

Potomac Perspectives

Newsletter of the
American Society for Photogrammetry and Remote Sensing
Potomac Region

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President's Note

Reawakening

Welcome to the reinvigorated newsletter of your ASPRS Potomac Region!

Our objective in this document and the editions that follow is to keep you informed of the activities past and future in the Region in the hopes of maximizing the benefit you gain from membership.

We believe that the key to a strong Region is excellent communication with its diverse and dispersed members. Furthermore, we believe that a membership that feels informed, included and valued will be the best ambassadors to ASPRS and will ensure the Society a strong future. This newsletter and the enhanced website are two key elements in that strategy.

We are committed to facilitating resources and events that provide value to you and our chosen profession.

I hope you will find this newsletter informative and useful and I hope to see many of you contributing to future versions and Potomac Region events.

I encourage you to explore the Potomac Region's new web site and join later this month in Silver Spring at NOAA Headquarters for GeoTech 2005. I further encourage you to make the Potomac Region *your* region by participating and contributing in any way you can.

Sincerely,

Nate Smith
President ASPRS Potomac Region



Past Region President Brad Doorn thanks Dr. Murray Felsher for his speech to the Region. See the Region's web site for a full transcript.

National Scene

Pecora 16 Fast Approaching!

As Steering Committee Chairman of the **16th William T. Pecora Memorial Symposium**, I am delighted to invite you to join us in Sioux Falls, South Dakota, October 23-27, 2005 for an exciting technical exchange. We will examine the full range of issues around the theme of "Global Priorities in Land Remote Sensing." The Symposium will continue the Pecora tradition of focusing on the applications of satellite and other land remote sensing data to study, monitor, and manage the Earth's land surface. Concurrent sessions will be held that address Land Use/Land Cover, Wildlife/Biodiversity, Water/Wetlands, Forestry, Environment, Data Archiving, Policy Issues and more. Dr. James Merchant and his technical program team have organized an outstanding program that will highlight

technical accomplishments and policies of today and provide a forum for discussions of land remote sensing needs of tomorrow.

Gene Whitney, Senior Policy Analyst, for the Environment Office of Science and Technology Policy, Executive Office of the President, is scheduled as the keynote speaker for our Symposium. Other Plenary sessions include: Advancing Scientific and Practical Applications of Remotely Sensed Data; Data Availability, Access and Preservation; Advancing the Technology of Remote Sensing; and Securing a Stable Future for Satellite Land Remote Sensing.

The Symposium will also include an evening reception at the USGS National Center for Earth Resources Observation and Science (EROS) The EROS Center will host a lively social event and an open house for conference participants.

The combination of technical sessions, policy discussions, posters, workshops, and exhibits will make for a special opportunity for those involved in land remote sensing to share experiences, successes and ideas.

Please don't miss this opportunity to gather in the

beautiful U.S. Upper Midwest in October.

James A. Sturdevant
Steering Committee Chair
Reprinted from:
<http://www.asprs.org/pecora16/index.html>

GeoTech Set for Sept. 27 & 28

Still time to register, sponsor and exhibit!

We are very excited for GeoTech 2005! The conference, in its thirteenth year, will be hosted again at NOAA's National Geodetic Survey in Silver Spring, Maryland. We have brought together a knowledgeable group of geospatial professionals to lead informative workshops and technical sessions covering new developments in our industry. The theme of this year's conference will be on geospatial standards. With the continued development of the interoperability of computers, Web environments and commercial products, it was very applicable to focus on the standards that make all of this interoperability possible.

The success of this unique, focused two-day event has always been in its format of offering experts on the front lines of the geospatial industry. The first day,

Region Mourns Loss of Abe Anson

By Yogen Singh
Potomac Region Historian

Lt. Col. Abraham Anson (94), ASPRS Potomac Region Emeritus Historian, passed away peacefully in his sleep on May 29, 2005 of a heart attack. An Region elder and ASPRS member for nearly six decades, Anson received the ASPRS Fellow Award in 1997 for his unselfish contribution to the science and the Society as Associate Editor for both the Manual of Color Aerial Photography and the first edition of the Manual of Remote Sensing, and editor of the Proceedings of the Aerial Photography Workshop for the Plant Sciences, as well as many other key literary contributions.

