



Photo courtesy of Lockheed Martin

**For more information go to:**

[www.csc.caltech.edu](http://www.csc.caltech.edu)



# 2013 Caltech Space Challenge

**March 25<sup>th</sup>-29<sup>th</sup>, 2013**

**California Institute of Technology**

The Caltech Space Challenge consists of an intensive one-week mission design competition where students will be challenged to develop a mission to send astronauts to a Martian moon. Students will be supported with guest lectures and workshops from top scientists and engineers from NASA-JPL, Caltech, and other premier institutions.

## **Public Lecture Series**

*(All lectures are in Guggenheim 101)*

**3/25/2013 - 8:00 AM – Richard Zurek**

*“Mars Science: Past, Present & Future”*

**3/26/2013 – 8:00 AM – Damon Landau and  
Nathan Strange**

*“Trajectory Design Techniques for Human Missions to  
Mars”*

**3/26/2013 – 11:00 AM – Ron Turner**

*“Radiation Risk Management”*

**3/26/2013 – 1:00 PM – Daniel Mazanek**

*“Considerations for Designing a Human Mission to the  
Martian Moons”*

**3/26/2013 – 3:00 PM – Julie Castillo-Rogez**

*“Phobos and Deimos: State of Knowledge and Drivers  
for Future Exploration by Robotic and Human Missions”*

**3/26/2013 – 4:30 PM – Josh Hopkins**

*“Comparison of Phobos and Deimos for Human  
Missions”*

**3/27/2013 – 8:30 AM – Paul Abell**

*“Robotic Precursor Missions: Enabling Exploration and  
Science”*

**3/29/2013 – 2:00–4:00 PM– Voyager and Explorer  
Final Presentations**