

HalfMoon Education Live Continuing Education Webinars

Advanced HEC-RAS Modeling

Online - Wednesday, December 21, 2022 | 8:30 am - 4:20 pm CST

Credits:

Professional Engineers: 7.0 PDHs

Geologists: 7.0 CE Hours

Floodplain Managers: 7.0 ASFPM CECs

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Webinar Agenda | Wednesday, December 21, 2022 | 8:30 am - 4:20 pm CST (including a 30-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

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

Presented by

Mary Paist-Goldman *Principal and Owner of Rippled Waters Engineering, LLC based in New Jersey*

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.

Tuition

\$319 for individual registration
\$289 for two or more registrants from the same company at the same time.

Included with your registration: PDF seminar manual.

Credit Information

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers in all states and may qualify for 7.0 CE hours for licensed geologists.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers via its registration with the Practicing Institute of Engineering (Regulations of the Commissioner §68.14(i)(2)). Other states do not preapprove continuing education providers or courses.

This webinar has been evaluated and approved by the Practicing Institute of Engineering for 7.0 PDHs for New York engineers and geologists. HalfMoon Education has not applied for any other state geologist continuing education approval in states requiring such.

This webinar has been approved by the Association of State Floodplain Managers for 7.0 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).

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Recordings of this webinar are available for purchase. See details online 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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