

Build and test a volcano at home or school and then enter into a competition to win prizes at the AIChE Chemical Engineering Eday Volcano Contest.

Volcano Contest Rules:

Volcanoes must be built in teams of two or three individuals of any age. It is important for you to learn how to work with your peers because many projects in college and industry are group efforts.

Your mission is to design a volcano such that the lava will flow closest to 18 inches from the outer edge of the volcano base. If you have a rectangular flat base to mount/carry your volcano, the distance will be measured from the base of your actual volcano, not the edge of your flat base.

This can be accomplished by varying the volcano height, mountain slope, and the size and shape of the volcano shaft. No other materials may be used to channel the flow of the lava.

The volcanic eruption should be simulated using no more than one (1) cup of vinegar, one (1) tablespoon of baking soda, and any amount of corn starch. Pre-measured allotments will be provided for you at the competition, so you do not bring your own lava materials.

The volcano must be constructed at home or school using mostly recyclable materials (see suggested construction materials, below).

Suggested Construction Materials

- * Paper mache (possibly painted)
- * Clay
- * Cardboard coated with play-doh
- Hints:
- * Starch will slow down the flow, experiment with it.
- * The steeper the volcano, the faster the lava will flow.
- * In the judging, creativity counts!

Be creative and have fun!

Judging and Prizes

- Judging will be based on lava flow distance (closest to 18 inches from volcano base), creativity, and appearance (use your imagination).
- Prizes will be awarded. Bring your entry to F. Paul Anderson Tower basement Room 59A on E-day.

Please contact Dylan Shoulders Dylan.shoulders@uky.edu for registration and any questions.