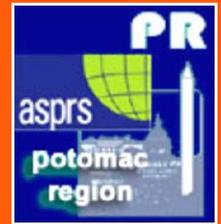




AMERICAN SOCIETY PHOTOGRAMMETRY AND REMOTE SENSING - POTOMAC

ASPRS-Potomac Region Newsletter



IN THIS ISSUE

Letter from the President

by John Manzer President Potomac Region ASPRS

Thus far this year we have had two great tech-tours at **USGS** and **Intergraph** – each followed by socials held at Jacksons Reston Towne Center, contacted lapsed members, done a monthly out-reach to new members via LinkedIn, and planned the GeoTech Conference – including a post conference social for all members, funded the social for the National Spring Conference in Baltimore 2013, and chaired the outreach for User Group Meeting at the Baltimore conference.

I would also like to thank **Gregory I. Snyder**, Manager, Lidar Program Development for the USGS Land Remote Sensing Program. Greg planned, coordinated, and hosted the USSG Tech-Tour on May 16, 2012, and provided summary presentation material for the Newsletter. **THANK YOU, Greg!**

This is your official invitation, please be active with us in the Potomac Region, by attending GeoTech Oct 25-26, 2012

GeoTech 2012 Conference:

<http://www.asprspotomac.org/geotech2012>

We have a great technical program planned that includes workshops and presentations focused on a Theme: **"Human Geography is much more than Human Terrain"** Subtopics: Elevation Data Sources and Reference Systems.

Don't miss it!

In our next issue of the Potomac Region ASPRS Newsletter we will feature the Tech-Tour at Intergraph, and provide a summary of the upcoming GeoTech Conference.



USGS Tech Tour

This newsletter features the Tech Tour hosted by USGS on May 16th 2012 .

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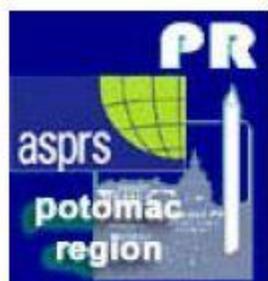


GeoTech 2012 Oct 25-26 Fair Oaks Marriott

The technical program has been finalized, and exhibitors and sponsors are ready for the conference event. Our keynote presentation will be given by Dr. Jerome (Jerry) Dobson University of Kansas and President of the American Geographical Society. Please join us!

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<http://www.asprspotomac.org/geotech2012>

	<p style="text-align: center;">GEOTECH2012</p> <p style="text-align: center;">October 25-26, 2012</p> <p style="text-align: center;">HUMAN GEOGRAPHY IS MUCH MORE THAN HUMAN TERRAIN</p>	
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The Conference opens at 0900h on Thursday October 25th with four professional workshops (see schedule below)

Friday October 26th is a plenary session with technical papers following the Keynote.

For registration go to: <http://www.asprspotomac.org/events.htm>

Keynote Speaker Friday October 26th at 9.15.a.m.



-- Dr. Jerome (Jerry) E. Dobson --

Professor of Geography, University of Kansas

President, The American Geographical Society

Jefferson Science Fellow, National Academies

and The Department of State,

All sessions will be held in the conference hotel:

Fairfax Marriott at Fair Oaks 11787 Lee Jackson Memorial Highway · Fairfax, Virginia 22033 USA

<http://www.marriott.com/hotels/travel/iadmo-fairfax-marriott-at-fair-oaks/>



<http://www.asprspotomac.org/geotech2012>



Intergraph Tech Tour

On September 13, 2012 the Potomac Region held its second Tech-Tour hosted by Intergraph.

More details coming on this regional event in the Winter Newsletter edition.

The Potomac region experienced a first ever in Tech-Tour history; **stay tuned for details.**



USGS Tech Tour

While this newsletter provides only a brief summary of the USGS Tech Tour, we are pleased to be able to make available online a detailed description of the tour, including many of the charts and other material presented:

<http://www.asprspotomac.org/usgs.htm>



USGS Tech Tour

by Yogen Singh Historian ASPRS

The ASPRS PR Tech Tour at the USGS was held on May 16th, 2012 for the ASPRS members and member institutions. It was an outstanding afternoon technical program covering wide ranging topics and projects currently being pursued in the USGS Mapping, Remote Sensing and Geographic Science areas. The presentations included nine different topics and eleven speakers. All speakers and senior scientific staff are experts in their field. Collectively, the presentations provided an understanding and appreciation of the importance of various ongoing programs focused on developing geospatial data and solutions of national importance.

