bridge kits for the competition is January 31.)**

WHY? **FOR FUN!! FOR PRIZES – 1st ($75), 2nd ($50), and 3rd ($25) place!!**

Winner is determined as the bridge with the highest structural efficiency, E.

$$E = \frac{\text{Load supported (50,000g max.)}}{\text{Mass of bridge (grams)}}$$

Official rules and bridge specifications can be found at:
http://bridgecontest.phys.iit.edu/public/international/2018/international_rules

BRIDGE BUILDING HELP CAN BE FOUND AT: **http://bridgecontest.phys.iit.edu/public/international/index**

COMPETITION DAY CHECK IN INFORMATION

- **Check in of bridges will begin at 9:00am at LASIR. Small group tours of the lab will be provided during the check in period. The 20,000 square-foot LASIR facility houses a CH-53A Super Stallion heavy-lift helicopter airframe, full-scale wind turbine blade section, wind turbine test chamber and a military Humvee. LASIR enables researchers to test advanced sensor systems that can detect the earliest signs of failure in a variety of structures in the built environment including aircraft, automobiles and wind turbines. More details about the lab itself can be found here: http://archive.tennessean.com/article/20131017/BUSINESS04/310170037/Vanderbilt-School-Engineering-open-cutting-edge-research-lab-**
- **Bring your completely assembled bridge in a labeled box to the check in area.**
- **Contest volunteers will guide you through the process.**
- **Bridges that pass check-in and qualify will be taken to the testing area.**
- **Bridges that do not meet the contest specifications will be disqualified and are ineligible for prizes; however, they will still be tested.**
- **Testing will begin as soon as there are a sufficient number of bridges checked in.**
- **Please read and follow the contest rules (http://bridgecontest.phys.iit.edu/public/international/2018/international_rules).**
- **Competition loading will stop at 50kg, but loading will continue until the bridge fails.**
- **Bridge kits (BASSWOOD) are available online at several art supply houses. One of many online suppliers is at: http://www.modernss.com/shopping/family_sale_0_familyid_4357_cat_965**

WINNERS!!!
All Contestants receive certificates for participation CASH PRIZES!!
1st Prize – Trophy and $75.00, 2nd Prize – Trophy and $50.00,
3rd Prize – Trophy and $25.00

This is a regional qualifying competition. The top two finalists will be eligible to compete in the international competition.
http://bridgecontest.phys.iit.edu/public/international/index

For more information on the competition or event details, please see our Facebook page:
http://www.facebook.com/BridgeBuild

or contact
Janey Camp (janey.camp@vanderbilt.edu)