

IEEE Engineering Frosh Design Competition

5 unique challenges provided by:

- UW Robotics Team
- Aerial Robotics Group
- Sustainable Technology Education Projects
- R3Design
- Waterloo Space Society

4 to 6 students a team (prefer first-year engineering)

Win up to \$200 cash prize

Tutorials and building materials will be provide by the participating student teams and IEEE

Registration fee: \$40

Deadline: Wednesday, September 23, 2009

Competitions date: Saturday, October 17, 2009

To register, fill in the registration form and submit it with the registration fee at CPH Foyer, at the Student Branch Office at E2-3353B, or from any of the participating teams! If you have any questions, send us an email at sb.uw@ieee.org.

Don't have a team? Let us know by sending us an email or sign up on the form at CPH Foyer. We will match you up with others to form a team.

Competitions Description

UW Robotics Team:

Design and build your own autonomous sumo robot in this popular event. Your robot will attempt to push competitors out of the ring at the competition. UW Robotics will give design tutorials to help you along the way. Maximum of 25 teams.

Sustainable Technology Education Project (STEP):

Create a working wind turbine, capable of pumping water from one container to another. You'll get to put it to the test in a wind tunnel at the competition. STEP will provide a tutorial to give you some more guidance. Maximum of 12 teams.

R3Design:

Reinvent the bicycle. Take an average bike and turn it into something extraordinary. Whether it's regenerative braking or a redesign of the entire gear system, innovation is in order. Maximum of 12 teams.

Waterloo Space Society (WSS):

Rockets! Design it with specialized CAD software, build it, and launch your rocket so that it lands right on the target. WSS will provide a tutorial as well as a test launch. Maximum of 12 teams.

Waterloo Aerial Robotics Group (WARG):

Remote control planes are the order of the day. Design a wing structure to accompany a pre-built fuselage and race your plane around an outdoor course. WARG will provide a tutorial session on wing design to get you started. Maximum of 10 teams