

Agenda

Presented by Mary L. Paist-Goldman, P.E.

Advanced HEC-RAS Modeling Day One

Wednesday, September 16, 2020 | 8:30 am - 12:30 pm CDT (including a 15-min. break)

Overview of HEC-RAS - Review of Hydraulic Principles

- Conservation of energy and momentum
- Energy losses and Manning's equation
- Backwater effects

When to Use These Applications

- Steady flow
- Unsteady flow
- 1D or 2D

Overview of 1D Unsteady Flow Modeling with HEC-RAS

- File management
- Data entry and editing

Building Your 1D Unsteady Flow Model

- Data required
- Locating cross sections
- Setting boundary conditions
- Calculating water profiles in HEC-RAS

Advanced HEC-RAS Modeling Day Two

Thursday, September 17, 2020 | 8:30 am - 12:00 pm CDT (including a 15-min. break)

Overview of 2D Unsteady Flow Model

- Data required
- Locating cross sections
- Setting boundary conditions
- Calculating water profiles in HEC-RAS

Building Your 2D Unsteady Flow Model

- Demonstration for standard stream flow
- Project file setup
- Setting geometry and boundary conditions
- Modeling tips

Model Output and Troubleshooting

Other Applications in HEC-RAS

- Sediment transport
- Water quality

Advanced HEC-RAS Modeling

Online - Wed., September 16 and Thurs., September 17, 2020

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Learning Objectives

You'll be able to:

Review hydraulic principles that impact stream flow.

Learn when to use HEC-RAS application to model steady and unsteady flow, and discuss modeling in 1D or 2D.

Build 1D unsteady flow models.

Collect data and set boundary conditions for 2D unsteady flow models.

Build a 2D unsteady flow model for standard stream flow.

Consider sediment transport and water quality issues.



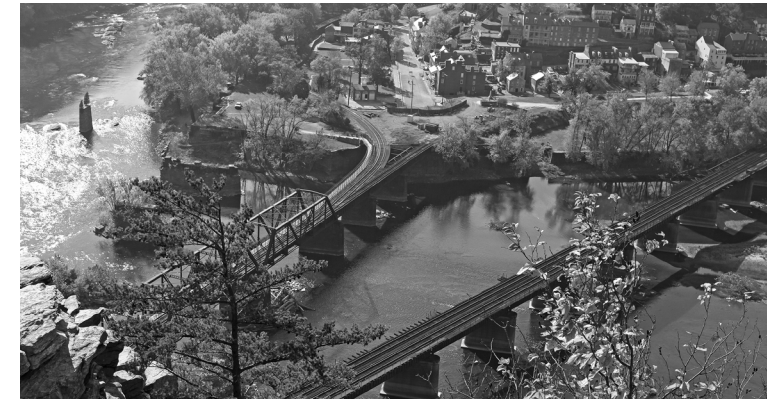
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HalfMoon Education Online Learning

Advanced HEC-RAS Modeling

Live, Interactive Webinar Series

Wed., September 16, 2020, and Thurs., September 17, 2020



Learn when to use HEC-RAS for steady and unsteady flow

Explore 1D and 2D modeling

Review critical hydraulic principles

See a demonstration of a 1D unsteady flow model

Watch a demonstration of a 2D unsteady flow model

Discuss sediment transport and water quality issues

Continuing Education Credits

Professional Engineers

6.5 PDHs

Floodplain Managers

6.5 ASFPM CECs

Geologists

6.5 PDHs/CE Hours

North Carolina Geologists

6.5 PDHs



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Faculty

Mary L. Paist-Goldman, P.E. *Principal and owner of Rippled Waters Engineering, LLC*

Ms. Paist-Goldman has more than 20 years of experience in water resource engineering with a particular focus in stream and wetland restoration and mitigation design. She is the principal and owner of Rippled Waters Engineering, LLC, based in New Jersey. Her firm specializes in water resources engineering services for a variety of projects. Prior to starting Rippled Waters in 2018, she served for many years as principal engineer and director of Engineering Services of a Mid-Atlantic regional natural resources firm. She is an experienced modeler and has worked extensively on design and analysis using a variety of hydrologic and hydraulic programs including HEC-HMS, HEC-RAS, and HydroCAD. Applications for her hydraulic modeling expertise include wetland restoration and mitigation; stream restoration; bridge repair and replacement; and dam repair, replacement and removal. Specifically related to riverine systems, Ms. Paist-Goldman has extensive expertise with stream restoration, large woody debris, natural channel design and bioengineering stabilization techniques. Ms. Paist-Goldman has designed restoration projects of all sizes ranging from a few hundred feet to several miles of stream. These projects are planned for use as mitigation banks or serve as mitigation for development onsite. Working closely with restoration ecologists and landscape architects, Ms. Paist-Goldman has designed a variety of stream and wetland habitats including creation, enhancement, restoration, and preservation with a focus on sustainability and regulatory compliance.

