Aerial Mapping Technologies and Procedures

Columbus, OH - Thursday, February 14, 2019

Learning Objectives

You’ll be able to:

Explore unmanned aircraft system (UAS) platforms.

Understand how to use UAS-based photogrammetry to cover large areas and create high-resolution topography models.

Learn how to use UAS photogrammetry for preservation of historic buildings.

Talk about mapping operations, including preflight planning and post-processing.

Discuss data processing software, including Pix4D, DroneDeploy, Autodesk, Agisoft and others.

Continuing Education Credits

Ohio Land Surveyors & Engineers
6.0 PDHs

Discuss preflight planning, and post-processing
Examine unmanned aircraft system data-processing software
Explore case studies

Overview of Aerial Mapping Technologies

B. Vander Jagt
Manned aircraft vs. unmanned aircraft systems (UAS)
UAS platforms: fixed wing and rotorcraft
UAS photogrammetry
UAS LiDAR

Photogrammetry for Historic Preservation

J. Davis
UAS based photogrammetry has proven to be a great technique to document historic buildings by creating high-resolution models that can be used for rehabilitation or basic documentation.
The ability to cover large areas relatively quickly with a UAS to create high-resolution topography models using photogrammetry has revealed new insights into some of Ohio’s most famous archaeological sites.

Mapping Using UAS

V. Brewer
Software set-up
Preflight planning
Flight operations and considerations
Post-processing

UAS Data-Processing Software

B. Vander Jagt
Pix4D   DroneDeploy
Autodesk   Agisoft
Others

Photogrammetry Demonstration/Case Study

B. Vander Jagt
Software demonstration
Working with control points
Deliverables

Agenda

Can’t Attend? Order the Manual and the Audio from the Live Seminar as a Self-Study Package!
An audio recording of this seminar is available for $289. Allow four weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.
Ben Vander Jagt, PhD  President & Co-Founder of PiXellement
Mr. Vander Jagt received a B.S. degree in Surveying from FSU, an M.S. degree in Photogrammetry from Purdue, and a Ph.D. degree in Geodetic Science from the Ohio State University.
Mr. Vander Jagt’s subject matter expertise and deep familiarity with target markets guides the product roadmap. When not making 3D maps for construction, engineering, and surveying, you can find him wandering about with a 2D map in hand, trying to find a new fishing spot.

Victor Brewer  Owner/Operator of Aerial Image Solutions
Mr. Brewer is an owner/operator of Aerial Image Solutions, a company that utilizes cutting edge equipment to stay on the forefront of drone technology, photography, and cinematography. Aerial Image Solutions specializes in low-altitude, high-resolution aerial photography services. Mr. Brewer and Aerial Image Solutions utilize customized unmanned drone aircraft as their camera platforms and strive to stay on top of the latest drones to provide the best aerial platforms for capturing stunningly clear, high-resolution video, photos, panoramas, and orbits.

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Continuing Education Credit Information
This seminar is open to the public. It offers 6.0 PDHs to Ohio professional land surveyors and professional engineers to whom the subject matter is professionally relevant. Educators and courses are not subject to preapproval in Ohio.
HalfMoon Education is an approved continuing education sponsor for professional land surveyors and engineers in Indiana (License No. CE11700009), Maryland, New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is also an approved education provider for Florida and New Jersey engineers (Approval No. 24GPD0000701).

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Tuition
( ) I will be attending the live seminar. Single Registrant - $279.00. Three or more registrants from the same company registering at the same time - $259.00 each.
( ) I am not attending. Please send me the self-study package for $289.00.

Additional Learning
Webinar Series
Commercial Solar Peaker Batteries
- Commercial Solar Peaker Batteries, Part I
  Wed., Jan. 9, 2019, 11:00 AM - 1:00 PM CST
- Commercial Solar Peaker Batteries, Part II
  Thurs., Jan. 10, 2019, 11:00 AM - 2:15 PM CST

Technical Writing
- Technical Writing Basics
  Mon., Jan. 14, 2019, 1:30 - 2:30 PM CST

Planning Documents
- Planning Documents
  Mon., Jan. 14, 2019, 1:30 - 2:30 PM CST

Fiber-Reinforced Composites
- Portland Cement and Masonry
  Thurs., Jan. 17, 2019, 11:00 AM - 1:00 PM CST
- Fiber-Reinforced Composites
  Thurs., Jan. 17, 2019, 1:30 - 3:30 PM CST
- Fiber-Reinforced Polymer (FRP) Composites Reinforcements
  Fri., Jan. 18, 2019, 11:00 AM - 1:00 PM CST
- Overview of Sandwich Materials and Structures
  Fri., Jan. 18, 2019, 1:30 - 3:30 PM CST

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