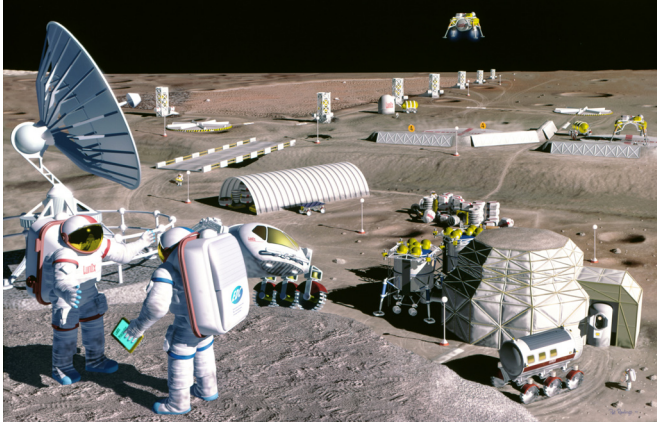


# Designing Bases For The Moon & Mars



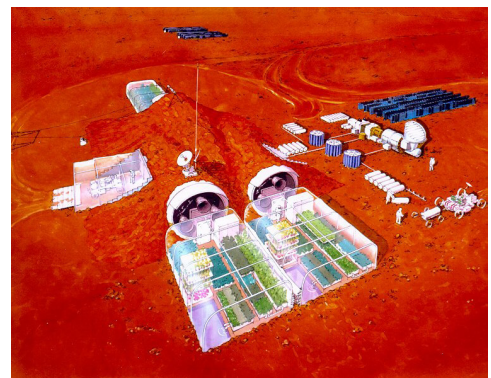
This event is hosted by the local section of the  
American Institute of Aeronautics & Astronautics  
[www.aiaa.org/portal/sydney](http://www.aiaa.org/portal/sydney)

Join Dr Jason Held of Saber Astronautics for a technical seminar and learn about the how a 'systems of systems' approach can be applied to measuring the performance of lunar and Mars base designs. Dr Held will share the results of a recent space base design workshop and discuss how scenarios such as space weather events, power outages, structural breaches and life support system failures impact upon the design of bases for planetary exploration. FREE PIZZA will be provided prior to the seminar.

**Tuesday 16th September 2008 at 6:00pm**  
Ian Ross Seminar Room, Building #31  
Off North Rd, Faculty of Engineering & IT  
The Australian National University  
RSVP by 15th September:  
0421062650 or [michael.west@anu.edu.au](mailto:michael.west@anu.edu.au)

#### About Dr. Jason Held

Prior to founding Saber Astronautics, Dr. Jason Held was a US Army Major and Army Space Support Team (ARSST) leader for USSTRATCOM (formerly Space Command) and deployed internationally in support of military space missions. At Space Command, Dr. Held was instrumental at translating spacecraft telemetry into terms usable by CENTCOM's operation centre during Operation Enduring Freedom. He was a lead instructor at the Interservice Space Fundamentals Course, teaching satellite design, propulsion, and orbital dynamics. His civilian engineering experience consisted of hardware-software integration for the Wide Field 3 (WFC3) instrument for the Hubble Space Telescope and testing for the Intermediate Command Module (ICM) of the International Space Station. Dr. Held's PhD thesis, from the University of Sydney's Australian Centre for Field Robotics, focused on complex Systems of Systems (SoS) models, which successfully predicted behaviour and performance for multiple UAV teams conducting moving target tracking using decentralized path planners and data fusion. Dr. Held has also participated as an engineer at the Flashline Mars Arctic Research Station and the Mars Desert Research Station during various field seasons.



This event is held in conjunction with:

