



## ASRC MS and the USDA FAS Present the 2008

# "Integrating ResourceSat-LISS and AWiFS Data into Multi-Sensor Solutions"

Monday, October 20,  
and Tuesday, October 21, 2008  
Greenbelt Marriott - Greenbelt,  
MD

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*Registration now for the 3rd  
annual ASRC MS and the  
USDA FAS 2008 "Integrating  
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*Data into Multi-Sensor Solutions" Seminar at the Greenbelt Marriott in Greenbelt, MD.*

*Due to the popularity of the event in previous years, the seminar will be hosted over a period of two days.*

*Monday, October 20, 8AM-5PM, and Tuesday, October 21, 2008 from 8AM-10:30AM.*

*Use the registration link on the left to REGISTER ONLINE TODAY!*

## **SPEAKER HIGHLIGHTS:**

*Dr. E. Raymond Hunt, Jr., USDA/ARS, will be presenting recent research on the use of AWIFS shortwave infrared band (Band 5: 1.50 to 1.70  $\mu\text{m}$  wavelength) for the prediction of vegetation water content. Data from many different land cover types show there is a relationship between the normalized difference of Band 4 (near-infrared: 0.77 to 0.86  $\mu\text{m}$  wavelength) and Band*

5 and total water content of the canopy. This information needs to be combined with other data to estimate vegetation dryness for predicting irrigation needs and wildfire potential.

Ray is a Research Physical Scientist with the Hydrology and Remote Sensing Laboratory at Beltsville Agricultural Research Center, USDA Agricultural Research Service. He earned a PhD in Botany with emphasis in plant physiology and ecology from the University of Michigan. Furthermore, he is the ARS lead scientist in a cooperative research and development agreement with USDA-FAS and ASRC-MS to develop future data products for the Crop Explorer website.

***Dr. Dmitry Varlyquin, Vice President and Chief Scientist at GDA Corp.,***

will be presenting examples of the operational use of ResourceSat imagery for the regional analysis of agricultural conditions and generation and delivery of regional datasets.

Over the last several years at GDA, Dr. Varlyquin has been a driving force behind the development of an extensive product and service portfolio in the agribusiness intelligence arena, and in the operational provision of both current and projected global commodity crop information. He holds a doctoral degree in Geography (with emphases on GIS and Remote Sensing) from Clark University (MA, USA) and has 20 years of experience working with GIS and image processing systems and a range of commercial and public remotely sensed data. For additional information about GDA Corp please log onto: [www.gdacorp.com](http://www.gdacorp.com)

***Gyanesh Chander, USGS EROS,*** will be speaking on the ability to

detect and quantify changes in the Earth's environment depends on sensors that can provide calibrated, consistent measurements of the Earth's surface features through time. A critical step in this process is to put image data from different sensors onto a common radiometric scale. This work focuses on monitoring the long-term on-orbit radiometric stability of the Landsat 7 (L7) Enhanced Thematic Mapper Plus (ETM+), Indian Remote Sensing Satellite (IRS-P6) Advanced Wide Field Sensor (AWiFS) and Terra Moderate Resolution Imaging Spectroradiometer (MODIS) sensors using the Railroad Valley Playa, Nevada (RVPN) and Libyan Desert sites.

Gyanesh received the M.S. degree in Electrical Engineering from South Dakota State University (SDSU), Brookings, in 2001. He is currently a Lead Systems Engineer with SGT, Inc., at the U. S. Geological Survey (USGS) Earth Resources Observation and Science (EROS) Center, Sioux Falls, SD. His primary responsibilities at EROS include satellite sensor characterization and calibration research to support on going radiometric projects. Current research focuses on cross-calibration between various sensors from different platforms for mission continuity, thereby providing consistent measurements of Earth's surface features. He is a member of the international Committee of Earth Observation Satellites (CEOS) and actively participates in the Working Group Calibration Validation (WGCV) and Infrared Visible and Optical Sensor's (IVOS) subcommittee meeting.