

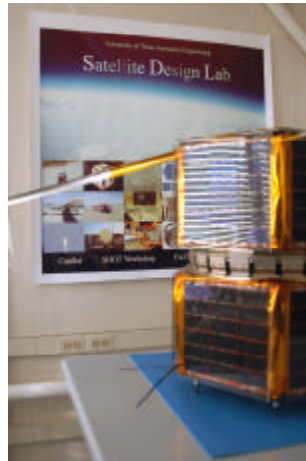


American Institute of Aeronautics and Astronautics

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“Lunch and Learn”



The AIAA Houston Section Astrodynamics Technical Committee presents

Aerospace on the FASTRAC: Student Built Satellites at the University of Texas

Dr. E. Glenn Lightsey

Department of Aerospace Engineering and Engineering Mechanics

The University of Texas at Austin

Date: June 16, 2005 (Thursday)

Time: Noon - 1:00 pm

Place: JSC Building 16, Conference Rooms 111 and 113

The University of Texas at Austin recently won a national competition sponsored by the U.S. Air Force, NASA, and the AIAA for the launch of a student built satellite in 2006. This presentation will provide an overview of the University Nanosatellite program and discuss the capabilities of the flight satellites and plans for their launch in 2006. UT-Austin's entry, the Formation Autonomy Spacecraft with Thrust, Relnav, Attitude, and Crosslink (FASTRAC), will demonstrate enabling technologies for satellite formations. Two flight-ready satellites have been designed, fabricated, integrated, and tested within a two year design period leading up to the competition. JSC donated valuable thermal/vacuum chamber time which assisted with the design of the satellites. The mission experiments in GPS relative navigation, plasma microthrusters, and networked ground stations will be discussed. A follow on student mission which has been funded at UT-Austin, known as Autonomous Rendezvous & Rapid Turnout Experimental Inspector Satellite (ARTEMIS), will be introduced.

Please bring your lunch and a friend. This free event is open to the public. AIAA membership is not required. If you plan to attend, registration is recommended and will be easy to do online at www.aiaa-houston.org. If you require JSC badging, please register 3 days in advance (citizens) or 2.5 - 3 weeks in advance (non-citizens). For additional information, contact Douglas Yazell at 281-244-3925 or douglas.yazell@honeywell.com.

Learn more about the AIAA Houston Section at <http://www.aiaa-houston.org>