SEMINAR SERIES PRESENTATION

Friday, August 31st – NSSTC 2096 – 9:00a

SPEAKER: Burgess F. Howell,
USRA / Earth Science Office

ISERV PATHFINDER: A LOW COST, COTS-BASED, EARTH IMAGING SYSTEM ABOARD THE INTERNATIONAL SPACE STATION

SERVIR (a Spanish acronym for "the regional system for visualization and monitoring") is a project jointly operated by NASA and the US Agency for International Development (USAID) and transitions the outputs of NASA-funded research to operational science applications, and provides information and data products to decision-makers for a broad variety of environmental management and humanitarian purposes. In order to improve its access to supporting data, SERVIR has proposed a series of Earth observing instruments to be developed over several years and deployed on the International Space Station. This series of instruments, consisting of several internal and external instruments capable of data acquisition across a broad range of wavelengths, collectively comprises the ISS / SERVIR Environmental Research and Visualization System (ISERV). Pathfinder, the first instrument in this suite, is a low-cost, COTS-based telescopic system, consisting of commercially available hardware, additional custom hardware, and custom software. The assembly is deployed in the Window Observational Research Facility (WORF), and observes the Earth through the nadir-facing window in the Destiny module. ISERV Pathfinder launched June 26, 2012 aboard JAXA's HTV3. It is expected to be deployed later this year.

REFRESHMENTS WILL BE PROVIDED