

ASPRS EGLR Fall 2019 DRAFT Meeting Agenda

Introductions 8-8:15

8:15 - 8:45

Craig Fry (Thrasher)

Presentation title: **A Discussion of Customers Uses for and Reactions to Geospatial Data; Collected and Delivered Using a Variety of Technologies**

Bio: Craig Fry began his photogrammetry career in 1996 working for Kucera International's Pittsburgh office. He has a degree in Geography from Penn State with a concentration in cartography, remote sensing, and GIS. Craig became an ASPRS certified photogrammetrist in 2007 after many years of project manager experience. Shortly after, Craig became the aerial mapping manager for Blue Mountain, Inc., which was acquired by The Thrasher Group in 2018. Craig's main areas of experience is in stereoscopic aerial mapping, aerotriangulation, and QA/QC and editing. Recently, Craig's duties have evolved into business development and project management more than technical work.

8:45 - 9:15

Colin Brooks (Michigan Tech Research Institute)

Presentation Title: **Next steps in UAS integration into Michigan DOT operations: Michigan Tech's Phase III project**

Bio: Colin is a Senior Research Scientist at the Michigan Tech Research Institute where he is the program leader for transportation and UAS research, and previously served as the manager of the Environmental Science Lab. He has over 25 years of experience in the application of remote sensing and GIS technologies to solving diverse problems in environmental assessment, transportation applications, changing ecosystems, agricultural areas, geohazard sites, and invasive species mapping. Mr. Brooks earned his Master of Environmental Management Degree with a focus in Resource Ecology from Duke University in 1993, his Bachelor of Science in Pre-Forestry from Lenoir-Rhyne College (Hickory, NC) in 1992, and is currently working on a mid-career PhD in Biology from Michigan Technological University. He has recently focused on developing, demonstrating, and deploying the capabilities of unmanned aerial systems for rapid, effective, safe, and timely collection of critical data with optical, thermal, and LiDAR sensors for integration into sponsor work flows.

9:15 - 9:45

Andrew Mitchell (Kucera)

Presentation title: **Photogrammetric and Remote Sensing Services for New Energy Sources**

Bio: Andrew is an aerial mapping project manager with 15 years of experience working in the lidar, photography, and remote sensing fields. He has planned and managed aerial projects involving energy, transportation, regional orthophotography/topography, coastal erosion/vegetation, and emergency response. Andrew is an ASPRS Certified Photogrammetrist and Certified Lidar Mapping Scientist. LiDAR point cloud analysis, and big data creation, analysis, and maintenance. In his spare time, he can be found

upland bird hunting in Pennsylvania forests, fishing for smallmouth bass in Appalachian streams, and chasing down his three children with his wife at a local park.

Break 9:45 – 10

10:00 - 10:30

Dr. Shawana Johnson (Global Marketing Insights)

Presentation title: **What's Happening In The World of Space Borne Platforms**

Bio: Dr. Shawana Johnson, GISP, President Global Marketing Insights, Inc. is a subject matter expert in commercial GIS and Geospatial Intelligence in leading edge technology areas such as global mesoscale satellite imagery, high performance geospatial cloud analytics and delivery, New Space and the internet of things data focused on Global Food Security, Water Resources, Energy and National Security. As CEO of Global Marketing Insights, Inc. she serves an international client base providing Geospatial Business Intelligence Expertise™ for Geospatial Data Interoperability Programs enabling federally developed technology transfers to the private sector for societal benefit. Her organization provides products focused on Geospatial Plans for: strategic sales, marketing and highly customized marketing research studies for the US government and global commercial organizations as well as marketing and product service plans for commercial organizations to provision to the US Government. Dr. Johnson has 25+ years of experience and has worked in and with over 180 countries developing GIS and Geospatial Value Added Distribution Networks, ground station networks and remote sensing academic training programs. She possesses a security clearance allowing her to serve the national security needs of the United States as they strive to understand the future impacts of commercial GIS and Geospatial Airborne and Spaceborne global technologies and assets as well as the multiple capabilities offered by New Space. She was recently awarded a certificate of completion for the Senior Managers in Government Program, 8/2019, John F. Kennedy School of Government at Harvard University, Executive Education and obtained her Doctorate Degree in Management (focused on Economics and Technology Transfer) from the Weatherhead School of Business from Case Western Reserve University, Cleveland, OH.

