



Mechanical and Aeronautical Engineering Department
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2003-2004 Monthly Seminar Series on Space Research

16 October, 20 November, 15 January, 19 February, 15 April, 20 May
3rd Thursday 4:00-5:00 pm

An Overview of the Atlas V Solid Rocket Booster

William J. Kearney
AEROJET

Date: 16 October 2003_Thursday Time: 4:10-5:00 pm Location: 1065 Kemper

Refreshments will be provided at 4:00 p.m.

Hosted by Professor Fidelis Eke

ABSTRACT

The Lockheed Martin Atlas V launch vehicle is the latest in the Atlas family of evolved expendable launch vehicles (EELVs) meeting the spacecraft delivery needs of NASA, the U.S. Air Force and commercial satellite customers. The first Atlas V with Aerojet's solid rocket boosters successfully flew from Cape Canaveral on 17 July 2003. An overview of the design, development, qualification and first flight is presented. Key technologies, engineering tools together with program challenges, successes and opportunities are highlighted.

ABOUT THE SPEAKER

Bill Kearney is the Director of Mechanical Engineering at Aerojet, Sacramento. Prior to his current position he also worked as a Chief Engineer and an Engineering Manager in various projects at Aerojet that included NASA Space Shuttle (Post-Challenger) Advanced Solid Rocket Motor nozzle design. Before joining Aerojet, he worked at Pratt & Whitney; Atlantic Research Corp.; and Fiber Materials Inc. and Missile defense programs and missile technology contracts such as Upper stage motor production, integration and support for Air Force/NASA missions; Propulsion materials, structures and component technology programs; and Air Force and Navy nozzle technology for advanced space & ballistic missile propulsion and Materials development for reentry vehicle nose tip and rocket nozzle materials. He co-authored extensive publications on advanced propulsion materials and components areas. He is an Associate Fellow and recent Solid Rocket Technical Committee Chairman of the American Institute of Aeronautics and Astronautics (AIAA).

For more information about

SpaceED (Space Engineering Research and Graduate Program) or the seminars please contact

Professor Nesrin Sarigul-Klijn at (530)-752-0682 or nsarigulklijn@ucdavis.edu

Members of the campus community and visitors from the region are welcome to attend the seminar series.

Sign-in is required at the event. SpaceED seminar will replace MAE297 seminar on 3rd Thursdays.

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