Webinar Information

Day One: Wednesday, September 16, 2020
8:30 am - 12:30 pm CDT (including a 15-min. break)

Day Two: Thursday, September 17, 2020
8:30 am - 12:00 pm CDT (including a 15-min. break)
(please log into the webinar 15 - 30 minutes before start time)

Tuition
\$299 for individual registration
\$199 for three or more registrants from the same company at the same time.
Included with your registration: *PDF seminar manual.*

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

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit www.gotowebinar.com.

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

Additional Learning

International Existing Building Code
- Wed., Sept. 9, 2020 | 11:00 am - 2:30 pm CDT
- Thurs., Sept. 10, 2020 | 11:00 am - 2:30 pm CDT

2018 International Residential Code: Structural Design
- Fri., Sept. 11, 2020 | 11:00 am - 3:30 pm CDT

Current Issues in Sustainable Site Design
- Mon., Sept. 14, 2020 | 11:00 am - 1:00 pm CDT
- Tues. Sept. 15, 2020 | 11:00 am - 1:00 pm CDT

Stormwater Basins and Underground Systems
- Mon., Sept. 14, 2020 | 12:00 pm – 4:00 pm CDT
- Tues. Sept. 15, 2020 | 12:00 pm – 3:30 pm CDT

Wastewater Collection and Treatment System Design
- Mon., Sept. 14, 2020 | 10:00 am - 1:30 pm CDT
- Tues. Sept. 15, 2020 | 10:00 am - 1:30 pm CDT

Small Commercial Solar Photovoltaic Energy Systems
- Tues., Sept. 15, 2020 | 8:30 am - 3:50 pm CDT

Erosion and Sediment Control
- Wed., Sept. 16, 2020 | 11:00 am - 2:00 pm CDT
- Thurs., Sept. 17, 2020, 11:00 am - 2:00 pm CDT

International Building Code
- Wed., Sept. 16, 2020 | 10:00 am - 2:00 pm CDT
- Thurs., Sept. 17, 2020 | 10:00 am - 2:00 pm CDT

Complying with Fire Protection and Building Codes
- Mon., Sept. 21, 2020 | 8:00 - 11:35 am CDT
- Tues., Sept. 22, 2020 | 8:00 am - 12:05 pm CDT

Designing for Accessibility under ADA Standards and IBC
- Tues., Sept. 22, 2020 | 8:30 am - 4:30 pm CDT

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

Continuing Education Credit Information

This webinar is open to the public and offers 6.5 PDHs to professional engineers licensed in all states.

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

This course offers 6.5 PDHs/continuing education hours to licensed/registered geologists. Due to a HalfMoon Education clerical error, it is approved for only 6.5 PDHs for North Carolina geologists. HalfMoon Education is appealing for the full 6.5 PDHs. HalfMoon Education has not applied for state geologist continuing education approval in states requiring such.

Completion certificates will be awarded to participants who complete this event, respond to prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Can’t Attend? Order the Webinar as a Self-Study Package!
Recordings of this webinar are available for purchase. 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.

Registration

Advanced HEC-RAS Modeling
Online - Wednesday, September 16, 2020 and Thursday, September 17, 2020

How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066	Code:
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
Complete the entire form. Attach duplicates if necessary.	
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 webinar.** Single Registrant - **\$299.00**. Three or more registrants from the same company registering at the same time - **\$199.00** each.

() **I am not attending.** Please send me the webinar recording:

☐ Streamable MP4 Video/PDF Manual for **\$279.00**.

☐ USB Video/PDF Manual for **\$279.00**.

Checks: Make payable to HalfMoon Education Inc.

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

Credit Card Number: _____

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