The tour presentations were coordinated by Mr. Greg Snyder, Manager of LiDAR Program Development, in the USGS Land Remote Sensing Program. Greg welcomed member participants and introduced the agenda and speakers.

The tech tour was organized in two segments. The first part provided an overview of three major USGS programs. The second part covered key projects dealing with remote sensing data acquisition, updates, research and applications. **Overviews of Major Programs:**

A summary of three programs and presentations follows. More details of presentations can be found online on the ASPRS Potomac Region website.

(1) The National Geospatial Program: by Vicki Lukas, Chief, National Geospatial Program (NGP) Partners & Users Engagement.

Ms. Lukas provided an excellent overview of the role and strategic direction of the National Geospatial Program. The program prioritizes requirements within key communities of use including water, natural resources, geological mapping, and natural hazards. The presentation emphasized the National Geospatial Program's focus on USGS' core topographic mapping missions related to elevation and hydrography data collection and maintenance. http://www.asprspotomac.org/usgs-tour-05162012/USGS_NGP_May16_2012.pdf



(2) Landsat Program Status: by Thomas P. Clines, Land Remote Sensing Deputy Program Coordinator.

Mr. Clines closely works with Land Remote Sensing Program Coordinators on all aspects of program planning, management, budget, resources, and allocation in addition to supervision of headquarters staff. He provided an excellent background of the Landsat Program touching on program history, the role of DOI and USGS in the U.S. National Space Policy (2010), the expected launch of Landsat 8 in February of 2013, and plans for Landsat 9. http://www.asprspotomac.org/usgs-tour-05162012/USGS_LRS_May16_2012.pdf



(3) Geographic Analysis and Monitoring Program (GAM), Land Use Change Mission Area: by Jonathan H. Smith, Program Coordinator Geographic Analysis and Monitoring.

Mr. Smith provided detailed information and examples of the GAM Program's objectives. GAM conducts long term studies of the land cover and disturbance histories of the United States and selected overseas areas in order to determine the reasons for and the impact of land surface changes. http://www.asprspotomac.org/usgs-tour-05162012/USGS_GAM_May16_2012.pdf

Major Data and Geographic Science Projects

(4) Natural Hazards Response and Data Delivery (NHR&GDD): by Bob Bewley.

Mr. Bewley is the Chief, of the Office of Natural Hazards Response and Geospatial Data Delivery, National Geospatial Program. His office coordinates the acquisition and provision of satellite imagery and authoritative geospatial information for use in disaster preparations, rescue and relief operations, damage assessments, and reconstruction efforts. The primary goal is to provide the latest and most accurate geospatial information to emergency responders and concerned users. http://www.asprspotomac.org/usgs-tour-05162012/USGS_Hazards_May16_2012.pdf





(5) Three Dimensional Elevation Program (3DEP): by Co-presenters, Jim Mauck and

Greg Snyder.

Mr. Snyder is the Manager, of LiDAR Program Development in the USGS Land Remote Sensing Program and Mr. Mauck is the Manager, Elevation Products and Services of USGS National Geospatial Program.

Mr. Snyder led a recently completed national assessment study of national elevation data requirements and benefits. Following the study and evaluation of the cost benefit results, he participated in the development of a USGS 3D Elevation Program (3DEP) model to improve the overall accuracy, quality and versatility of elevation data covering the continental U.S. Mr. Mauck is responsible for the operational elevation component of the National Geospatial Program. He is helping to define the requirements for developing and managing elevation data product life cycles, and for multi-year data acquisition plans. Both presentations provided an excellent overview of their respective activities.

http://www.asprspotomac.org/usgs-tour-05162012/USGS_3DEP_May16_2012.pdf

(6) US Topo/Map Viewer: by Mike Cooley and Rob Dollison.

Mr. Cooley, as Graphic Product and Service Manager, provides guidance and oversight over digital topographic mapping graphics program. The US topo products contain enriched multiple digital data sets structured in 7.5' quads akin to USGS paper topo mapping products. http://www.asprspotomac.org/usgs-tour-05162012/USGS_US_TOPO_May16_2012.pdf

Mr. Dollison is the Manager National Map (TNM) Delivery Products Services. National Digital Map products and services meet the needs of a wide base of customers from all sectors of the governments, industry and academia and the public for a variety of applications and use. Both the presentations provided an excellent overview of the current mapping capabilities and products. http://www.asprspotomac.org/usgs-tour-05162012/USGS_US_TOPO_May16_2012.pdf

(7) National Hydrography Dataset (NHD) and Watershed Boundary Dataset (WBD): by Michael A. Domaratz, Chief, Planning and Budget Development, National Geospatial Program.

