



American Society for Photogrammetry and Remote Sensing

Potomac Region

THE IMAGING AND GEOSPATIAL INFORMATION SOCIETY

October 2019 Newsletter

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Upcoming Events in the Region

North Carolina ASPRS Chapter (NCASPRS) & ASPRS Potomac Region Coastal & Marine Remote Sensing Technical Day | 15 November, 2019 | Newport and Beaufort, NC

More information: (919) 609-8162 or ncasprs@gmail.com

USGIF Machine Learning and Artificial Intelligence Workshop | November 19-20, 2019 | Springfield, VA

More information: <https://usgif.org/events/workshop-series/machinelearning>

ESRI Federal GIS Conference | February 10-12, 2020 | Washington DC

More information: <https://www.esri.com/en-us/about/events/federal-gis-conference/overview>

Geo Week | March 23-25, 2020 | Washington, DC

More information: <https://conferences.asprs.org/geoweek-2020/>

Highlights and Features

North Carolina ArcGIS Users Group Fall Conference

Since the reboot of the NC Chapter of the American Society for Photogrammetry & Remote Sensing (NCASPRS) in 2018 there has been a close connection with NC ArcGIS Users Group (NCAUG) including active coordination with meetings and symposiums. The 2019 NCAUG Conference September 18th



through the 20th at the Hotel Ballast is the latest example of this teamwork. NCAUG's keynote for this year's conference was Jack Dangermond from ESRI and that, together with a well thought out agenda, sparked the largest attendance to date for this conference of approximately 390 attendees. NCAUG invited NCASPRS to host a series of technical presentations Thursday afternoon from 1:00pm to 4:30pm. These presentations included in-depth information regarding drones, remote sensing and technical standards.

NCASPRS was a diamond sponsor for the event which provided us a strategic location to interact with the attendees. There was information available about the ASPRS standards, certifications and educational capabilities as well as publications that are available from ASPRS. This information was well received and

the booth allowed us to engage with several potential new members attending this conference. NCASPRS reached out to several universities to participate in this event with us. University of North Carolina (UNC), Wilmington provided us with students to help man the booth. There are also several student organizations currently in the process of starting school charters. We also collaborated with UNC Wilmington to showcase student activities and research in our technical sessions.



Our Technical Sessions included: Jamie Gray with Stewart discussing ASPRS standards and specifications. Paul Badr with Greenman-Pedersen, Inc. (GPI) covering remotely-sensed data and processing transmission modeling, Dr. Leila Hashemi Beni with A&T University covering renewable energy siting in NC, and Jon Sellars from NOAA discussing NOAA's emergency response image processing. We also had two students from Wilmington, Sam Bradtke and Joshua Slocumb, covering volumetric change analysis and multispectral satellite and UAV to estimate salt marsh wetland carbon sequestration in Wrightsville Beach, NC.

Student Chapter Highlights

The Potomac Region is honored to support Student Chapters at a number of academic institutions throughout the region. In the June 2019 Newsletter, we featured recent activities with West Virginia University Remote Sensing Club/ASPRS Student Chapter. This newsletter gives us the opportunity to highlight activities at University of North Carolina - Charlotte. Faculty Advisor, Dr. Gang Chen, provided the following information on a near-term event organized by the UNC Charlotte Student Chapter.

ASPRS University of North Carolina – Charlotte Student Chapter

The ASPRS UNC Charlotte Student Chapter is partnering with the Department of Geography and Earth Sciences at UNC Charlotte to organize a student-focused technical tour to Esri Charlotte on Friday, November 8, 2019 (11:30am to 1:30pm). The tour will discover the Esri support floor, share lunch with Esri employees, and have presentations from former UNC Charlotte students who are now Esri employees. The maximum capacity is 25 students and there is no cost for the tour. The event is open to students attending other universities. Please contact Dr. Gang Chen (gang.chen@uncc.edu) if you are interested.

Region Business Update

ASPRS Potomac Region Annual Meeting Save the Date, February 9, 2020

Each year we come together for the Potomac Region Annual Meeting and Dinner. Last year, despite interference from Mother Nature causing rescheduling due to weather, we gathered a good crowd and made our first steps to become more regionally inclusive through web connectivity to the business portion of the meeting. This year we intend to continue on that path and will incorporate, as possible, the feedback received from last year's participants.

Our 2020 Annual Meeting is tentatively scheduled for **Sunday, February 9, 2020 at Maggiano's Little Italy in McLean VA**. Stay tuned for more information via region emails on the program and featured speakers as well as how you can participate even if travel to the DC area is a challenge. We look forward to the opportunity to come together as a region and renew our connections!

Highlights from Social Media

In 2019 as part of our goal to make and renew connections, the Potomac Region is increasing its use of social media starting with Facebook at <https://www.facebook.com/asprspotomac/>. In addition to reminders about national and regional events, you'll also find shared articles on all topics geospatial. Here is a sampling of our posts since the June newsletter:

The Commuting Principle That Shaped Urban History. From ancient Rome to modern Atlanta, the shape of cities has been defined by the technologies that allow commuters to get to work in about 30 minutes. An article from CityLab.

