



# American Concrete Institute - University of Maryland Chapter

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# Mission



To expand education in concrete and provide students with opportunities to gain practical hands-on experience with concrete design and construction

# Activities

- 15+ student members
- Student competitions
- Participation in ACI Chapter Meetings
- Site tours and guest speakers



# Competitions

- Concrete Canoe
- ACI Strongest University
- FRC Bowling Ball





# Fall Semester (Design)

- Project planning
- Hull design
- Mix design
  - Two mix days a week
  - 24 total mixes tested
  - 7, 14, 28 day breaks
- Practice concrete canoe pour

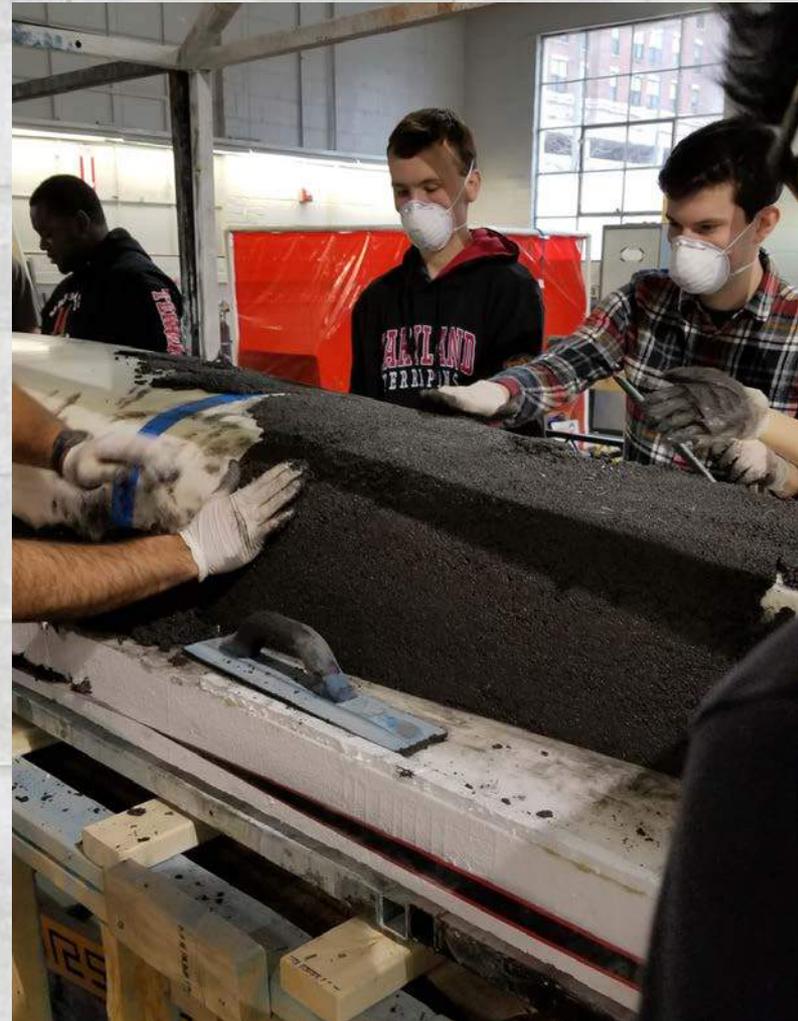


# Spring Semester (Build)

- Final pour
- Tons of sanding
- Constructing display
- Design report completion
- Oral presentation
- Race Team practice

Regional Competition:

April 7-8 at the University of Delaware



# ACI Strongest University Competition

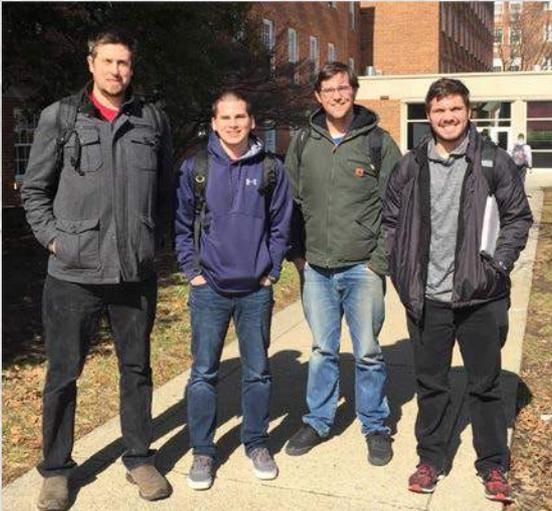
Design a concrete mix for a specified strength, then mix the concrete and make samples for testing

- **2016:** 1 team, 5 participants, 2nd place
- **2017:** 2 teams, 10 participants, 1st place
- **2018:** 2 teams, 10 participants, to be determined...



# FRC Bowling Ball

- First national competition
- Four-member team
- Planning on being back for future competitions



# Events

## Past:

- ASHE and ACI joint meeting: Roller Compacted Concrete
- Site tour: 414 Light Street Project concrete pour
  - 2nd tallest building in Baltimore
- Thanksgiving potluck

## Upcoming:

- Site tour: Whiting-Turner Mixed-Use Construction Project
- Plant tour: Gillespie Precast
- NCC ACI Golf Outing



# Guest Speakers

## Kenneth Hover

- Former ACI president

Topic: The concrete quality control challenge-  
Twins separated at birth



# Outreach

Outreach to local schools to promote interest in STEM and teach students about civil engineering and concrete.

