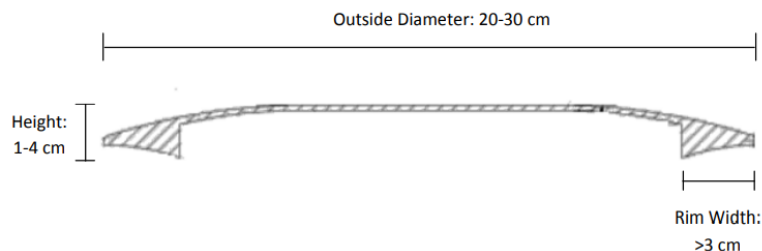


## Ceramic Disc Golf

**PURPOSE:** The purpose of the Ceramic Disc Golf contest is to promote spirited and collegial competition among students by demonstrating their prowess in manufacturing ceramic discs possessing high strength and mechanical reliability. The contest is organized by Keramos.

### IN-PERSON RULES:

1. All student members of Material Advantage are eligible to participate; entrants **DO NOT** have to be members of Keramos. All work on the discs must be performed by students; Faculty members and non-students may only advise.
2. Each Institution may submit up to four discs for judging.
3. One disc per person
4. Discs must be made entirely from ceramic or glass materials, and may not contain any metal, plastic, paint, organics, or non-ceramic materials.
5. No commercially made parts may be incorporated in the discs, to include rods or prewoven fiber mats. Raw materials such as powders, liquid precursors, chemicals, and fibers are permissible to purchase and use to fabricate a disc; however, any woven textile fiber architecture created to reinforce the disc must have been fabricated by the students and not purchased.
6. Discs are to be saucer-like in shape with an outside diameter between 20-30 cm, a height of 1-4 cm, and a rim width greater than 3 cm. See the below diagram for details.
7. Discs can be enameled or glazed but cannot be painted or coated after final firing.
8. Discs must be fired or formed at a temperature of 1000°C or higher. No parts may be glued or tied on after firing.
9. No poisonous or toxic materials, e.g., arsenic, are to be incorporated into the discs. Contestants are expected to follow standard safety practices in place at their university.
10. The year of the contest must be inscribed (or glazed) into the surface of the disc. No paint or marker etc.
11. Only discs made during the current calendar year may be used.
12. Prizes will be given to the winning individual and the contestant with the most aesthetically pleasing disc. Height: 1-4 cm Outside Diameter: 20-30 cm Rim Width: >3 cm



## VIRTUAL RULES

### Standard Competition

1. This competition will follow the same manufacturing guidelines as the in-person competition.
2. The procedure of the competition will be as follows:
  - a. Contestants will toss the disc to each other over a gradually increasing distance.
  - b. A disc will remain eligible for throws if its longest dimension remains greater than half of the original diameter of the disk.
  - c. The video of the measurements (throw distance and disc) and the subsequent throws must be continuous.
  - d. The winner will be the disc that is successfully caught over the greatest distance.
  - e. Disc must be thrown over a hard surface, such as asphalt or concrete.
  - f. Disc must be able to survive at least one miscatch that results in it hitting the ground.
3. During the recording, the following items must be used as safety equipment for the competition. Video must show use of any/all required safety equipment.
  - a. Safety Glasses
  - b. Closed Toe Shoes
  - c. Leather Gloves
  - d. Measuring Tape
4. All entries must be submitted to <https://bit.ly/keramos-student-comps-21> by 11:59 PM CST, Sunday October 10<sup>th</sup>, 2021

### Open Competition:

1. The Open Disc category has been created for those competitors who do not have access to university labs and must therefore fabricate their mugs at home. Entries in the Open category require disclosure of how the mug was fabricated (processing, material choice, and firing cycle), and no commercial grade equipment can be used.
2. Follow the same guidelines for the video submission as stated in the Virtual Standard Competition.

### AESTHETIC

1. Contestants must submit 6 pictures of their mug showing the top, bottom, and all four sides of the mug to <https://bit.ly/keramos-student-comps-21> by 11:59 PM CST, Sunday October 10<sup>th</sup>, 2021

## JUDGING:

1. The judges of the contest will consist of at least 2 members of the Keramos National Board of Directors
2. Each disc will be judged in the categories of furthest distance made and artistic merit (aesthetics). The disc that was successfully thrown into the disc golf hole from the farthest distance in the least number of shots will be named winner of the Ceramic Disc Golf Contest and the most aesthetically pleasing/creative disc will be recorded as the “Best Looking” disc.
3. Before the competition, each disc must be tested to ensure that it is within the appropriate size restrictions
4. Discs will be thrown in alphabetical order by institution name at each distance.
5. The competition will be performed as follows
  - a. Shots shall be taken from one-meter increments until all the competitors fail to make the shot or until all the discs are broken. No passing on throws will be allowed. The maximum distance will be 9 meters.
  - b. Three attempts at each distance will be given to make the shot.
  - c. The student that makes a throw from the farthest distance away with the least number of shots accumulated will be the winner and awarded a prize.
  - d. If the disc breaks, the students score will be the last made distance. The disc will be considered broken if it can pass through the minimum diameter hole (20 cm). Judges may also choose to make their own evaluation of whether the disc is broken or otherwise unsafe to throw.

## CONTEST ADMINISTRATION:

1. These contests will be held during the MS&T conference each fall.
2. Winners will be announced in the Keragram and forever recorded in the Keramos Record book. Photos of the winners are often included in the ACerS Bulletin as well as the other Material Advantage Partner Society publications.