

Agenda

Presented by Chad Ballard, PE, CFM ENV SP

Advanced HEC-RAS Modeling Day One

Wednesday, April 28, 2021 | 10:00 am - 1:15 pm CDT (including a 15-min. break)

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

Advanced HEC-RAS Modeling Day Two

Thursday, April 29, 2021 | 10:00 am - 1:15 pm CDT (including a 15-min. break)

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

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.

Advanced HEC-RAS Modeling

Online - Wednesday, April 28 and Thursday, April 29, 2021

NON-PROFIT
U.S. POSTAGE PAID
EAU CLAIRE, WI
PERMIT NO. 2016

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



Learning Objectives

You'll be able to:

Learn advanced HEC-RAS capabilities

Explore GIS mapping capabilities

Examine 1D Steady State Operations

Distinguish between steady and unsteady models

Discuss 2D modeling



HalfMoon Education Online Learning

Advanced HEC-RAS Modeling

Live, Interactive Webinar Series

Wednesday, April 28 and Thursday, April 29, 2021



Understand advanced HEC-RAS capabilities

Learn rights and responsibilities in easements

Discuss 1D Steady State Operations

Understand both steady and unsteady models

Explain 2D modeling

Continuing Education Credits

Professional Engineers
6.0 PDHs

Floodplain Managers
6.0 ASFPM CECs

Geologists
6.0 PDHs/CE Hours



Faculty

Chad Ballard, PE, CFM ENV SP
Stormwater and Flood Team Leader at Plummer in Dallas, TX
Mr. Ballard is a licensed civil engineer holding a bachelor’s and master’s degrees in Civil and Environmental Engineering from Brigham Young University. He was first introduced to numerical modeling methods as an undergrad and continued with his graduate work in 2D surface water and sediment transport modeling.

Since then Mr. Ballard has obtained experience using a variety of hydrologic and hydrodynamic modeling solvers and platforms on a variety of different engineering applications (HEC-HMS, HEC-RAS, XP-SWMM, TUFLOW, SRH-2D, SMS). In addition to providing a broad range of engineering skills, he has helped hundreds of engineering firms apply numerical models to their projects all around the world. In the past Mr. Ballard has taught undergraduate and graduate level courses in hydraulics and hydrology, and he is currently teaching professional continuing education courses for the new 2D tools in the HEC-RAS software.

Mr. Ballard is active in professional organizations including the Texas Floodplain Managers Association (TFMA) and ASCE Texas Section where he serves as the current Honors Committee chairman. He is also a committee member of the EWRI National Computational Hydraulics Technical Committee.

Mr. Ballard is the Stormwater and Flood Team leader for Plummer and started the High Water Mark, a website for resources, information and current events specific to water resource engineers. He currently lives in the Dallas area with his wife and five daughters.

Webinar Information

Day One: Wednesday, April 28, 2021
10:00 am - 1:15 pm CDT (including a 15-min. break)

Day Two: Thursday, April 29, 2021
10:00 am - 1:15 pm CDT (including a 15-min. break)
(please log into the webinar 15 - 30 minutes before start time)

Tuition
\$289 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

Engineered Lumber Design and Construction
- Wed, Mar 17, 2021 | 8:30 am - 5:00 pm CDT

Bioretention System Design
- Fri, Mar 19, 2021 | 10:00 am - 12:00 pm CDT

Drones in Construction
- Mon, Mar 22, 2021 | 10:00 am - 4:50 pm CDT

Preventing and Addressing Construction Defects and Failures
- Tues, Mar 23, 2021 | 11:00 am - 2:15 pm CDT
- Wed, Mar 24, 2021 | 11:00 am - 3:15 pm CDT

Ethical Issues in Land Access and Development
- Wed, Mar 24, 2021 | 10:00 - 11:00 am CDT

Stormwater Best Management Practices
- Thurs, Mar 25, 2021 | 8:30 am - 5:00 pm CDT

Slope Stabilization and Landslide Prevention
- Fri, Mar 26, 2021 | 8:30 am - 3:30 pm CDT

Continuing Education Credit Information
This webinar is open to the public and offers 6.0 PDHs to professional engineers licensed in most states.

The Association of State Floodplain Managers has approved this course for 6.0 CECs.

This course offers 6.0 PDHs/continuing education hours to most licensed/registered geologists. 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.

Threats to Trees
- Fri, Mar 26, 2021 | 9:00 am - 4:30 pm CDT

Handling Ethical Issues in Construction Contracting
- Fri, Mar 26, 2021 | 10:00 - 11:00 am CDT

Complying with Fair Housing Act Accessibility Requirements
- Tues, Mar 30, 2021 | 8:30 am - 4:45 pm CDT

Fire-Resistant Landscapes and Construction
- Tues, Mar 30, 2021 | 10:00 am - 5:00 pm CDT

Special Inspections under the International Building Code Chapter 17
- Tues, Mar 30, 2021 | 9:00 am - 4:00 pm CDT

Prairie Restoration
- Wed, Mar 31, 2021 | 9:30 am - 4:30 pm CDT

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

Registration

Advanced HEC-RAS Modeling
Live, Interactive Webinar - Wednesday, April 28 and Thursday, April 29, 2021

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 - \$289.00 . 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: <input type="checkbox"/> Streamable MP4 Video/PDF Manual for \$299.00 . <input type="checkbox"/> USB Video/PDF Manual for \$299.00 .		
Checks: Make payable to HalfMoon Education Inc. Credit Card: <i>Mastercard, Visa, American Express, or Discover</i> Credit Card Number: _____ Expiration Date: _____ CVV2 Code: _____ Cardholder Name: _____ Billing Address: _____ City: _____ State: _____ Zip: _____ Signature: _____ Email: _____		