

Credit Information

Pennsylvania Stormwater Hydrology and Hydraulics 2023

This seminar and webcast are open to the public and are designed to qualify for 6.0 PDHs for professional engineers and 6.0 HSW continuing education hours for licensed architects in Pennsylvania. This course is designed to qualify for 6.0 HSW continuing education hours for landscape architects in Pennsylvania.

The American Institute of Architects Continuing Education System has approved HalfMoon Education as a sponsor of continuing education (Sponsor No. J885). This course has been submitted for AIA CES approval and is currently pending. Only full participation is reportable to the AIA CES.

The Landscape Architecture Continuing Education System has approved this course for 6.0 HSW PDHs. Only full participation is reportable to the LA CES.

This webinar has been approved by the Association of State Floodplain Managers for 6.0 CECs for floodplain managers.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:

6.0 HSW LUs (AIA) | 6.0 HSW PDHs (LA CES) | 6.0 ASFPM CECs

Aerial Mapping with UAS and Drones

This seminar and webcast are open to the public and are designed to qualify for 6.5 PDHs for professional engineers and land surveyors in Pennsylvania. This course is designed to qualify for 6.0 HSW continuing education hours for landscape architects in Pennsylvania; approval by the Landscape Architecture Continuing Education System is currently pending.

The Landscape Architecture Continuing Education System has approved HalfMoon Education as a provider of continuing education. This course has been submitted for LA CES approval and is currently pending. Only full participation is reportable to the LA CES.

Visit this course listing at www.halfmoonseminars.org for updates on pending credits. Completion certificates will be awarded to participants who complete this event and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

On-Demand Credits

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6.0 HSW PDHs (LA CES)

Live, In-Person Seminars and Live Webcasts

- Pennsylvania Stormwater Hydrology and Hydraulics 2023
- Aerial Mapping with UAS and Drones

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Live, Interactive Webinars

Pennsylvania Stormwater Hydrology and Hydraulics 2023

- Wayne, PA or Online | Tuesday, May 23, 2023

Aerial Mapping with UAS and Drones

- Harrisburg, PA or Online | Tuesday, June 6, 2023

To register, view detailed presenter biographies,
and see other learning opportunities, please visit:

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Live, In-Person Seminars and Live Webcasts

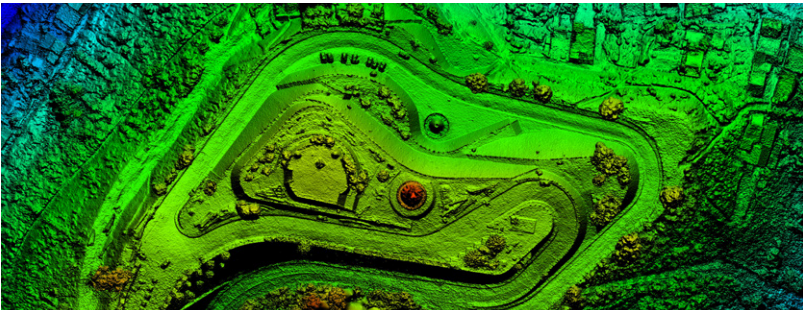


Pennsylvania Stormwater Hydrology and Hydraulics 2023

Wayne, PA or Online | Tuesday, May 23, 2023

8:30 am - 3:50 pm EDT

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CE Hours
AIA: 6.0 LU | HSW Landscape Architects: 6.0 HSW CE Hours
LA CES: 6.0 HSW PDHs Floodplain Managers: 6.0 ASFPM CECs



Aerial Mapping with UAS and Drones

Harrisburg, PA or Online | Tuesday, June 6, 2023

8:30 am - 4:20 pm EDT

Credits: Professional Engineers: 6.5 PDHs Land Surveyors: 6.5 PDHs
Landscape Architects: Pending LA CES: Pending

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www.halfmoonseminars.org

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Pennsylvania Stormwater Hydrology and Hydraulics 2023

Wayne, PA or Online | Tuesday, May 23, 2023

8:30 am - 3:50 pm EDT (incl. a 60-min break)

Tuition: \$319 per registrant, \$289 per registrant for two or more

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CE Hours
AIA: 6.0 LU| HSW Landscape Architects: 6.0 HSW CE Hours
LA CES: Pending Floodplain Managers: 6.0 ASFPM CECs

Courtyard Philadelphia Valley Forge/King of Prussia

1100 Drummers Lane
Wayne, PA 19087
(610) 687-6700

Webinar Information:

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in an email sent close to the date of the webinar.

For system requirements, please visit the FAQ section
of our website, or visit www.gotowebinar.com.

