



Mechanical and Aeronautical Engineering Department  
University of California Davis  
Davis, California 95616-5294

## 2006-2007 Monthly Seminar Series on Space Research

19 October, 16 November, 18 January, 15 February, 19 April, 17 May  
3<sup>rd</sup> Thursday 4:00-5:00 pm

### The Vision for Space Exploration and The Orion Crew Vehicle

**Sam Wiley**

*Chief Engineer for Aerojet's Orion Propulsion Systems  
Aerojet, Sacramento*

Date: 19 October 2006 Thursday      Time: 4:10-5:00 pm      Location: 1062 Bainer  
*Refreshments will be provided at 4:00 p.m.*

#### ABSTRACT

*Hosted by: Professor Ron Hess*

The Orion Crew Vehicle (previously known as the Crew Exploration Vehicle or CEV) will succeed the Space Shuttle as NASA's primary vehicle for human space exploration. Orion's first flight with astronauts onboard is planned for no later than 2014 to the International Space Station. Its first flight to the moon is planned for no later than 2020. Sam Wiley, Aerojet's chief engineer for spacecraft propulsion systems at Aerojet Sacramento will provide an overview of the Orion Crew Vehicle and its role in supporting the vision for space exploration.

#### ABOUT THE SPEAKER

Sam Wiley is the chief engineer for spacecraft propulsion systems at Aerojet Sacramento. For the past eleven years, Sam has been responsible for Aerojet's scientific spacecraft and human rated propulsion systems. These include the NEAR spacecraft sent to observe the near earth asteroid Eros and the MESSENGER spacecraft currently on its way to orbit the planet Mercury. He also led the development of the X-38 Deorbit propulsion stage, an X-vehicle envisioned as a crew rescue vehicle for the international space station. He graduated in 1988 from CSUS with a Bachelor of Science degree in mechanical engineering and has spent that past 18 years at Aerojet. He is currently the chief engineer for Aerojet's Orion propulsion systems.

#### *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](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.

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