Abe is survived by his daughter Myra and was married to Stella Anna Greenstein until her death in 1984. He was a great friend of ASPRS and a great American. Please visit the Region website for a more complete background on Abe's life.

September 27, 2005, will offer a series of three hour workshops where attendees learn about cutting edge technology. We have ESRI discussing the implementation of standards for their popular product suite. The second workshop will be given by Dr. Charles Toth from the Center of Mapping, the Ohio State University. His workshop will focus on Airborne Digital Camera Systems. David Doyle from NOAA National Geodetic Survey will be educating attendees on Datums, Projections and Mapping Basics for GIS for our fourth workshop. Matt Felton of the Towson University CGIS rounds out the workshops with a session on distributed GIS for emergency management.

On September 28, 2005, attendees can chose from a series of technical sessions while also stopping by the booths representing leading organizations in the Mapping, Imaging, GPS, and GIS marketplace. Located near the nation's capital, GeoTech is also an excellent place to network with professionals from government, academia, and commercial entities. Don't miss out on this exciting event!

Please see the preliminary agenda on the last two pages of this newsletter.

More information on GeoTech 2005 can be found at...
www.asprspotomac.org/geotech05/

Upcoming Events

Other Conferences of Interest!

Silviscan: Lidar Application in Forest Assesment and Inventory

Sept. 29 to Oct. 1, 2005
 Join us to learn about recent developments in monitoring forest resources using airborne and terrestrial Lidar systems. The Potomac Region is a proud sponsor of Silviscan.

<http://cears.fw.vt.edu/silviscan/index.html>

On the Radar

Seeking Ideas for Technical Tours

The Potomac Region has a great history of sponsoring technical tours of interesting facilities relevant to the interests of our membership and we are seeking ideas and offers from individuals to host

such events. Typical attendance is about 40, but can be capped if necessary.

Contact any PR Region Board member with your suggestions.

Always Looking for Few Great Volunteers

The quality and quantity of the events and services provided by the Potomac Region are all the result of hard work by volunteers. We encourage you to become an active member and are in need of motivated professionals who have the time and commitment to help keep the Region growing.



Region President Nate Smith and Historian Yogen Singh man the booth at the [Towson GIS](#) Conference in March.



American Society for Photogrammetry and Remote Sensing (ASPRS) — Potomac Region

www.asprspotomac.org

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GeoTech 2005 Workshop Agenda – September 27, 2005

Registration 8:30am - 9:30am

Workshop 1

<p>9:30am - 12:30pm</p> <p>Dan Zimble & David Danko, ESRI, Inc.</p> <p>Implementing standards for interoperability</p>	<p>For more than 25 years, ESRI has built open and interoperable commercial off-the-shelf software products. Our current products have appropriate open application programming interfaces and support key data interchange formats and Web services standards for ensuring relevant GIS and IT interoperability between systems over wired and/or wireless networks. Recently, ESRI launched a major initiative to re-architect its GIS product line to adhere to important, emerging IT and GIS standards (e.g. W3C, ISO, and OGC). The objectives of this exciting workshop are to provide an overview of the advantages of, and pathways to, implementing interoperability standards with the entire suite of ESRI products.</p>
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Workshop 2

<p>9:30am - 12:30pm</p> <p>Dr. Charles Toth, Center for Mapping, The Ohio State University</p> <p>Airborne Digital Camera Systems</p>	<p>The objectives of this workshop are to provide an overview of recent advances in digital imaging technology and to familiarize the participants with modern digital camera systems, including image formation, geometrical and radiometrical calibration, image representation, orthophoto production, and an insight into basic image processing, interpretation and data fusion tasks. The workshop will provide theoretical material with hands-on practical experiences. Sample multi-sensor data sets, collected by state-of-the-art airborne sensors in a variety of projects, will be demonstrated.</p>
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Lunch 12:30pm - 1:30pm

