Undergraduate Research Opportunity:  
Adaptive Optics Imaging of Io  
working with Nick Schneider, APS/LASP

To: APS Majors, Minors and other Astronomy Students

An undergraduate research assistant is needed to participate in an experimental program to observe the escaping atmosphere of Jupiter's moon Io. We have been granted time on the Air Force's 3.67m telescope on Haleakala, Maui, this March. This remarkable facility performs adaptive optics, removing the blurring of Earth's atmosphere and giving images that rival the Hubble Space Telescope. Your work and travel will be paid by an NSF grant for this purpose. If successful, these observations could lead to a thesis and scientific publication. Additional observing at SBO will be part of the project.

Selection will be based on the following criteria:

- 1. Familiarity with astronomical observing
- 2. Experience with computers, especially data analysis in IDL or iraf
- 3. Overall GPA and GPA in APS classes - especially the "Observing Classes" 3510/3520 (formerly 3010/3020) if you have taken them
- 4. Preference will be given to APS majors, minors and students seeking senior/honors theses

You must also meet the following requirements:

- US citizen, with no reason to doubt access to a secure military facility
- Available to travel to Hawaii 17-24 March
- Able to work longhours at 10,000ft under physically demanding conditions
- Available to work part-time through the end of semester, and preferably beyond.

Please apply by providing a paper copy of

- a cover letter highlighting items 1-4 above, including your email address and expected graduation date
- resume, if available
- unofficial transcript from PLUS

Leave your application with Susan Thomson in the APS office (Duane E-226). I can answer specific questions about this opportunity via email to nick.schneider@lasp.colorado.edu. Applications received by 5:00pm, 17 February will receive full consideration. Interviews will take place the following week. All applicants will be notified by email when the position is filled.