

Agenda

Presented by Mark D. Jones, PE

HEC-HMS Program Overview

Basic Hydrologic Principles

Hydrologic cycle	Rainfall-runoff
Hydrologic modeling methods	Tabular hydrographs
Meteorological data	GIS data
Modeling methodology	

Applications of Hydrologic Models and HEC-HMS

Small scale studies	Stormwater management
Regional flood models	Update earlier modeling

History and Development of the USACOE HEC-HMS Application

HEC-RAS Application User Interface

Program file and project management	
Data entry and editing	GIS data usage
Results and reporting	Mapping capabilities

Small Scale Watershed Models

Basic data requirements	Model setup
Analysis requirements	Calibration
Results interpretation	

Demonstration of Small Watershed Model

Live demonstration of a small scale HMS model

Large Scale Watershed Model

Basic data requirements	Model setup
Analysis requirements	Calibration
Results interpretation	Modeling tips

Demonstration of Larger Watershed Model

Live demonstration of a larger scale HMS model
Use of small sub-watersheds
Reach routing

Introduction to HEC-HMS Modeling
Cherry Hill, NJ - Friday, October 12, 2018

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Learning Objectives

You'll be able to:

Understand the hydrologic cycle and explore hydrologic modeling methods.

Review applications for hydrologic models, including regional flood models and stormwater management.

Explore the HEC-RAS user interface, including data entry, reporting and mapping capabilities.

Discuss basic data requirements and model setup for small-scale and large-scale models.

Watch demonstrations of small-scale and larger-scale watershed models.



Introduction to HEC-HMS Modeling

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Understand basic hydrologic principles and modeling methods

Utilize applications of hydrologic models and HEC-HMS

Examine the HEC-RAS user interface, including program file and project management

Learn about small scale watershed models

Explore larger scale watershed models

Continuing Education Credits

Professional Engineers

6.5 CPC Hours

Geologists

6.5 Continuing Ed. Hours

Floodplain Managers

6.5 ASFPM CECs



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Faculty

Mark D. Jones, PE
Principal, Hartech Engineering & Consulting, LLC

Hartech Engineering 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. The firm is headed by Mark D. Jones, PE, who brings over 25 years of engineering expertise along with specific state of the art computer aided technology to achieve efficient, cost-saving design solutions. Mr. Jones provides client consultation, project scoping, and cost and service agreement documents, along with overall land development budgeting, project invoicing, staff assignment and supervision. 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 earned his BSCE degree in Military Civil Engineering from the United States Air Force Academy.

Here’s what past attendees had to say about the program and presenter Mark Jones:
“A good overview of the HEC-HMS software.” – *Civil Engineer*
“An excellent instructor.” – *Geologist*
“Well presented.” – *Consulting Engineer (Civil)*

Seminar Information

Holiday Inn Philadelphia-Cherry Hill 2175 West Marlton Pike Cherry Hill, NJ 08002 (856) 663-5300	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
\$279 for individual registration
\$259 for three or more simultaneous registrations.
Each registration includes a complementary 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 (CDT), 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 or the CD/manual package. You may also send another person to take your place.

Additional Learning

Webinar Series

Community Solar and Rooftop Solar

- **Community Solar**
Wed., Sept. 5, 2018, 11:00 AM - 2:15 PM CDT
- **Design Your Solar Roof**
Thurs., Sept. 6, 2018, 11:00 AM - 2:15 PM CDT

Seismic Design and Construction

- **Seismology and Building Codes**
Wed., Sept. 12, 2018, 11:00 AM - 3:30 PM CDT
- **Seismic Design of Building Structures**
Thurs., Sept. 13, 2018, 11:00 AM - 3:30 PM CDT

Small Wind Energy Systems

- **Small Wind Energy System Components**
Thurs., Sept. 20, 2018, 11:00 AM - 1:00 PM CDT
- **Small Wind Energy Siting and Sizing**
Fri., Sept. 21, 2018, 11:00 AM - 1:00 PM CDT

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

International Green Construction Code

- **Introduction to the International Green Construction Code (IgCC)**
Thurs., Sept. 20, 2018, 11:00 AM - 12:30 PM CDT
- **Chapters 4-5: Site Development and Material Use**
Thurs., Sept. 20, 2018, 1:00 - 2:30 PM CDT
- **Chapters 6-9: Energy, Water, Environmental Quality and Building Commissioning**
Fri., Sept. 21, 2018, 11:00 AM - 12:30 PM CDT
- **Chapters 10-11: Existing Buildings**
Fri., Sept. 21, 2018, 1:00 - 2:30 PM CDT

Slope Stabilization and Landslide Prevention

- **Analyzing the Stability of Slopes**
Tues., Sept. 25, 2018, 11:00 AM - 2:15 PM CDT
- **Slope Stabilization Methods**
Thurs., Sept. 27, 2018, 11:00 AM - 2:15 PM CDT

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 continuing education hours/PDHs to professional engineers in all states.

HalfMoon Education is an approved continuing education provider for New Jersey engineers (Approval No. 24GP00000700) and New York professional engineers (NYSED Sponsor No. 35).

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, North Carolina, and North Dakota.

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

This course offers a 6.5 continuing education opportunity to geologists.

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.

Can’t Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

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How to Register		Registrant Information	
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Fax: 715-835-6066		City:_____State: _____ Zip_____	
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Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Email: _____	
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Complete the entire form. Attach duplicates if necessary.		Name: _____	
		Occupation: _____	
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		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 - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

() **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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

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