



American Institute of  
Aeronautics and Astronautics  
Dayton-Cincinnati Section

**Lunch 'n' Learn**  
***Powering Space Exploration***  
**Friday 30 Oct 2009**

***Guest Speaker: Douglas M. Allen***

NASA continues to explore our solar system with both manned and robotic missions. Mr. Doug Allen will discuss how electric power is produced to power the spacecraft and scientific instruments. The presentation will include a discussion of both the history of space power technology and where the technology is going for future missions. Space power for manned missions will be discussed including the current programs to prepare for a lunar outpost and future trips to Mars. Power technology for missions to both the outer planets and their moons and the inner planets will also be presented. The presentation will cover many technology areas such as solar photovoltaics, energy storage, fuel cells, and nuclear power sources including both radioisotope and reactor systems.

Doug Allen has worked on space power technology for the past 30 years and recently won AIAA's Aerospace Power Systems award for career achievements in the field. Doug has worked for on advanced technology for both military and civil programs. He has been very involved with defining power technology options and programs for NASA exploration missions including participation on multiple high level NASA and National Research Council Committees. Mr. Allen also is one of the instructors for AIAA's Space Power Systems Design short course.



**Time: 11:45 AM**

**Location:**

China Garden Buffet  
112 Woodman Dr.  
Dayton, OH 45431

**Lunch:** You will be able  
to purchase the buffet

