

Discovery Weekend #3  
Challenge Weekend  
March 28, 2009



We will have two separate competitions during the Challenge Weekend:

- Fastest Car – *the fastest car to traverse a distance of 15 feet.*
- Tug-of-War Tournament – *your car will need to compete in multiple tug-of-war competitions with the cars of other teams.*

You can choose to design and build one prototype car that can be modified for each competition, or you can design and build two separate prototypes. Both cars should use the fuel cell and motor we give you today, but you are free to use any other materials you would like.

Chassis Constraints: Your chassis cannot exceed the dimensions 9" x 5" x 5". The minimum thickness is 0.1" for any part of your chassis.

**\*E-mail your Solid Works plans for your chassis to [kellyc@latech.edu](mailto:kellyc@latech.edu).**

- First round: E-mail by noon on Monday, February 16, and we'll ship by Friday, February 20.
- Second round: E-mail by noon on Monday, March 2, and we'll ship by Monday, March 9.

**\*PowerPoint presentations must be emailed to [jdn@latech.edu](mailto:jdn@latech.edu) no later than Tuesday, March 24, at 5:00 pm.** The presentation should contain at least the following information:

- Title page (including team member names, date . . .)
- Design ideas for chassis (including rejected designs)
- Design ideas for gear trains (including rejected designs)
- Final design drawings (with dimensions)
- Chart showing the tests performed to evaluate your prototype

Each team will be allowed six minutes (+/- one minute) for their presentation.