Agenda

Presented by Mark D. Jones, P.E.

Overview of Unmanned Aircraft Technologies

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

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

Software set-up

Preflight planning

Flight operations and considerations

Post-processing

Structural Inspections Using UAS

Civil Engineering Applications for UAS

Site inspection and site work Construction progress monitoring 3D modeling

FAA Commercial UAS Regulations

Commercial/recreational UAS
Remote pilot requirements
UAS requirements
Airspace requirements
Operating rules

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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.

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Unmanned Aircraft Applications for EngineersFairfax, VA - Friday, April 12, 2019



Learning Objectives

You'll be able to:

Identify different types of unmanned aircraft systems.

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 UAS applications for structural inspections, site work and construction progress monitoring.

Understand FAA commercial UAS regulations.

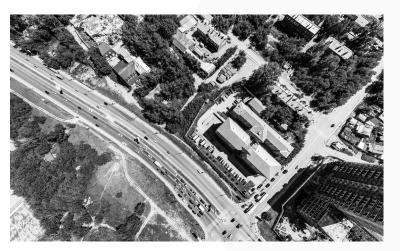






Unmanned Aircraft Applications for Engineers

Fairfax, VA - Friday, April 12, 2019



Receive an overview of unmanned aircraft system (UAS) technologies

Explore commercial UAS applications

Learn about mapping using UAS

Examine the use of UAS in inspections and construction progress monitoring

Understand FAA commercial UAS regulations

Continuing Education Credits

Professional Engineers

6.5 Continuing Ed. Hours



Faculty

Mark D. Jones, P.E. Principal, Hartech Engineering & Consulting, LLC

Mr. Jones, PE is president of Hartech Engineering which was founded in 2007 as a multi-discipline civil engineering consulting firm providing infrastructure, development and municipal design services for the public and private sectors. Bringing over 30 years of engineering expertise along with specific state-of-the-art, computer-aided technology to achieve efficient, cost saving design solutions, he also provides hydrology and hydraulic studies and reports along with general civil engineering support for prime consultants to PennDOT or local municipality projects. Mr. Jones is a licensed pilot and studied Military Civil Engineering while serving in the USAF and continues his masters education locally through Penn State. He is also a registered professional engineer in the states of Pennsylvania, Maryland, Arizona and Georgia.

Seminar Information

Hilton Garden Inn Fairfax

3950 Fair Ridge Drive Fairfax, VA 22033 (703) 385-7774 Registration 8:00 - 8:30 am Morning Session

8:30 am - 12:15 pm

Lunch (On your own) 12:15 - 1:15 pm Afternoon Session 1:15 - 4:30 pm

Tuition

\$289 for individual registration

\$269 for three or more simultaneous registrations.

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Additional Learning

Webinar Series

Foundations in Cold Regions

- Introduction to Cold Regions Foundations Thurs., Feb. 21, 2019, 11:00 AM -12:30 PM CST
- Shallow Foundation Design in Cold Regions Thurs., Feb. 21, 2019, 1:00 -2:30 PM CST
- Deep Foundation Design in Cold Regions Fri., Feb. 22, 2019, 11:00 AM -12:30 PM CST
- Foundation Construction in Cold Regions Fri., Feb. 22, 2019, 1:00 -2:00 PM CST

Soil Mechanics and Retaining Wall Design

- Soil Investigation and Classification Wed., Feb. 27, 2019, 11:00 AM -1:00 PM CST
- Retaining Walls: What They Do and How They Do It
- Wed., Feb. 27, 2019, 1:30 2:30 PM CST
 Geosynthetics and Retaining Walls
- Thurs., Feb. 28, 2019, 11:00 AM -1:30 PM CST
 Retaining Wall Failures and Fixes/Site
 Layout and Prevention

Thurs., Feb. 28, 2019, 2:00 -4:00 PM CS

National Electrical Code

- National Electrical Code, Part I Wed., March 6, 2019, 11:00 AM - 3:30 PM CST
- National Electrical Code, Part II
 Thurs., March 7, 2019, 11:00 AM 3:30 PM CST
- National Electrical Code, Part III
 Fri., March 8, 2019, 11:00 AM 3:30 PM CST

Commercial Solar Peaker Batteries

 Commercial Solar Peaker Batteries, Part I

Wed., March 13, 2019, 11:00 AM - 3:15 PM CDT

• Commercial Solar Peaker Batteries, Part II Thurs., March 14, 2019, 11:00 AM -2:15 PM CDT

Handling Ethical Issues in Professional Engineering Practice

Fri., March 15, 2019, 11:00 AM - 12:00 PM CDT

For more information and other online learning opportunities visit: www.halfmoonseminars.org/webinars/

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 continuing education hours to engineers in all states. Educators and courses are not subject to preapproval in Virginia.

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

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Registration

Unmanned Aircraft Applications for Engineers

Fairfax, VA - Friday, April 12, 2019

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