HalfMoon Education Live Continuing Education Webinars

Introduction to HEC-HMS Modeling in the Southwest US

Online - Tuesday, February 28, 2023 | 8:30 am - 3:20 pm CST

Credits:
Professional Engineers and Professional Geologists: 6.0 PDHs
Landscape Architects: 6.0 HSW CE Hours
LA CES: 6.0 HSW PDHs* Floodplain Managers: 6.0 ASFPM CECs**

*Pre-approval for on-demand format may be available upon request.
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LA CES

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Webinar Agenda | Tuesday, February 28, 2023 | 8:30 am - 3:20 pm CST (including a 30-min. break)

Introduction, History, and Development of US Army Corps HEC-HMS Software
- Brief history
- Applications of HEC-HMS
- Computational categories

Basic Hydrologic Concepts
- The Hydrologic Cycle and HEC-HMS
- User interface
- Input, output

Loss Rates in the Southwest Region of US
- Loss computation assumptions and methods
- Accounting for urbanization
- Accounting for sediment transport in the southwest
- Selecting a loss method and estimating parameters

Unit Hydrographs and Rainfall/Runoff Transformation
- Assumptions of the unit hydrograph
- Selecting a unit hydrograph method and estimating parameters

Precipitation in the Southwest
- Storm distributions in the Southwest
- Hypothetical vs. historical storms
- Sources of precipitation data

Hydrograph Routing
- Purpose, importance, and effects of hydrograph routing
- Routing methods
- Diversions and returns

Reservoir Routing In HEC-HMS
- Purpose, importance, and effects of reservoir routing
- Types of reservoirs and detention
- Reservoir routing input and output

Using Diversions
- Applications for flow diversions/design implications

Using HEC-HMS in Design
- Design example walkthrough

Presented by

Chris Naidu *Water Resources Civil Engineer, Senior Project Manager at RESPEC*

Mr. Naidu has more than 10 years of experience in drainage and flood control projects throughout New Mexico. His experience includes preparation of drainage management plans (DMP), hydrologic analysis, hydraulic analysis of flood control structures, sediment transport, and scour analysis for unlined arroyos and bridge structures. Using modeling/analysis software, Mr. Naidu produces high quality hydrologic and hydraulic models. He has a proven record of preparing easy-to-understand reports and corresponding maps and figures. He has prepared hydrographs and analyzed storm drains, weirs, pump stations, and detention/surge ponds. Additional skills include preparation of plan specifications, bidding and construction plans, cost estimates, and bidding services. He is familiar with Arc Geographic Information System (ArcGIS); Hydrologic Engineering Center (HEC) Hydrologic Modeling System, HEC Geospatial Hydrologic Modeling Extension (geoHMS), HEC River Analysis System, US Environmental Protection Agency Storm Water Management Model (EPA SWMM), StormCad, and CulvertMaster.

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 6.0 PDHs for professional engineers and professional geoscientists, and 6.0 HSW continuing education hours for landscape architects in Texas and most states that allow this learning method. Please refer to specific state rules to determine eligibility.

The Landscape Architecture Continuing Education System has approved this course for 6.0 HSW PDHs.* Only full participation is reportable to the LA CES.

This webinar has been approved by the Association of State Floodplain Managers for 6.0 CECs for floodplain managers.**

Professionals seeking continuing education credit in other states may be able to claim the hours earned at this webinar, in most cases. Refer to specific state rules to determine eligibility.

Completion certificates will be awarded to participants who complete this event and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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