

HalfMoon Education Live Continuing Education Webinars

Open Channel Hydraulics and Design

Online - Monday, October 24, 2022 | 8:30 am - 4:30 pm CDT

Credits:

Professional Engineers: 6.5 PDHs

Landscape Architects: 6.5 HSW CE Hours

LA CES: 6.5 HSW PDHs

Floodplain Managers: .65 ASFPM CECs

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Understanding Open Channel Flow and Pipe Flow

- Understanding pipe flow
- Understanding open channel hydraulics
 - Examining types of open channel flows
 - Looking at examples of open channels

Making Open Channel Calculations

- Channel shapes and varying flow
- Manning's equation and open channels
- Uniform flow calculations
- Critical flow calculations
- Varied flow

Evaluating Channel Shapes

- Evaluating the effect of channel shapes:
 - Trapezoidal, parabolic

Evaluating Channel Linings

- Smooth surfaces
- Uneven or rough surfaces
- Vegetated surfaces

Designing Open Channels

- Low slope
- Steep slope
- Transitions

Applications for Open Channels and Case Studies

- Stormwater management
- Drainage
- Stream flow

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 (geoHMSO), 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.*

Can't Attend? Order the Webinar as an On-Demand 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.

Credit Information

This webinar is open to the public and offers 6.5 PDHs to professional engineers licensed in most states.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and landscape architects via its registration with the Landscape Architecture Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §79-1.5(i)(2)). Other states do not preapprove continuing education providers or courses.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

The Association of State Floodplain Managers has approved these courses for 6.5 CECs for floodplain managers.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

Additional Learning

The Urban Forest: Challenges and Opportunities

- Wednesday, September 21, 2022 | 9:00 am - 5:00 pm CDT

Pruniversity: The Short Course on Pruning and Training Trees

- Friday, September 23, 2022 | 9:00 am - 4:30 pm CDT

For more information and other online learning opportunities visit:

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