

Agenda

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

Applications for Hydrologic Analysis

Watershed studies	Stormwater management
Regional flood models	Stream flow assessment

Hydrologic Principles

Hydrologic cycle	Watershed delineation methodology
Hydrographs	Rational method
SCS methods	

History and Development of US Army Corps HEC-HMS Software

HEC-HMS Application User Interface

Program file and project management
Data entry and editing

Building a Small-Scale Watershed Model

Data required	GIS data usage
Model setup	Analysis requirements

Model Output and Troubleshooting

Results and reporting	Mapping capabilities
Results interpretation	Calibration
Troubleshooting tips	

Demonstration of Small Watershed Model

Live demonstration of a small-scale HMS model

Building a Large-Scale Watershed Model

Data required	GIS data usage
Model setup	Analysis requirements
Modeling tips	

Demonstration of Larger Watershed Model

Live demonstration of a larger scale HMS model

Other Applications in HEC-HMS

Dam breach analysis	Irrigation design
Stormwater routings	Urban flood studies

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Introduction to HEC-HMS Modeling
Live, Interactive Webinar - Tuesday, January 12, 2021

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Learning Objectives

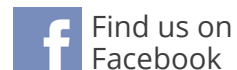
You'll be able to:

Use hydrologic analysis for watershed studies, regional flood models, stormwater management and stream flow assessment.

Understand hydrologic principles, and explore the functionality of the U.S. Army Corps' HEC-HMS software for modeling watersheds.

Watch the building of small-scale and large-scale watershed models in HEC-HMS, and participate in a demonstration of how they work.

Learn about other applications for HEC-HMS modeling, including dam breach analysis, stormwater routing and irrigation design.



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Introduction to HEC-HMS Modeling

Live, Interactive Webinar - Tuesday, January 12, 2021



Learn to use hydrologic analysis for watershed studies, stormwater management and stream flow assessment

Examine the U.S. Army Corps' HEC-HMS software functionality and user interface

Get tips on using HEC-HMS to build a small-scale watershed model

Learn about model output and troubleshooting

Explore large-scale watershed models, as well as stormwater routings and urban flood studies

Continuing Education Credits

Professional Engineers
7.0 PDHs

Floodplain Managers
7.0 ASFPM CECS



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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 hydrologic and hydraulic modeling. 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 at a Mid-Atlantic 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, HydroCAD and XP-SWMM. 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, natural channel design and stabilization. Throughout her career, she has designed dozens of projects with low impact development techniques and green infrastructure and with a focus on water quality – particularly in regard to TMDL compliance. She has designed rain gardens, cistern systems for water re-use in the form of landscape irrigation, bioretention islands, manufactured LID devices, infiltration basins and constructed wetlands. In addition, Ms. Paist-Goldman has developed projects with goals of zero discharge upon completion, groundwater recharge to address aquifer deficits, and stormwater retrofits to reduce water quality impacts on environmentally-sensitive streams, lakes and reservoirs. With regard to dams, she has worked on hazard classification analyses, dam breach analyses and dam removal design for anadromous migratory fish passage to name a few. For dam safety compliance, she has also prepared inundation mapping, emergency action plans, operation and maintenance manuals and dam inspection reports for low to high hazard dams.

Webinar Information

Log into Webinar 8:00 - 8:30 am CST	Break 12:15 - 1:15 pm CST
Morning Session 8:30 am - 12:15 pm CST	Afternoon Session 1:15 - 5:00 pm CST

Tuition
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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.

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Additional Learning

Mapping, Managing, and Regulating Floodplains
- Tues, Dec 15, 2020 | 11:00 am - 3:00 pm CST
- Wed, Dec 16, 2020 | 11:00 am - 2:30 pm CST

Reading, Interpreting and Writing Land Descriptions Workshop
- Thur, Dec 17, 2020 | 9:00 am - 4:00 pm CST

International Residential Code 2018
- Fri., Dec 18, 2020 | 8:30 am - 4:45 pm CST

Pavement Design
- Fri., Dec 18, 2020 | 9:00 am - 4:30 pm CST

Special Inspections under the International Building Code Chapter 17
- Mon, Dec 28, 2020 | 9:00 am - 4:30 pm CST

Deep Foundations and Excavations
- Wed, Dec 30, 2020 | 9:00 am - 4:30 pm CST

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Continuing Education Credit Information

This webinar offers 7.0 PDHs to professional engineers licensed in all states.

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The Association of State Floodplain Managers has approved this course for 7.0 CECs for floodplain managers.

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).

Registration

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