



NASA Glenn Research Center
Engineering Design Challenge: *Gaining Traction on Mars*
E-BLAST October 28, 2014

What is the Challenge?

How can we make wheels that not only work but last while exploring other planets? Students will build a standard vehicle as a means to design and test wheels that achieve optimal traction in a simulated Martian environment. The Challenge simulates current research being done at NASA'S Glenn Research Center's Simulated Lunar Operations (SLOPE) lab.

To view the intro video, visit <https://www.youtube.com/watch?v=4ug-e4QIPEE#t=10>.

What's New?

The Engineering Design Challenge: Gaining Traction on Mars website is up and running! Please visit <http://www.nasa.gov/content/gaining-traction-on-mars-overview> for all your content and support needs.

Upcoming Events

Live subject matter expert (SME) connections are coming up! Students will have an opportunity to videoconference with real NASA SMEs and hear firsthand what it is like to work at NASA and answer questions from students.

The first connection topic is: "Working at NASA and Introduction to the Challenge." Connection Dates and Times (all times Eastern; registration is limited to one connection per site):

- Wednesday, November 12 @ 10:00AM
- Wednesday, November 12 @ 4:00PM
- Thursday, November 13 @ 2:00PM

Register at <http://tinyurl.com/EDC-SME-REG>.

Reminders

We are interested in showcasing everywhere the challenge is being implemented. To do that, we are working on generating a map to put on the EDC website, showing the locations of all the participating schools and organizations. If you are planning on starting this fall (November 2014-January 2015), please send an email with the name of your school or organization, address, and estimated number of student participants to GRC-Ed-Opportunities@mail.nasa.gov . Please use the subject, "We are go for rover wheel design!"