



The Puget Sound Chapter of AESS presents
Advanced Plasma Propulsion Systems
at the University of Washington

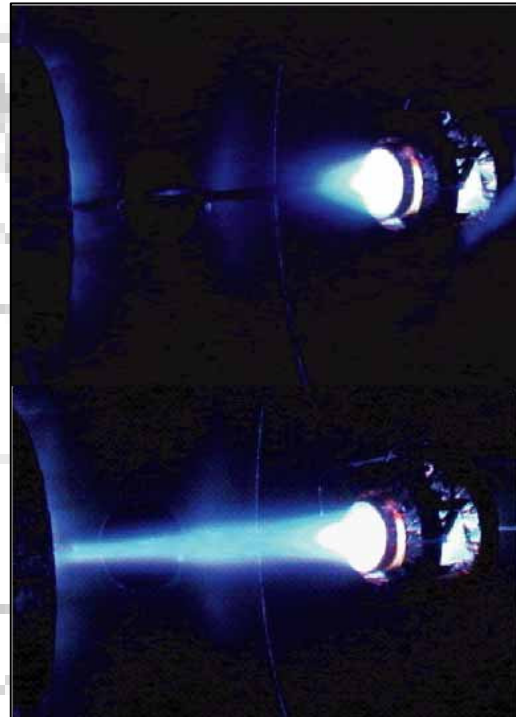


Prof Robert Winglee

6pm (light refreshments) for 6:30-7:30pm, Wednesday, April 30, 2008

(venue details over)

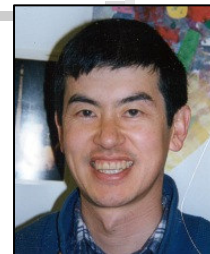
Plasma propulsion systems have the potential for enhancing spacecraft performance due to their high specific impulse. Small systems can be used for station keeping or formation flying of multiple spacecraft. For science missions where there are long travel times, plasma propulsion systems offer the opportunity of proving high Delta V's with little propellant usage. The low thrust of plasma propulsion systems is an issue if rapid orbital transfers are required. In this talk we review developments at the Advance Propulsion Laboratory at the University of Washington where a variety of electrodeless rf thrusters are being developed. These systems are compact and can be operated under a large range of operating conditions, from micro-thrusters to MW thrusters that could be potentially used to support human exploration.



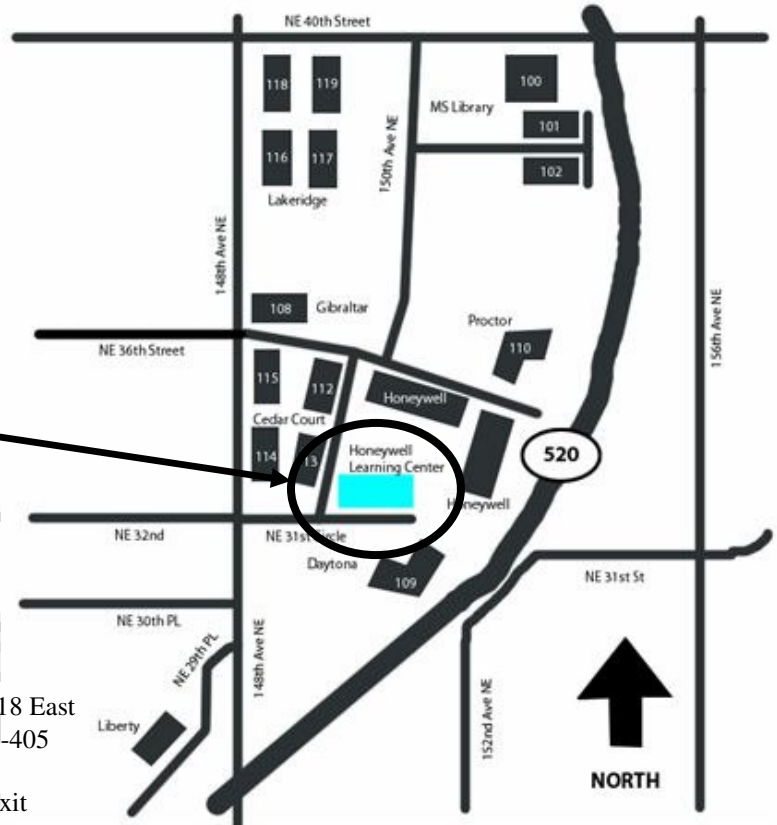
<http://www.ess.washington.edu/Space/magbeam/>

To attend , **please RSVP no later than 29 April 2008** to Reece Lumsden at reece.h.lumsden@boeing.com

Speaker Bio: B. Sc. (Hons.), University of Sydney, 1980, Ph. D., University of Sydney, 1984. Joined the University of Washington in 1991, having previously worked at The University of Colorado, Boulder, UCLA and Southwest Research Institute. He is presently the Chair of the Department of Earth and Space Sciences, University of Washington, and the Director of the Washington Space Grant Consortium. He was the Editor for Geophysical Research Letters, 1997-2000, winner of the DISCOVER Magazine Awards for Technological Innovation, sponsored by the Christopher Columbus Fellowship Foundation, Aerospace category, 2001, and appeared on Discovery Channel's "Science of Star Wars", 2005 and "Mars Rising", 2007.



15001 NE 36th Street
 Redmond, WA 98052
 (Street Address is NOT
 on the Building)



Driving Directions

- From Sea-Tac International Airport, take State Route 518 East
- Follow signs to I-405 North Bound, continue north on I-405 through Bellevue
- Take State Route 520 East to the 148th Avenue North Exit
- At the light, the road will veer to the right
- Turn right on NE 31st Street, just past Azteca Mexican Restaurant; you will see a sign the reads "Microsoft Cedar Court"
- Turn left at the Honeywell sign onto the side street
- Turn right at the second entrance into the parking lot
- The Learning Center is in the large 3 story glass building to your right as you enter the parking lot
- Please check in at the front desk to locate your training room

