



Mechanical and Aerospace Engineering Department  
University of California Davis  
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<http://mae.ucdavis.edu/research/spaceEd/>

## 2010-2011 Monthly Seminar Series on Space Research

21 October, 18 November, 20 January, 17 February, 21 April, 19 May  
3<sup>rd</sup> Thursday 4:00-5:00 pm

# Launch Vehicle Propulsion Engineering and Mission Success

**Bill Kearney**  
Aerojet

Date: 21 October 2010 Thursday Time: 4:10-5:00 pm (Refreshments will be provided at 4:00 pm) Location: 1062 Bainer

### ABSTRACT

Hosted by: Professor Nesrin Sarigul-Klijn

Aerojet is a world class provider of rocket propulsion systems for space and defense systems. In the area of space, Aerojet solid rockets boost performance on the Atlas V launch vehicle for defense, NASA and commercial missions. An array of engineering skills and disciplines contribute to mission success. Aerojet's engineering processes are anchored in rigorous, data-driven, risk-management and decision-making principles. Potential design, manufacturing and performance failure conditions are continually evaluated for adequate mitigation beginning with the requirements and design definition through development, manufacturing and launch readiness. When problems, anomalies, and/or unexpected conditions are observed they are quickly analyzed for understanding and determination of direct and root cause to assure corrective and preventive actions are effectively implemented. This seminar will present some key elements and characteristics of Aerojet's mission success culture.

### ABOUT THE SPEAKER

Bill is Aerojet's director of chief and project engineers for defense systems. His past experience with Pratt & Whitney includes advanced technology programs; chief engineer on the inertial upper stage and director of new business development. Bill's experience with Aerojet includes nozzle and thrust vector control design, engineering director for the Atlas V solid rocket boosters and director of mechanical engineering. Bill is a member of the board of advisors to the UC Davis Mechanical and Aerospace Engineering (MAE) department, and is an associate fellow 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, Director of SpaceED at (530)-752-0682 or [nsarigulklijn@ucdavis.edu](mailto: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 3<sup>rd</sup> Thursdays.

SpaceED seminars are supported in part by



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