Agenda

Chad Ballard, PE, CFM

Session 1 – Intro into HEC-RAS
Hydraulic principles
Applications of HEC-RAS
1d vs 2d vs 3d

Session 2 – RAS Mapper
Georeferencing and projections
Mapper tools and workflow
Terrain and land cover setup
Session 2 (workshop)

Session 3 – 2D Modeling
2D modeling theory
Geometry setup
Boundary conditions
Session 3 (workshop)

Session 4 – Advanced 2D Modeling
2D modeling theory
Model troubleshooting
Rain on grid
Session 4 (workshop)

Session 5 – 2D Hydraulic Connections
Hydraulics structures
Internal boundary conditions
Session 5 (workshop)

Session 6 – 1D/2D Modeling with HEC-RAS
Lateral 1D/2D connection
Inline 1D/2D connections
Session 6 (workshop)

You are encouraged to bring a laptop with you to the seminar. The instructor will demonstrate the software on his computer, and attendees will be able to try working along on their computers. You will receive an email two weeks before the seminar that will contain more information on the hands-on portion of the program.

Learning Objectives

You’ll be able to:

Explore hydraulic principles.
Learn about applications for HEC-RAS software.
Examine RAS mapper tools and terrain and land cover setup.
Discuss 2D modeling theory, geometry setup and model troubleshooting.
Study hydraulics structures and internal boundary conditions.
Explore 1D and 2D modeling with HEC-RAS, and have the option of participating in hands-on workshop sessions.

HEC-RAS 2D Modeling
Corpus Christi, TX - Wednesday, May 6, 2020

Learn about applications of HEC-RAS
Explore hydraulic principles
Examine RAS mapper tools and terrain and land cover setup
Study 2D modeling theory, geometry setup and model troubleshooting

Continuing Education Credits

Professional Engineers
7.0 PDHs
Floodplain Managers
7.0 ASFPM CECs
Professional Geoscientists
7.0 CE Hours
Hydrologists
7.0 PDHs
Faculty

Chad Ballard, PE, CFM Stormwater and Flood Team Leader at Plummer in Dallas, TX

Mr. Ballard is a licensed civil engineer holding a bachelor’s and master’s degree 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, SHIB-2D, SMS). In addition to 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 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 Technical Committee.

Here's what past attendees had to say about the program and about presenter Chad Ballard:

“Very informative session.” — Civil Engineer
“Awesome presentation. Well prepared.” — Civil Engineer
“Clear, concise.” — Civil/Environmental Engineer

Seminar Information

Hyatt Place Corpus Christi
677 South Padre Island Drive
Corpus Christi, TX 78412
(361) 985-8888

Tuition
$299 for individual registration
$279 for three or more simultaneous registrations.

Included with your registration:
Complimentary continental breakfast and printed 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

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a $59 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
International Residential Code
• Development and Enforcement of International Residential Code
  Thurs., March 12, 2020, 11:00 AM - 12:00 PM CDT
  IRC Building Planning and Shell Construction, Part I
  Thurs., March 12, 2020, 1:00 - 2:30 PM CDT
  IRC Building Planning and Shell Construction, Part II
  Fri., March 13, 2020, 11:00 AM - 12:30 PM CDT
  IRC Energy Efficiency and Building Systems
  Fri., March 13, 2020, 1:00 - 3:00 PM CDT
Erosion and Sediment Control
• Erosion and Sediment Control Requirements and Practices
  Thurs., March 12, 2020, 12:30 - 2:00 PM CDT
• Selection of Erosion Control Practices and Best Practices
  Thurs., March 19, 2020, 12:30 - 2:00 PM CDT
• Small Channels, Control Measure Estimating and Pollution Prevention Plans
  Thurs., March 26, 2020, 12:30 - 2:00 PM CDT
• Stormwater Management Inspection, Maintenance and Case Studies
  Thurs., April 2, 2020, 12:30 - 2:00 PM CDT

Construction Cost Estimating
• Construction Cost Estimating
  Thurs., March 19, 2020, 11:00 AM - 12:30 PM CDT
• Assessing the Impact of Sea Level Rise, Changing Temperature and Changing Weather Patterns
  Thurs., March 19, 2020, 1:00 - 5:00 PM CDT
• Cost Estimate Organization and Examples
  Fri., March 20, 2020, 11:00 AM - 1:00 PM CDT
• Adapting Sites, Outdoor Spaces, New Construction and Existing Buildings to Withstand Extreme Weather Events
  Fri., March 20, 2020, 1:30 - 5:00 PM CDT

Introduction to HEC-HMS
• Introduction to Cost Estimating
  Thurs., March 26, 2020, 11:00 AM - 12:30 PM CDT
• HEC-HMS Application User Interface
  Thurs., March 26, 2020, 1:00 - 3:00 PM CDT
• Model Output and Troubleshooting
  Fri., March 27, 2020, 11:00 AM - 12:30 PM CDT
• Large Watershed Model and Other Applications
  Fri., March 27, 2020, 1:00 - 3:00 PM CDT

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

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Continuing Education Credit Information
This seminar is open to the public. It offers 7.0 PDHs to professional engineers in all states and 7.0 continuing education hour to Texas geoscientists. Educators and courses are not subject to preapproval.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP0000070), North Carolina, and North Dakota. HalfMoon Education is deemed a New York-approved continuing education provider for professional engineers.

The Association of State Floodplain Managers has approved this event for 7.0 CECs. ASFPM provider for professional engineers.

This course offers 7.0 PDHs to professional hydrologists. Courses are not subject to preapproval in Texas.

Completion of this course will provide 7.0 CEUs. ASFE approval qualifies this program for Texas Floodplain managers.

This course offers 7.0 PDHs to professional hydrologists. Courses are not subject to preapproval.

Attention 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

HEC-RAS 2D Modeling
Corpus Christi, TX, Wednesday, May 6, 2020

Online:
www.halfmoonseminars.org

How to Register
Phone: 715-835-5900
Fax: 715-835-6066
Email: info@halfmoonevents.com

Registration Information
Name: ____________________________
Address: __________________________
City: ____________________________
State: ____________________________
Zip: __________
Phone: ____________________________
Email: ____________________________
Occupation: ____________________________

Additional Registrants:
Name: ____________________________
Address: ____________________________
City: ____________________________
State: ____________________________
Zip: __________
Phone: ____________________________
Email: ____________________________

Mail:
HalfMoon Education Inc., PO Box 278, Altonna, WI 54720-0278

How to Register
Phone: 715-835-5900
Fax: 715-835-6066
Email: info@halfmoonevents.com

Registration Information
Name: ____________________________
Address: ____________________________
City: ____________________________
State: ____________________________
Zip: __________
Phone: ____________________________
Email: ____________________________
Occupation: ____________________________

Additional Registrants:
Name: ____________________________
Address: ____________________________
City: ____________________________
State: ____________________________
Zip: __________
Phone: ____________________________
Email: ____________________________

Tuition
( ) I will be attending the live seminar. Single Registrant - $299.00. Three or more registrants from the same company registering at the same time - $279.00 each.

Checks: Make payable to HalfMoon Education Inc.

Credit Card:
Cardholder Name: ____________________________
Expiration Date: ____________
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