

March, 2010

## Highlights:

- **Robot Shipped to AZ Regional! Feb 23**
- **All FLL Students from 2009, Team 1013 Sponsors, and students on campus received personalized tickets to attend the AZ Regional**
- **ASME Presentation—SUCCESS. \$900.**
- **Costa Vida fundraiser—SUCCESS.**
- **Pizza Hut fundraiser—SUCCESS**
- **Rhino Caffe fundraiser—SUCCESS**
- **Olive Mill fundraiser—SUCCESS**
- **Team 1013 begins**
- **manufacturing their own team buttons**
- **Yesco donates the Lexan and graphics for robot top**

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# Phoenix News

## Chairman's Award 2010

This year, Team 1013 is taking Chairman's seriously. Several team members got together and compiled everything the team did that year into an essay. Then, they politely asked multiple teachers to edit it and point out all the main concepts within the piece. Through this method, the students were able to weed out the grammatical errors, perfect sentence fluency, and were guaranteed that all the topics were clearly explained. After several revisions, the final essay was submitted to FIRST in February.

Three representatives from the team,

Kelley Gullo, Jasper Younger-Howard, and Victoria Brinkman, were chosen to present the main points of the essay to judges on competition day. Nikolas Barber acts as their understudy, in case one of them cannot make it. Every day, the four meet after school and practice presenting. They use a Powerpoint as a visual aid to their presentation.

In addition, Aj Mallo finished his short video, and it was turned in with the essay. It is to be viewed by the judges prior to the presentation given by Team 1013 representatives.

This video effectively shows the

judges the personality and dedication of The Phoenix. The Chairman's Award is FIRST's highest honor. In order to win it, each team must write an essay that details everything they did that year. Business plans, community services, fundraisers, and events are all listed within the paper. Each team must choose three representatives to present the topics of their paper to judges at a Regional Competition. Each team is given five minutes to do so. Chairman's summarizes the accomplishments of each team.

## Building for Breakaway

Team 1013 has created a soccer playing beast that's ready for action at its first regional in Arizona.

Team 1013 jumped into build season this year with an open mind. To figure out the most effective method for kicking the balls in this year's FRC game, *Breakaway*, the team simulated soccer playing robots. They ran around the Queen Creek High School courtyard pretending to be robots and staging different scenarios as to best strategize for competition.

Based on the results of their simulations, Team 1013 got straight to planning their robot. After long debates and revising blue prints, the

team finalized their design. 27 by 34, the robot is the smallest created yet by The Phoenix; its compact frame allows for the robot to easily drive over the bumps on the *Breakaway* field and traverse under the tunnels under each tower. Its kicking device is a simple pneumatic system connected to a cross-bow device to add extra power. Mecanum wheels allow a drive system that moves forward, backward, turns left and right, and strafes to either side. Its four Victor motors combined with this drive system allows for quick and sharp movements during game play.

After six weeks of hard work and long hours, all the members of Team 1013 proudly say that they're ready for the *Breakaway* challenge.



