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  
B. Vander Jagt
- 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 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

Learning Objectives

You’ll be able to:

- Explore unmanned aircraft system (UAS) platforms, both fixed wing and rotorcraft.
- Understand how to use UAS-based photogrammetry to create high-resolution topography models.
- Learn about using UAS photogrammetry for preservation of historic buildings.
- Explore mapping operations, including preflight planning and post-processing.
- Discuss data processing software, including Pix4D, DroneDeploy, Autodesk, Agisoft, and others.

Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!
Audio recordings of this seminar are available for purchase starting at $279. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Aerial Mapping Technologies and Procedures
Livonia, MI - Friday, April 3, 2020

Understand aerial mapping technologies
Learn about creating high-resolution topographical models
Use photogrammetry for historic preservation
Explore case studies and real-world examples

Continuing Education Credits
Professional Engineers  
6.0 CE Hours
Professional Surveyors  
6.0 CE Hours
Webinar Series

- **Foundations in Cold Regions**
  - Introduction to Foundations in Cold Regions
  - Shallow Foundation Design in Cold Regions
  - Deep Foundation Design in Cold Regions
  - Foundation Construction in Cold Regions

- **Soil Mechanics and Slope Stability**
  - Soil Investigation and Classification
  - Reviewing Hydraulic and Mechanical Properties of Soils
  - Determining and Increasing Bearing Capacity
  - Determining and Increasing Slope Stability

- **Designing for Climate Resilience**
  - Current and Anticipated Climate Effects on Structures and Communities
  - Assessing the Impact of Sea Level Rise, Changing Temperature and Changing Weather Patterns
  - Studying the Impact of Extreme Weather
  - Events on Structures and Communities

- **Soil Investigation and Classification**
  - Webinar Series
  - Technical Series
  - Continuing Education Series

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  - Studying the Impact of Extreme Weather

- **Events on Structures and Communities**

- **Adapting Sites, Outdoor Spaces, New Construction and Existing Buildings to Withstand Extreme Weather Events**

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