Concrete Canoe Extension

In coordination with the concrete canoe judges, we have decided to extend the deadline of Concrete Canoe Design Report and the Technical Addendum to 11:59pm CST on Sunday, March 24, 2019. These documents should be submitted via email to valpo.asce@valpo.edu by this date and time.

Registration Information

Much of the information related to registration can be found in the registration document at asceglsc.org/documents. In order for your registration to be considered complete, you must submit the participant information spreadsheet which can be downloaded at asceglsc.org/registration. This spreadsheet should be emailed to valpo.asce@valpo.edu by 3pm CST by March 4, 2019. If the spreadsheet is not submitted by this time and date, additional fees may be incurred, t-shirt sizes cannot be guaranteed, and dietary restrictions may not be accommodated.

Mailer 4 Release

We have decided to change the release of Mailer 4 to Monday, March 11. This is in order that we can adjust the final schedule after receiving information from each school on participation in competitions.

Requests for Information (RFIs)

We will accept RFIs until Friday, February 15, 2019 unless the RFI is for the Geotechnical Design or Transportation competitions. For those competitions, RFIs will be accepted until Friday, March 22, 2019. Each RFI will have a response within 2 weeks, and each response will be posted on the website.

Location Maps

Valparaiso University and Soldiers Memorial Park maps can be found at asceglsc.org/maps. The events on Friday will be held at Soldiers Memorial Park, primarily at the Beach and Cummings Lodge locations in the bottom right corner of the map. The events on Saturday will be held on Valpo’s campus primary in the Gellersen Engineering and Mathematics Center, Harre Union, Christopher Center, and Athletics Recreation Center (ARC).
Expected Schedule of Events

*Disclaimer, these days are not definite. We have had some difficulties with reversals of confirmations for venue reservations. Because of this, there could be changes. Mailer 4 will include specific times for each competition.

Thursday evening will include check-in and the concrete canoe captains’ meeting. If ASCE decides to require a captains’ meeting for the new national competitions, those will be head on this evening as well.

Friday

- Concrete Canoe Displays
- Concrete Cornhole
- Concrete Canoe Races
- Mystery Design
- Wooden Bridge

Saturday

- Blue Sky Competition of Competitions
- Sustainable Solutions: Dog House Challenge
- Technical Paper
- Materials Design
- Concrete Canoe Presentations
- Geotechnical Design – morning
- Transportation – mid-morning - mid-afternoon
- Quiz Bowl – afternoon
Geotechnical Design

Competition Overview

Teams will work together to construct a foundation for a provided structure. Because the rules for this competition were released after the rules for other competitions, we will accept RFIs for the competition until Friday, March 22nd.

If the shake table malfunctions or is not able to operate for any reason. A different geotechnical competition will be held, for which there will be no prior preparation necessary.

Eligibility

- Each university may have one team with up to five people per team.
- For each team, one team member must be female and one team member must be an underclassman.
- Each participant must be registered in the 2019 ASCE GLSC

Materials

The following materials will be provided at the competition. Each material will have a given cost, and teams will be provided with basic material specifications prior to the competition (i.e. unit weight), except for the mystery soil, or which no additional information will be given.

- Sand
- Clay
- Silt
- Gravel
- Mystery Soil
- Water

Each team will be provided with a wooden box in which to construct their foundation and a simple structure to be set on top of the foundation.
Rules Overview

- Each team will have 20 minutes to construct their foundation in the provided box.
- The price of the foundation will be based on the provided cost and the weights of each materials used.
- After the 20 minute build time, the foundation will be moved onto a shake table.
- The box will be subjected to seismic conditions on the shake table for 30 seconds, after which the angle of deflection will be measured.

Scoring and Disqualifications

- A final score will be the cost of the foundation multiplied by the cube root of the angle of deflection, with angles less than 1 degree scored on cost alone.
- An Angle of Deflection greater than 30 degrees results in a disqualification.
- A foundation in excess of 15 pounds results in an automatic disqualification.