Herff College of Engineering EDAY 2015
THE WALL
Grades 9-12

The WALL competition is about teamwork, resource utilization and balancing forces. The goal of the competition is to support one team member in a chair attached to a wooden wall using common duct tape.

Each team will consist of up to four members who are currently attending high school. A given school may enter up to three teams. The event will take about 15 minutes to complete. Competition times may be selected when registering on the web for the event.

Rules

1. Duct tape will be supplied to you.
2. There is no limit on the amount of duct tape that may be used.
3. Each team will be provided with a chair that must be attached to the wall using the duct tape provided.
4. After attachment, the lowest point of the chair must be at least six inches above the floor.
5. Each team will have ten minutes to affix the chair to the wall.
6. The duct tape may be affixed anywhere on the front of the wall and only within the shaded areas on the back of the wall shown in Figure 1 on the next page. No duct tape may cross over the top of the wall outside of the shaded blue areas shown.

8:30 a.m. until 5 p.m. Engineering Administration Building
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7. Only one member per team is allowed to be supported in the chair once it is attached to the wall.

8. Once the chair is in place, the selected team member must sit in the chair with his or her feet off the ground and his or her back flush against the chair back.

9. The supported team member may not hold onto any part of the Wall and may not have any support other than the chair.

10. The supported team member must remain supported above the floor for at least three minutes. If any part of the chair or the supported team member touches the floor before three minutes have elapsed, the team will be disqualified.

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11. If the supported team member remains supported for the required time, the team’s score will be calculated using the expression shown below:

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Score = \frac{\text{Weight of Supported Team Member (lb)}}{\text{Mass of Duct Tape Used (g)}}
\]

12. Tape cores and scraps that are not used on the wall must be saved as they will be used to determine the mass of tape used.

13. Final Standings and results will be sent to all competing schools.

Please send any questions about the competition to
Dr. Roger W. Meier
ASCE Student Chapter Faculty Advisor
rwmeier@memphis.edu

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