



The Keck Institute for Space Studies  
presents an open technical lecture:

# How to Select a Landing Site on Mars

**Remote Sensing of Physical Properties of  
Surface Materials on Mars**

**Dr. Matt Golombek**  
Jet Propulsion Laboratory

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**Monday, July 08, 2013**

3:00 pm lecture

4:00 pm refreshments

**Lees Kubota Auditorium  
Guggenheim Building  
California Institute of Technology**

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Surface characteristics at the seven sites where spacecraft have successfully landed on Mars can be related favorably to their signatures in remotely sensed data from orbit and from the Earth.

Comparisons of the rock abundance, types and coverage of soils (and their physical properties), thermal inertia, albedo, and topographic slope all agree with orbital remote sensing estimates and show that the materials at the landing sites can be used as “ground truth” for the materials that make up most of the equatorial and mid-latitude regions of Mars.

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Seating is limited and is available on a first come, first served basis.

This lecture is held in association with the student-led study  
“Inferring Thermal and Mechanical Properties of Celestial Bodies Regolith Using (Simple) Low-Tech Tools”