Agenda

Stormwater Management Overview

- Background and development of national and state regulations and permit requirements
- Review and permitting process
- Implementing, monitoring and assessing post construction stormwater management (PCSM) plans

Permit Requirements

- Complying with Pennsylvania Department of Environmental Protection regulations
- Notice of Intent (NOI) requirements

Stormwater Management Hydrology

- | | |
|--|--|
| Hydrology, soil science and drainage | Classifying storm events |
| Selection of storm types and durations | Selection of model type and method |
| Hydrology for volume and rate control | Hydrologic modeling and software selection |

Stormwater Management Hydraulics

- Assessing stormwater BMP performance
- Non-structural stormwater BMPs
- Structural stormwater BMPs
- Hydraulic models and software selection
- Stormwater infrastructure modeling

Stormwater BMP Selection

- Non-structural SWM BMPs
 - Preservation of natural features and conservation design
 - Reducing impervious cover

Structural SWM BMPs

Sizing criteria

Riparian buffers and filter strips

Infiltration BMPs

- | | |
|-------------------------|-------------------------|
| • Rain gardens | • Green roofs |
| • Rain barrels/cisterns | • Proprietary practices |

Small Site Stormwater Hydrologic and Hydraulic (H&H) Demonstration

23 PASTWHYD 5 23 WAYN LH/23 PASTWHYD 5 23 WEBC LH

Aerial Mapping with UAS and Drones

Harrisburg, PA or Online | Tuesday, June 6, 2023

8:30 am - 4:20 pm EDT (incl. a 60-min break)

Tuition: \$319 per registrant, \$289 per registrant for two or more

Credits: Professional Engineers: 6.5 PDHs Land Surveyors: 6.5 PDHs
Landscape Architects: Pending LA CES: Pending

Courtyard by Marriott Harrisburg/Hershey

725 Eisenhower Blvd.
Harrisburg, PA 17111
(717) 558-8544

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Agenda

Aerial Mapping Program Overview

UAS-Drone Platforms

- | | |
|-----------------------------|--------------------------|
| Types of UAS/sUAS platforms | Uses of drone technology |
| Cameras | UAS costs |

UAS Mapping Principles

- | | |
|----------------------------|---------------------------------|
| General aerial photography | Ortho-photos |
| Photogrammetry | 3D Models |
| Terrain modeling | LiDAR point clouds and scanning |
| GIS dataset acquisition | |

History and Development of the UAS Platforms

UAS Photogrammetry-Principles and Procedures

- | | |
|-----------------------|---------------------------------|
| Photogrammetry basics | GPS and coordinate systems |
| Data georeferencing | Survey control |
| Data acquisition | Post processing and adjustments |

Post Processing - Software Applications

- Basic data requirements
- Computer hardware
- Commercial software applications
 - Pix4D Drone
 - Deploy
 - AutoDesk
 - Others

Demonstration of Small Photogrammetry Project

- Live demonstration of a small project using Pix4D

FAA Commercial UAS Regulations

- | | |
|----------------------------|-------------------------------------|
| Commercial use activities | FAA Part 107 licensing requirements |
| Flight regulations for UAS | Airspace restrictions |

FAA Knowledge Test - General Overview

- Primer on the FAA Part 107 knowledge test
- Knowledge test areas of study Do I need to be a pilot?
- General do's and don'ts of UAS operations
- Commercial operator liability considerations

23 PAARLUAS 6 6 HRBG LH/23 PAARLUAS 6 6 WEBC LH

Faculty

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

Mr. Jones, P.E. 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. Additionally, he is also a registered professional engineer in the states of Pennsylvania, Maryland, Arizona and Georgia.

Additional Webinars

Construction Contract Workshop

- Monday, May 8, 2023 | 11:00 am - 2:45 pm CDT
- Tuesday, May 9, 2023 | 11:00 am - 2:45 pm CDT

Drones in Construction

- Monday, May 8, 2023 | 9:30 am - 4:50 pm CDT

Engineering Ethics and Consequences

- Monday, May 8, 2023 | 1:00 - 2:00 pm CDT

Flood-Resistant Design and Construction

- Wednesday, May 10, 2023 | 9:00 am - 4:30 pm CDT

International Building Code 2021

- Wednesday, May 10, 2023 | 8:30 am - 4:30 pm CDT

Introduction to HEC-HMS Modeling

- Thursday, May 11, 2023 | 9:00 am - 4:30 pm CDT

Urban Stormwater System Design and Construction

- Monday, May 15, 2023 | 8:30 am - 4:30 pm CDT

Sand Transport Engineering in Coastal Areas

- Wednesday, May 17, 2023 | 10:00 am - 12:00 pm CDT

Saltwater Intrusion into Freshwater Resources

- Wednesday, May 17, 2023 | 1:00 - 4:00 pm CDT

International Plumbing Code 2021

- Thursday, May 18, 2023 | 8:00 am - 5:00 pm CDT

How to Use Permeable Pavements

- Thursday, May 18, 2023 | 10:00 am - 1:00 pm CDT

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and other online learning opportunities visit:
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