Here's What This Map Of D.C. Intersections Says About Our Streets. An article published by dcist highlighting the hazards of where our roads cross.

Nobody Wants to Let Google Win the War for Maps All Over Again. An article from Medium .

Lasers are driving a revolution in archaeology. A National Geographic article on how LiDAR technology is changing the discovery of ancient sites and how developers approach unsurveyed land.

How Space Technology is Revolutionizing Archaeology. Sarah Parcak writes on finding the past in satellite imagery at Literary Hub.

May the Best Player Win: Geographical Board Games of the Past. An article by Julie Stoner on the Worlds Revealed: Geography and Maps blog at The Library of Congress.

To catch up on these posts and others, visit and follow the Potomac Region Facebook page.

Geo Week comes to DC + Regional Recommendations

The ASPRS Annual Meeting is now part of a multi-event collaboration, Geo Week including participation from several geospatial events. The inaugural edition of Geo Week which took place in 2019 brought together International Lidar Mapping Forum (ILMF), ASPRS, and MAPPS. Each event featured its own unique conference program and combined in a single exhibit hall and inclusive networking activities.

Information on Geo Week events can be found at <https://conferences.asprs.org/geoweeek-2020/>

In addition, if you're looking to expand your trip to Geo Week with some geo-historical tourism in the Washington DC area, the Potomac Region has gathered the following suggestions to make sure that your trip is all that.

Library of Congress

<http://loc.gov/exhibits/exploring-the-early-americas/>

"Exploring the Early Americas features selections from the more than 3,000 rare maps, documents, paintings, prints, and artifacts that make up the Jay I. Kislak Collection at the Library of Congress. It provides insight into indigenous cultures, the drama of the encounters between Native Americans and European explorers and settlers, and the pivotal changes caused by the meeting of the American and European worlds. The exhibition includes two extraordinary maps by Martin Waldseemüller created in 1507 and 1516, which depict a world enlarged by the presence of the Western Hemisphere."

<http://loc.gov/exhibits/mapping-a-growing-nation/>

"Abel Buell's New and Correct Map of the United States of North America is the first map of the newly independent United States compiled, printed, and published in America by an American. This important early American map is known to exist in only seven copies. Philanthropist David M. Rubenstein has generously placed his copy of the map at the Library.

Mapping a Growing Nation: From Independence to Statehood comprises maps of the northeastern and southeastern regions of the United States. Over time, maps of all fifty states will be included in this online exhibition."

DC History Center

<http://www.dchistory.org/exhibits/>

"HistoryQuest DC is an interactive map with historical data on approximately 127,000 buildings in Washington, DC. Users will find information from a variety of sources on the original dates of construction, architects, builders, and owners.

In addition to this historical data, the map contains links to information on properties listed in the National Register of Historic Places. Helping to orient users are boundaries for historic residential subdivisions, the original L'Enfant Plan, and the city's squares, and wards.

A query tool that facilitates research, the HistoryQuestDC map evolved from the DC Historical Building Permits Database project and remains a work in progress."

"Window to Washington features art, archives, and photographs from the **Kiplinger Washington Collection**, one of the Historical Society's most important collections.

The exhibit explores the development of our nation's capital through a selection from the 4,000 rare works of artists, cartographers, and photographers who witnessed the city's changes."

“Wymer’s DC compares thousands of images from mid-20th century Washington, D.C. with modern images from Google Street View. Amateur photographer John P. Wymer, a statistician for the U.S. Bureau of Standards, roamed the city between 1948 and 1952 determined to photograph every street and building. Most of the pictures were taken on weekends and holidays.

Each of the historic images is matched with its modern-day counterpart and overlaid on an interactive map.”

NASA Goddard

<https://www.nasa.gov/centers/goddard/visitor/home/index.html>

Permanent exhibits include Decade of Light: A Space Communications and Navigation Exhibit, GLOBE Hall, and Neighborhood Earth,

National Air and Space Museum

Time and Navigation Exhibition, the untold story of getting from here to there.

<http://timeandnavigation.si.edu/>

Steven F. Udvar-Hazy Center, National Air and Space Museum

Fairchild mapping camera

<https://airandspace.si.edu/collection-objects/camera-aerial-mapping-fairchild-t-2a>

Space Shuttle Radar Topography Mission Canister, Antenna

<https://airandspace.si.edu/collection-objects/canistermast-shuttle-radar-topography-mission-payload>

DC Surveying History

DC boundary stones - Stones set at original boundary of District of Columbia

<http://www.boundarystones.org/>

Jefferson Pier Stone

https://en.wikipedia.org/wiki/Jefferson_Pier

Benjamin Banneker

African-American astronomer and surveyor, participated in setting the boundary stones. His ephemeris is on display at National Museum of African American History and Culture.

http://edan.si.edu/slideshow/viewer/?damspath=/Public_Sets/NMAAHC/NMAAHC_Slideshows/2014_63

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