

What is competition?

Every April, Cornell Concrete Canoe travels to the Upstate New York Regional Conference to compete against numerous schools from the United States and Canada.

Each team receives scores in four categories: Technical Presentation, Final Product, Design Report, and Racing. As a committed team member, you will have the opportunity to participate in the event by cheering on your teammates or even paddling the canoe!

Steel Bridge Team competes at the same conference, allowing team members to show their Big Red spirit for both teams!

Last year, Cornell Concrete Canoe placed fourth at the Regional Conference, with second place finishes in the Technical Presentation and the Women's Endurance Race.



Team Requirements

1. Each team member must contribute an average of at least 3 hours per week to the project team.
2. All team members must participate in the most important day of the year: Cast Day. On this day, we hand cast concrete onto our chosen mold to make the canoe itself in just a few hours. The canoe is then cured for several weeks, after which the finishing process begins.
3. At the end of each semester, team members write a short report detailing what they have learned and what they have worked on.

Interested in joining?

Fill out an application, which can be found on our website!

cornellconcretecanoe.com/recruitment

Applications due 9/4 at 11:59 pm

Questions?

Email our Team Lead,
Amina Rahill-Marier: ar696@cornell.edu

Or visit our website:
cornellconcretecanoe.com

CORNELL UNIVERSITY concrete canoe



Getting your hands dirty!

As a team, we spend the year designing and building a fully functioning concrete canoe to present, display and race at an annual spring competition. The entire project, from logistics to design and from fabrication to racing, is the responsibility of all student team members.

Which sub-team is right for you?

Cornell Concrete Canoe has six sub-teams!

- Aesthetics Team
- Analysis Team
- Business & Logistics Team
- Mix Team
- Mold Team
- Paddling Team

Aesthetics Team

Irina Wang
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Helen Kuo
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Do you have artistic flare? Do you enjoy creating designs? This sub-team works on the appearance and overall presentation of the canoe. It leads the finishing of canoe construction through pigmenting concrete, sanding the boat, and sealing the exterior to create a beautiful final product. In addition to working on the canoe, the Aesthetics team brings the theme to life by designing the display board, stands, and presentation aspects of the project for competition.



Analysis Team

James Cramer
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Kimberly Chen
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This sub-team analyzes the static and dynamic behavior of our canoe. In order to determine the best structural shape and the concrete properties necessary for the final product, they use various programs, write their own code, and create a 3D rendering of the canoe.

Business & Logistics Team

Ellen Yao
exy2@cornell.edu

This sub-team focuses on project scheduling, budget management, and competition logistics to keep us organized throughout the year. By coordinating sub-teams and working through budget constraints, they ensure that the team as a whole accomplishes its tasks as efficiently as possible.

Mix Team

Autumn Watt
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This lab-based sub-team is the perfect opportunity to get your hands dirty. It designs the composition of the concrete, mixes each batch, and tests each mix for compressive and tensile strength. You learn about the chemistry behind this fascinating material and how to manipulate it so that it floats in water!



Mold Team

Catie Johnson
caj92@cornell.edu

Sammy Closter
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This sub-team is responsible for the construction of the cedar-strip canoe gives the concrete canoe its shape. They also regularly practice casting to give feedback to the Mix Team. On Cast Day, Mold Team is in charge of the casting process. This sub-team requires ingenuity and an ability to see beyond the standard uses of materials.



Paddling Team

Ali Corkran
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Racing is a huge component of the competition. There are all-male, all-female, and co-ed races that vary in distance. It's a great way to get out and enjoy Cayuga Lake. Join the paddling team – coached by a former Olympic kayaker – for a fun opportunity to race in a unique canoe!

