



Herff College of Engineering

Herff College of Engineering EDAY 2019
BOAT RACE
Grades 9-12

The competition is for teams or individuals current attending high school. The competition is designed to test the ingenuity in the design of an aquatic vehicle for speed and stability.

The Teams will race boats in fixed container of water to determine which boat can cover 6 feet in the shortest amount of time. Details are given below:

1. Maximum length of the boat is 12 inches.
2. Must be built by the team.
3. Cannot be built from a kit.
4. Cannot be purchased as a readymade item.
5. Maximum width of the boat is 4.5 inches.
6. Maximum draft of the boat is 3.0 inches.
7. No part of the boat can touch the water container.
8. Must be self-propelled and cannot use any

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- Remote controlled devices.
9. Power source must be mechanical. No electrical or chemical allowed, including pressurized gasses.
 10. Maximum height of the boat structure (including any method of propulsion) is 10 inches.
 11. No chemically produced gas or aerosol propellant may be used to drive the boat. Also, cannot use any gas from pressurized storage as a propellant.
 12. Cannot use a fan located off the boat to propel the boat down the container.
 13. The water container will be a section of PVC pipe, 8 inches in diameter, with end caps. Water in the pipe will be at least 4.5 inches deep. The pipe will be cut open at the top to allow the boats to move from start to finish.

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CONTEST:

Teams will be allowed three attempts for their boat to race.

Times and distances will be recorded.

The longest distance for each team and the time required to cover that distance will be recorded and used to determine the winner.

The winner will be the boat that covers the 6 feet in the shortest amount of time.

If no boat goes 6 feet, then the boat that covers the longest distance in the shortest amount of time will win.

When a boat hits the water container and stops, that run will be ended.

Boats that hit the container and continue to move toward the finish line are still in the race until they stop or cross the finish line.

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Please send any questions about the competition
to:

Dr. Aaron Robinson
Associate Professor
Department of Electrical and Computer
Engineering
alrobins@memphis.edu