Agenda

Presented by Paul Wheeler

The Present and Future of Unmanned Aircraft Technologies
- UAS platforms: fixed wing and rotorcraft
- Selecting UAS
- Uses - cases
- Future technologies

Commercial UAS Applications
- Agriculture
- Architecture and construction
- Engineering
- Environmental monitoring and compliance
- Defense and public safety
- Marketing, media and public relations
- Infrastructure development and maintenance

Mapping Using UAS
- Photogrammetry vs. LiDAR
- Sensor considerations
- Software set-up
- Preflight planning
- Flight operations and considerations
- Post-processing
- Data deliverables

Civil Engineering Applications for UAS
- Site inspection and site work
- Construction progress monitoring
- 3D modeling

Thermal Imaging with UAS
- What is thermal imaging?
- Wavelengths
- Industry use cases and benefits
- False positives and false negatives
- Cameras and settings
- Post-processing
- The importance of proper atmospherics

Learning Objectives

You'll be able to:
- Identify present and future unmanned aircraft technologies.
- Explore commercial UAS applications for engineering, architecture and construction, and infrastructure development and maintenance.
- Learn about UAS mapping procedures from software setup and preflight planning to post-processing.
- Explore civil engineering applications for UAS, such as site inspection and construction progress monitoring.
- Examine thermal imaging capabilities and discuss commercial applications.

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 $269. 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.

Unmanned Aircraft Applications for Engineers
Salt Lake City, UT - Friday, February 28, 2020

Discuss the present and future of unmanned aircraft system (UAS) technologies
Explore commercial UAS applications for architecture, agriculture, environmental compliance and public safety
Understand applications for UAS thermal imaging

Continuing Education Credits
This seminar offers 6.0 CPE hours/PDHs to professional engineers.
Faculty

Paul Wheeler is the Unmanned Aerial Systems program manager at the Utah Department of Transportation. He is an instrument-rated pilot and serves on multiple national committees to help foster innovation through the use of unmanned aerial systems (UAS). He was named one of the top seven drone visionaries in civil infrastructure by Commercial UAV Expo and is an internationally recognized speaker and innovator for UAS technologies.

Here’s what attendees had to say about presenter Paul Wheeler:

“Mr. Wheeler was well prepared and an excellent instructor!” - Civil Engineer

“Coming from a different background I have a much better understanding.” - Analyst/Drone Pilot

“Very useful information—extremely knowledgeable and answered questions with ease.” - Civil Engineer

“Excellent seminar! Paul was willing to answer questions and provide suggestions.” - Land Surveyor

Seminar Information

Marriott University Park
480 Wakara Way
Salt Lake City, UT 84108
(801) 581-1000

Registration
8:00 - 8:30 am
Lunch (On your own)
12:30 - 1:30 pm
Morning Session
8:30 am - 12:30 pm
1:30 - 4:00 pm
Afternoon Session

Tuition
$289 for individual registration
$269 for three or more simultaneous registrations.

Included with your registration:
Complimentary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of $101 by registering to be our on-site coordinator for the day.

How to Register
Visit us online at www.halfmoonseminars.org
Mail-in or fax the attached form to 715-835-6066
Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full refund, minus a $39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Registration
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How to Register
Online:
www.halfmoonseminars.org

Phone:
715-835-5900
Fax:
715-835-6066

Mail:
HalfMoon Education Inc.,
PO Box 278, Altoona, WI 54720-0278

Complete the entire form. Attach duplicates if necessary.

Tuition
( ) I will be attending the live seminar. Single Registrant - $289.00. Three or more registrants from the same company registering at the same time - $269.00 each.
( ) I am not attending. Please send me the self-study package:
Downloadable MP3 Audio/PDF Manual for $269.00
CD/Manual Package for $289.00
(S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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Signature:
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Additional Learning

Webinar Series
Foundations in Cold Regions
- Introduction to Foundations in Cold Regions
  Thurs., Feb. 20, 2020, 11:00 AM - 12:30 PM CST
- Shallow Foundation Design in Cold Regions
  Thurs., Feb. 20, 2020, 1:00 - 2:30 PM CST
- Deep Foundation Design in Cold Regions
  Fri., Feb. 21, 2020, 11:00 AM - 12:30 PM CST
- Foundation Construction in Cold Regions
  Fri., Feb. 21, 2020, 1:00 - 2:00 PM CST

Soil Mechanics and Slope Stability
- Soil Investigation and Classification
  Tues., Feb. 25, 2020, 11:00 AM - 1:00 PM CST
- Reviewing Hydraulic and Mechanical Properties of Soils
  Tues., Feb. 25, 2020, 1:30 - 3:00 PM CST
- Determining and Increasing Bearing Capacity
  Wed., Feb. 26, 2020, 11:00 AM - 1:00 PM CST
- Determining and Increasing Slope Stability
  Wed., Feb. 26, 2020, 1:30 - 3:00 PM CST

Designing for Climate Resilience
- Current and Anticipated Climate Effects on Structures and Communities
  Thurs., Feb. 27, 2020, 11:00 AM - 12:30 PM CST
- Assessing the Impact of Sea Level Rise, Changing Temperature and Changing Weather Patterns
  Thurs., Feb. 27, 2020, 1:00 - 3:00 PM CST
- Studying the Impact of Extreme Weather
  Fri., Feb. 28, 2020, 11:00 AM - 12:30 PM CST
- Adapting Sites, Outdoor Spaces, New Construction and Existing Buildings to Withstand Extreme Weather Events
  Fri., Feb. 28, 2020, 1:00 - 3:00 PM CST

Continuing Education Credit Information
This seminar is open to the public and offers 6.0 continuing professional education hours/CEUs to professional engineers licensed in all states. Educators and courses are not subject to preapproval in Utah.
HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24G00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

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