

Agenda

Presented by Mark D. Jones, P.E.

HEC-RAS Program Overview

Advanced HEC-RAS Capabilities

- 1D modeling – advanced topics
- GIS platform in HEC-RAS
- Mapping capabilities
- Unsteady flow capabilities
- Introduction to 2D modeling

1D Steady State Operations

- 1D model calibration
- Floodway determination
- Demonstration

GIS Mapping Capabilities

- GIS setup and basics
- Model data in GIS and RAS mapper
- Results mapping and export
- Demonstration

Steady and Unsteady Flow Models

- Unsteady flow basics
- Flow and boundary conditions setup
- Demonstration

Introduction to 2D Modeling

- Basic data requirements
- Model setup
- Analysis requirements
- Demonstration

Summary and Q & A

Advanced HEC-RAS Modeling
Coraopolis, PA - Friday, November 8, 2019

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



Learning Objectives

You'll be able to:

Review advanced topics in one dimensional HEC-RAS modeling.

Explore GIS mapping capabilities, and watch a demonstration.

Discuss key issues in steady and unsteady flow water surface profiling.

Get an introduction to two dimensional modeling. and watch a demonstration.



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Advanced HEC-RAS Modeling

Coraopolis, PA - Friday, November 8, 2019



Discuss the advanced capacities of the HEC-RAS program

Explore 1D model calibration and floodway determination

Learn about steady and unsteady flow models

Understand the GIS mapping capabilities of HEC-RAS

Watch a demonstration of 2D modeling

Continuing Education Credits

Professional Engineers

6.5 PDHs

Professional Geologists

6.5 PDHs

Floodplain Managers

6.5 ASFPM CECs

Landscape Architects

6.5 Pennsylvania Clock Hours

6.5 LA/CES HSW PDHs



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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.

Seminar Information

Courtyard by Marriott Pittsburgh Airport 450 Cherrington Pkwy Coraopolis, PA 15108 (412) 264-5000	Registration 8:00 - 8:30 am Morning Session 8:30 am - 12:00 pm	Lunch (On your own) 12:00 - 1:00 pm Afternoon Session 1:00 - 4:30 pm
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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. For availability and job description, please visit www.halfmoonseminars.org.

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 tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar. You may also send another person to take your place.

Additional Learning

Webinar Series

Commercial Solar Peaker Batteries

- **Commercial Solar Peaker Batteries, Part I**
Wed., Sept. 4, 2019, 11:00 AM - 2:15 PM CDT
- **Commercial Solar Peaker Batteries, Part II**
Thurs., Sept. 5, 2019, 11:00 AM - 2:15 PM CDT

Commercial Provisions of the International Energy Conservation Code

- **Commercial Provisions of the International Energy Conservation Code**
Wed., Sept. 11, 2019, 11:00 AM - 1:00 PM CDT
- **IECC Provisions for Commercial Building Envelopes**
Wed., Sept. 11, 2019, 1:30 - 4:00 PM CDT
- **IECC Provisions for Commercial Building HVAC Systems**
Thurs., Sept. 12, 2019, 11:00 AM - 12:00 PM CDT
- **IECC Provisions for Commercial Building Lighting**
Thurs., Sept. 12, 2019, 12:30 - 2:00 PM CDT

International Building Code

- **Building Code, Building Classification and Special Requirements**
Thurs., Sept. 12, 2019, 11:00 AM - 12:30 PM CDT
- **Mixed Use Buildings, Construction Types and Locations**
Thurs., Sept. 12, 2019, 1:00 - 2:30 PM CDT
- **Allowable Heights/Areas and Means of Egress**
Fri., Sept. 13, 2019, 11:00 AM - 12:30 PM CDT
- **Fire Rated Construction and Fire Protection Systems**
Fri., Sept. 13, 2019, 1:00 - 2:30 PM CDT

Tree Preservation

- **Keys for Success in Tree Preservation**
Tues., Sept. 17, 2019, 11:00 AM - 1:00 PM CDT
- **Tree Root Morphology and Patterns**
Tues., Sept. 17, 2019, 1:30 - 3:30 PM CDT
- **Trees as Design Elements and Construction Strategies**
Wed., Sept. 18, 2019, 11:00 AM - 1:00 PM CDT
- **Tree Protection and Post Construction**
Wed., Sept. 18, 2019, 1:30 - 3:30 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

Continuing Education Credit Information

This seminar is open to the public and provides 6.5 PDHs to professional engineers and geologists in most states, including Pennsylvania. The Pennsylvania State Board of Professional Engineers, Land Surveyors, and Geologists does not pre-approve continuing education actives.

HalfMoon Education is an approved continuing education sponsor for professional engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota.

Providers of continuing education for New York professional engineers are considered approved, if the provider is approved by the Landscape Architecture Continuing Education System. Courses are considered approved if they contribute to the professional practice of professional engineering in approved subject areas.

The Association of State Floodplain Managers has approved this event for 6.5 CECs.

This course offers 6.5 clock hours to Pennsylvania landscape architects. The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs.

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.

Registration

Advanced HEC-RAS Modeling

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How to Register	
Online: www.halfmoonseminars.org	
Phone: 715-835-5900	
Fax: 715-835-6066	Code:
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Complete the entire form. Attach duplicates if necessary.	
Registrant Information Name: _____ Company/Firm: _____ Address: _____ City:_____State: _____ Zip_____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me.	

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.

Checks: Make payable to HalfMoon Education Inc.

Credit Card: *Mastercard, Visa, American Express, or Discover*

Credit Card Number: _____

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