



Department of Civil Engineering
American Society of Civil Engineering
Student Chapter

2019 Ohio Valley Student Conference

Thursday, April 11-Friday, April 12, 2019

2019 Concrete Frisbee Competition

Overview

Each university will create a Frisbee made of concrete that should be cast two weeks prior to the conference weekend. Each Frisbee will be tested in a designated area.

Objective

The objectives of the concrete Frisbee team is to create a Frisbee that is durable and efficient.

Eligibility

Each university may have one team up with up to four members. Each participant must be registered for the 2019 ASCE Ohio Valley Student Conference.

Material Specifications

Portland cement cannot be more than 30% by mass. All reinforcement must be nonmetallic mesh. Carbon fiber and fiberglass mesh can be used. There is no restriction on choice of aggregates. No resins or epoxies may be used. The Frisbee should be circular in shape, solid, and without any holes. It must fit in a 12"x 12"x 2" box and be larger than an 8"x 8" x 1/4" box. No reinforcement may be visible at the time of testing.

Testing Procedure

- Any mold can be used
- Each team can bring up to two Frisbees but must select one before the beginning of the competition

Judging

The judges will judge on aesthetic appearance and other factors listed on the scorecard.



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Scoring

Scores will be determined based on the following categories and the attached scorecard.

Accuracy (Long Distance): A target will be placed 80 feet away from the baseline. Each team has three (3) chances to throw the Frisbee. Out of the three (3) throws, the throw with the closest distance will be counted. After the Frisbee is thrown, measurements will be taken from the target to the closest edge of the Frisbee and scored as indicated on the scorecard.

Accuracy (Short Distance): A target will be placed 40 feet away from the baseline. Each team has three (3) chances to throw the Frisbee. Out of the three (3) throws, the throw with the closest distance will be counted. After the Frisbee is thrown, measurements will be taken from the target to the closest edge of the Frisbee and scored as indicated on the scorecard.

Durability: The Frisbee will be weighed before and after both events. The residual weight will be used to calculate durability. If the Frisbee loses less than 5% of its initial weight the team will receive a full score as indicated on the scorecard.

Weight: The Frisbee will be weighed before the events and will be compared to the lightest Frisbee.

Aesthetics: The aesthetics will be judged on texture, finish and overall paint job and compared to other competing schools.



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Scorecard:

Criteria	Calculation	Points Awarded
Accuracy (Long Distance)	0-5' (from target) = 25 points 5-10' = 20 points 10-15' = 15 points 15-20' = 10 points 20-25' = 5 points	/25
Accuracy (Short Distance)	One point will be deducted for each foot of distance between the Frisbee and the target.	/25
Durability	<5%-20 points 5-20%-15 points 20-50%- 10 points >50% - no points awarded	/20
Weight	Lightest = 20 points 1 point lost for every Frisbee lighter than your school's	/20
Aesthetics	First place = 10 points 1 point lost for every Frisbee ranked higher than your school's	/10

**** Please submit any questions regarding these rules to ovsc2019@zips.uakron.edu with "Competition Name_RFI" in subject line ****