Workshop 3

<p>1:30pm - 4:30pm</p> <p>Matthew S. Felton, Center for Geographic Information Sciences)</p> <p>(http://cgis.towson.edu)</p> <p>GIS Tools for Emergency Management</p>	<p>The state of Maryland has established a statewide data interoperability model for sharing data across jurisdictional and agency boundaries at all levels of government. This process began by making a spatially enabled "suite of emergency management tools" available to all state agencies and local emergency operation centers. Maryland's success has been recognized by local, state, and federal agencies and has generated a great deal of collaboration and support from multiple, disparate agencies. The process and architecture is easily replicable in other states. This workshop will provide an overview of these activities and share best practices and lessons learned from Maryland's experience.</p>
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Workshop 4

<p>1:30pm - 4:30pm</p> <p>David Doyle, National Geodetic Survey, NOAA</p> <p>Datums, Projections and Mapping Basics for GIS</p>	<p>This seminar presents the fundamentals of geodetic datum and coordinate reference systems as they apply to the development of Geographic Information Systems (GIS). Specifically addressed are the definitions of the Horizontal (North American Datum of 1927 and North American Datum of 1983), and Vertical (National Geodetic Vertical Datum 1929 and North American Vertical Datum of 1988) reference systems, and the relationship of State Plane and Universal Transverse Mercator Grid Coordinates. Particular attention will be given to the continuing improvements of the National Spatial Reference System (NSRS), including High Accuracy Reference Networks, Continuously Operating Reference Systems (CORS), the design and implementation of a local GPS network and the importance of Federal, State and local cooperative activities.</p>
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GeoTech 2005 Plenary Session & Exhibits – September 28, 2005

Registration & Refreshments 8:00am - 8:30am

8:30am - Conference Welcome and State of the Region Address: NGS NOAA TBD/Nate Smith,
 9:00am President, Potomac Region of ASPRS
 Keynote Speaker: Karen Schuckman, ASPRS President

9:00am -
 9:30am Strategic Directions of ASPRS - An overview of the strategic planning process and major initiatives

9:30am - Refreshments and Exhibits
 10:00am

Morning Sessions

10:00am - Technical Session I
 11:45am Moderator - Dave Szymanski

- 1 Pictometry: An Oblique Perspective on Hurricane Damage Assessment
 Thomas D. Burns, District Directory of the Chesapeake Region, [Pictometry Intl.](#)
- 2 Lidar Accuracy Standards and Lidar QA/QC
 David Maune, [Dewberry Inc.](#)
- 3 AmericaView: Promoting Satellite Remote Sensing in Support of K-16 Education, Workforce Development and Technology Transfer
 John M. Morgan, III Ph.D [Center for Geographic Information Sciences](#), Towson University

11:45am - Free Catered Lunch and Exhibits!!
 1:00pm

Afternoon Sessions

1:00pm - Technical Sessions II
 2:30pm Moderator – Amy Becker

- 4 Evolving GIS Implementation and Management Issues: How New Geospatial Technologies and Standards Are Changing Perspectives and Practices
 Rebecca Somers, [Somers-St.Claire, GIS Management Consultants](#)
- 5 Current Technologies in Mapping Sciences: The Digital Advancements
 Chris Barnard, [Earthdata International](#)
- 6 Open Geospatial Standards and .NET – A Recipe for Interoperability
 Jeff Harrison, President, [The Carbon Project, Inc.](#)

2:30pm - Refreshments and Exhibits
 3:00pm

3:00pm - Technical Session III
 4:30pm Moderator – Dr. Barry Haack

- 7 Investigating Digital Cameras for Integration into NOAA's Mapping Programs
 Stephen White, [NOAA NGS Remote Sensing Division](#)
- 8 Overview of Processing, Compressing, Serving JPEG 2000 imagery
 George Davis, Regional Manager/Applications Engineer, [ER Mapper](#)
- 9 Mapping Crime in the Baltimore/Washington Region
 Kevin Armstrong, Program Manager [WB-HIDTA](#)

A special Thank You to GeoTech host NOAA National Geodetic Survey and sponsors to date Observera, Greenhorne & O'Mara, Earthdata, Pictometry, URISA Chesapeake Chapter and the Virginia GIS Conference.