



Apollo 16 Command Module



Mars Curiosity Rover

**Team 1 – Mobility  
Requirements and  
Concepts**

**Team 2 – Power  
and Thermal  
Control**

## “On to Mars”

### Human Exploration Rover Challenge - HERC Rover Design Workshop at USSRC Davidson Center

April 17, 2015, 6:00 - 8:30 p.m.

(Registration Indicating Design Team Preference is Required  
to be sent to “[roving.ron@gmail.com](mailto:roving.ron@gmail.com)” by April 3\*)

This Rover design workshop is for the students to learn about accomplishments in previous Moon and Mars Rover exploration, and how those experiences can be applied to design of Rovers for future human Mars exploration.

HERC students and advisors will be divided into 4 Mars Rover design teams and participate in a "Concurrent Design" format workshop to outline solutions for future Mars Rover development challenges and design questions.

#### Workshop Agenda

5:45 - 6:00 Seating for Designated Design Teams

6:00 - 6:10 Welcome and Orientation

6:10 - 6:20 Mars Robotic Rovers Design &  
Experience by Dr. Barbara Cohen

6:20 - 6:30 Moon Robotic & Human Rovers  
Design & Experience by Ron Creel

6:30 - 7:25 Pizza and Team Design Discussions

7:25 - 8:25 Team Reports (15 min. each)

8:25 - 8:30 Wrap-up



Lunar Module



Lunar Roving Vehicle

**Team 3 – Crew  
Systems and  
Safety**

**Team 4 – Science,  
Navigation, and  
Communication**

\* - 7 person limit per HERC Student and Advisor team