Mr. Domaratz oversees strategic and annual budget development and planning, financial execution, and performance goal-setting and measurement for the National Geospatial Program.

He gave an excellent overview of the NHD and WBD geospatial data and applications. NHD is composed of the Nation's surface waters, direction of water flow, and a "reach code" linear reference system through which water quality, quantity, and other characteristics can be geocoded to the stream network and analyzed. The WBD database supports applications such as the modeling of upstream and downstream relationships for places on the stream network, and the calculation of the area that drains to any point on the stream network. Future data maintenance activities include the addition of constructed drainage channels in urban areas, and the updating of the courses of streams and water bodies from the LiDAR data. http://www.asprspotomac.org/usgs-tour-05162012/USGS_NHD_May16_2012.pdf

(8) Biophysical Remote Sensing: by Dr. John Jones

Dr. Jones is a Research Geographer in the Eastern Geographic Science Center (EGSC) focusing on incorporating land cover dynamics in process modeling and resource management. He leads the Biophysical Remote Sensing Research Projects. The goal of the Biophysical Remote Sensing Research is to design and implement experiments that develop advanced data mining, fusion, and evaluation techniques to create biophysical remotely sensed data models. Projects are developed for key scientifically important regions of the eastern United States.

John highlighted current progress in the development of a surface water area and associated essential climate variable and vegetation characterization for use in hydrologic modeling in the Florida Everglades. It was an impressive presentation. http://www.asprspotomac.org/usgs-tour-05162012/USGS_Biophysical_RS_May16_2012.pdf





(9) USGS Library Tour: by Richard L. Huffine

Director, USGS Libraries Program, Core Science Systems, US Geological Survey

This was the last but the most exciting part of the Tech Tour. Mr. Huffine is the 12th Chief Librarian of the USGS since started in 1882. He manages all aspects of the USGS Libraries Program including branch libraries in Reston, VA; Denver, CO; Flagstaff, AZ; and Menlo Park, CA. USGS Libraries support the core research requirements of USGS researchers and manage the world's largest collection of materials in the earth and natural sciences. The USGS Libraries are also open to the general public and support research at institutions world-wide through interlibrary loan and international exchange programs.

A tour of the USGS Library in Reston, Virginia highlights both the broad scope of research areas that USGS researchers are engaged in on a daily basis. The USGS Library contains the published record of earth and natural history research going back as far as 1502 and including significant events including the discovery of the Hope Diamond, the exploration of the American West, and the earliest record of major advancements in science including volcanic research, identification of plate tectonic theory, and the discovery of mineral resources throughout the world. The tour also highlights the significant achievements made possible by cartographic and geographic information sciences. Both early and modern examples of maps and satellite imagery are collected to demonstrate the evolution of practice in the understanding of our world today.



ASPRS 2013 Annual Conference *Confluence by the Bay -* A Gathering of Geospatial Insights

Baltimore, Maryland USA * March 24-28, 2013 * Baltimore Marriott Waterfront Hotel

Join the American Society for Photogrammetry and Remote Sensing (ASPRS) for the **2013 Annual Conference** as we return to Baltimore, Maryland, March 24 - 28, 2013. The conference theme: ***Confluence by the Bay - A Gathering of Geospatial Insights***, refers to the "coming together" of researchers and practitioners for the purpose of open dialogue with respect to the most recent advances in geospatial analysis. The term "confluence" also has meaning in the assessment of the three earth's spheres (hydrologic, terrestrial, and atmospheric) via remote sensing; very apropos for our conference location on the eastern seaboard of the United States.

Year 2013 promises to be an encouraging period due to the successful launch (fingers crossed!) of the LDCM Earth observing satellite (January 2013). We anticipate first look imagery from Landsat 8 will be presented at our conference!

As the Potomac Region hosts the 2013 ASPRS National conference "Confluence by the Bay", the Potomac board of directors voted in favor to fund the Social, so that members could continue to benefit from the tremendous opportunity to network with your peers. Please join us!

