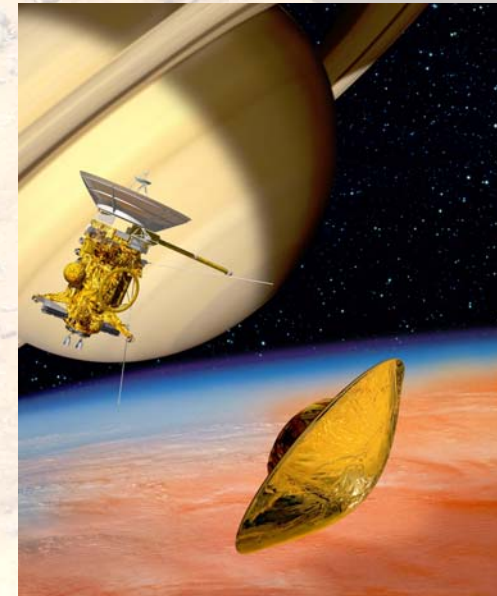


Atmospheric Entry Flight Dynamics Seminar

Aerodynamics, Stability and Control of Terrestrial and Extra-Terrestrial Atmospheric Entry Vehicles

This two day course will address:

- ♦ **Orbital mechanics and dynamics of planetary entry**
 - Entry conditions dictated by flight plan
 - Planetary entry dynamics – important parameters
 - Important entry events (maximum heating and loads, parachute deployment)
 - Sensitivity of mission trajectory to aerodynamic forces and moments
- ♦ **Aerodynamics of planetary entry vehicles**
 - Basic definition
 - Theoretical, computational and experimental methods for identifying aerodynamic terms
 - Static and dynamic forces and moments
 - Flight regimes (rarefied, hypersonic, supersonic, transonic, and subsonic)
- ♦ **Ballistic range technology**
 - Types of testing
 - Available facilities and their capabilities
 - Data acquisition
 - Aerodynamics from trajectory data



Presented by Dr. Gary T. Chapman and Dr. Leslie A. Yates

Current Course Schedule:

May 22 & 23, 2006, NASA/Ames Research Center, Moffett Field, CA

May 31 & June 1, 2006, NASA/Langley Research Center, Hampton, VA

Please contact AerospaceComputing, Inc. for additional course schedule and cost.

This course is available at customer sites.

Contact: Dr. Hiro Kumagai, hkumagai@AerospaceComputing.com

AerospaceComputing, Inc.
465 Fairchild Drive, Suite 224
Mountain View, CA 94043



Some Images Courtesy of NASA/JPL/ESA

Voice: (650)988-0388

FAX: (650)988-0389

www.AerospaceComputing.com