10:30 - 11:00

Jeremy Jurick – Michael Baker International

Presentation Title: **Capturing Impervious Surface Features within the City of Pittsburgh**

Bio: Jeremy Jurick is a GIT Technical Manager at Michael Baker International and has been implementing geospatial solutions for the past thirteen years. He is proficient in all aspects of the geospatial scope of services, including but not limited to python scripting, needs assessment, database design, map design,

11:00 – 11:30

Raechel Portelli (Michigan State University)

Presentation Title: **Phenological Impacts of Sheep Herding in Native Grasslands of China**

Bio: Dr. Raechel Portelli is an Assistant Professor of Geography at Michigan State University. Her research addresses the integration of object-based image analysis and visual cognition to quantify plant morphological and physiological traits. She received her PhD from Pennsylvania State University in 2014 for her dissertation research concerning the role of human cognition in the use of geovisual analytic remote sensing tools. Prior to her PhD Dr. Portelli received bachelor's degrees in Geography and

Environmental Sciences (2009) and a Master's Degree in Geography from the University of Idaho where she studied the use of object-based methods of remote sensing image analysis in a variety of applications including geology of Mars, coastal erosion, and forest composition in the Pacific Northwest.

11:30 – 12:00

Chad Snoke (GEOPRO)

Presentation Title: **Low Light Imagery For Use In Maintenance of Airports and Other Applications**

Bio: Chad Snoke, PS is the Vice President of Geopro Consultants, a 51% woman-owned small business, based in Dayton, Ohio. Mr. Snoke is a 2003 graduate of The Ohio State University where he earned Bachelor of Science in Geomatics Engineering. Today he is a licensed professional land surveyor and an expert of both FAA and ICAO mapping standards. He has completed more than 300 aeronautical surveying and mapping projects around the globe, including such far-flung locations as Kathmandu, Nepal and Cusco, Peru.

Lunch 12:00 – 1:30 pm

1:30 – 2:00

James Pardue (ikeGPS – Virtual Presentation)

Presentation Title: **Field Data Collection in a Mobile Device World**

Bio: James is the Senior Vice President of Sales of the Spike Business Unit at IkeGPS. He is a geospatial industry veteran with 27-years of distinguished service at the world's leading geospatial firms including Space Imaging, TomTom and now ikeGPS. James has a passion to change the way people explore, experience and collect information about our world. At ikeGPS James is leading that change with the launch of Spike – a dynamic field GIS measurement and GPS collection solution for mobile devices.

2:00 – 2:30

Eric Andelin (The Wantman Group – Virtual Presentation)

Presentation Title: **Finding the “Right Fit” for UAS Based LIDAR**

Bio: Eric Andelin, GISP is the UAS Program Manager at The Wantman Group. Eric has 35 years of experience in the mapping profession. Eric's Geospatial background includes: Survey, Aerial Photography, Photogrammetry, GIS and Laser Scanning. He is consistently seeking new technologies to further our profession.

2:30 – 3:00

Ryan McKinney (Descartes Labs – Virtual Presentation)

Presentation title: **Data Partners Role in a Machine Learning Environment on a Cloud Enabled High-Speed Platform**

Bio: Ryan McKinney is Head of Data Strategy and Partnerships at Descartes Labs. Prior to joining Descartes Labs, Mr. McKinney was director of Business Development and Data Strategy for Cyence Inc.

(acquired by Guidewires Software). Mr. McKinney leveraged the data repository built for the core business and successfully designed, built, and brought to market the first IT services cyber warranty solution backed by global leaders in the cyber risk insurance market. Previously, Mr. McKinney provided sales and business development leadership for other successful organizations, such as: Shadow Networks (acquired by Acavio) where he developed and maintained the largest existing customer relationships generating revenue with various government agencies and Fortune 500 corporations. Mr. McKinney also advises NGOs focused on providing lifesaving aide to our world's most vulnerable displaced populations, such as Global Refuge International, and leading edge startups building business driven insights leveraging non-traditional data sources.

3:00 – 3:30 BREAK

3:30 – 4:00

John “Woody” Woodard (Davey Resources Group) and Ryan Bowe (Woolpert)

Presentation Title: **Nuts and Bolts of GIS: An Artistic Way to Map**

Bio: Ryan Bowe was hired at Woolpert in October 2016 to be a Phase Manager. Since then she rapidly demonstrated her capabilities and dedication and is currently the Team Lead for Quality Control in Dayton, Ohio. She provides quality control and metadata for a range of geospatial programs including the National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Agriculture (USDA), Federal Emergency Management Agency (FEMA), Department of Homeland Security (DHS) and U.S. Army Corps of Engineers. Ryan has additional experience with the U.S. Geological Survey, where she provided metadata, seamline databases, and project reports for over 500,000 square miles of high-resolution orthoimagery and lidar. Ryan has also provided metadata for state, local, and municipal clients as well the Southwest Florida Water Management District (SWFWMD) and Departments of Transportation in Kentucky, Tennessee, and North Carolina.

4:00 – 4:05

Closing Comments

4:05 ADJOURN