

Wednesday, March 17, 1999

Session IIIA: Test Perspectiveness and Effectiveness

Larry Gillam
Bruce Wendler

- Acoustic Test Effectiveness Analysis for Space Vehicles
- Accelerated Test Techniques
- Perceptiveness of Thermal/Vacuum Testing
- Nonlinear Optical Surface Characterization
- Qualification and Acceptance Test Approach for Small Satellites
- Formulation of the Spacecraft Testing Value Stream

Session IIIB: Modeling and Simulation

Tom Baca
Mike Lane

- Modeling and Simulation for Space System Functional Testing
- Venting Simulation Model Uses for TV Ground Test
- Validation of Turbomachinery Computational Fluid Dynamic Models Using Laser Velocimetry
- International Space Station Leak Testing
- Prediction of X-33 Engine Dynamic Environments
- Vibroacoustic Modeling Study with Delta II 10-Foot Composite Fairing
- Mass Properties Measurements of the Mars Surveyor Orbiter in Vacuum

Session IV: Launch System Testing

Dave Kerner
Lalit Sharma

- Testing the Space Shuttle Main Engine: Engine Development and Hot-fire Operations at Stennis Space Center
- The Rocket Nozzle Test Facility, Its Capabilities and Role in Developing Propulsion Systems
- A Cryogenically Pumped Space Simulation Facility for Plume and Contamination Studies
- Activation and Validation of the New Atlas IIAS Launch Facility at Vandenberg Air Force Base
- Low Frequency Errors of Accelerometers when Measuring Rocket Engine Vibration Environments
- Delta III Structural Qualification Testing Overview

