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## ICHS Technology Education News



### *F1 in Schools* team takes 2nd place

A team from Indian Creek High School's Technology Systems class took home the 2nd place trophy on Wednesday, March 11th, 2009 at the first annual IUPUI *F1 in Schools* contest. This marks the first time that Indiana has held a state competition to see which teams will go on to the national *F1 in Schools* invitational contest held in Colorado this summer. The representatives from *F1 in Schools* invited the 1st, 2nd, & 3rd place trophy holders from Indiana to join them in Colorado to compete. The other two schools invited to attend the national competition were Greenfield-Central High School (1st place) and Mount Vernon (3rd place).

Students in the contest were required to design an F1 style CO<sub>2</sub> car using a solid modeling software on the computer and to use Computer-Aided Manufacturing to produce the car. Students at Indian Creek have access to a software program to test how aerodynamic the cars are before they have to mill them in the school's computer controlled router. The students had to document their work in a design portfolio and give a 5-minute presentation explaining the processes they went through to produce their design. The presentation had to incorporate a marketing strategy, graphics, and visual media to help capture the eyes of the judges.

Indian Creek sent two teams up to the contest on Wednesday, but only one was able to race. Due to some issues with the milling of one of the cars, the judges considered it to be a safety hazard by a margin of 33/100ths of a millimeter. The tolerance allowed in the specifications for the contest is +/- 0.1 mm. Each team had to comply to very specific measurements for the race for both the car and the wheels.

Both teams partnered with individuals and local companies to get all of the requirements for the contest completed by the deadline. Some local companies that were instrumental in allowing the students to compete in this contest were Dunn Hardware in Trafalgar and GMG Motors in Morgantown. In addition to local help, experts in aerodynamics from Orion Sports Marketing and IUPUI's Motor Sports program were invited to come speak to the students. If you have further questions about the contest, please contact Travis East at Indian Creek High School.

