

FastTrack RC

2010 National STEM League Finals

May 22, 2010 at Daytona International Speedway (FLA)

You are invited to cheer on America's future professionals in the 2010 FastTrack RC National Finals. Since October 2009, student teams in grades 6 - 12 have been accumulating points through a variety of activities including head-to-head races, time trials and science, math, engineering and math (STEM) projects. On Saturday May 22nd, 2010 the points leaders from around the U.S. are coming together to compete at Daytona International Speedway.

The FastTrack RC is a National STEM Challenge League. FTRC teams are rewarded for managing and marketing themselves, but as professional racing teams know, their ultimate challenge is to go further, faster. Through teamwork and effective race engineering, students learn to approach their car's physical limits without exceeding them. Example activities include:

SCIENCE. *Traction:* Use Newton's Laws of Motion and a skid pad test to calculate the friction coefficient. Use that value to find the top speed around a curve.



TECHNOLOGY. *Design on the FastTrack:* Students use a leading 3-D CAD program, SolidWorks, to design a more aerodynamic car body or parts.



ENGINEERING: When students apply math, science and technology to solve any FastTrack RC problem, they are engineering a solution.

MATH. *Track Layout & Math Modeling:* Learning to make the tracks is an applied geometry lesson. To optimize any variable, teams build and use math

FastTrack RC Finals

Opening Banquet on Fri, May 21, 2010 is invitation only

Sat Finals are Open to the Public

- Date: Sat, May 22, 2010
- Venue: Daytona International Speedway (Daytona Beach, FL)
- Time: 9:30 AM - 2:30 PM with pre-race inspection beginning at 9:00 AM.
- Food provided for competitors. Vending open for spectators
- Hotel: Ask for the 'FastTrack RC' rates at the Courtyard Marriott rachel.green@marriott.com
- Contact for info: FastTrack@ten80education.com



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