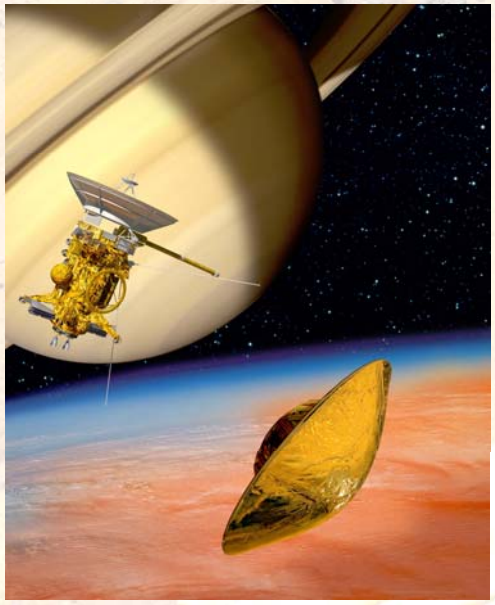
Atmospheric Entry Flight Dynamics Seminar

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**
  - **Important entry events (maximum heating and loads, parachute deployment)**
- **Aerodynamics of planetary entry vehicles**
  - **Static and dynamic forces and moments**
  - **Flight regimes (rarefied, hypersonic, supersonic, transonic, and subsonic)**
  - **Theoretical and experimental methods for identifying aerodynamic terms**
  - **Constraints imposed on mission by aerodynamic forces and moments**
- **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

Please contact AerospaceComputing, Inc. for additional course schedule and cost.
This course is available at customer sites.
Contact: Dr. Hiro Kumagai, hkumagai@AerospaceComputing.com

Some Images Courtesy of NASA/JPL/ESA

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

Voice: (650)988-0388
FAX: (650)988-0389
www.AerospaceComputing.com