

MODELING PIPE NETWORKS USING HEC-RAS 6.7

Workshop Description

This 3-hour HEC-RAS 6.7 2D Pipes Workshop focuses on getting engineering users up to speed on the current stormwater capabilities of HEC-RAS. Learn the theory, tools, and practical hands-on applications of HEC-RAS 2D stormwater pipe hydraulic modeling for watershed systems.

Learning Objectives

Upon completion of the workshop, participants will be able to:

- Comprehend the theory behind HEC-RAS 2D stormwater pipe hydraulic modeling
- Understand HEC-RAS stormwater pipe hydraulics compared to SWMM-5.

Prerequisites

Participants must have basic experience in HEC-RAS 2D and SWMM 5 methods. Undergraduate courses in hydrology and hydraulics are advantageous. A background in water resources, stormwater, drainage, hydrology and/or hydraulics is recommended.

Equipment Required

Participants should bring a laptop computer with the following specifications:

- Microsoft Windows 11 or 10 Operating System (**64-bit Required**)
- Minimum Physical Memory: 4 GB
- Minimum Free Disk Space: 16 GB
- Minimum Screen Resolution: 1600x900 pixels (15-17-inch monitor preferred)

This is a hands-on workshop in which exercises will be performed **requiring the use of specific software** including:

- HEC-RAS 6.7 Beta
- EPA-SWMM 5
- Microsoft Excel (Usually part of Microsoft Office)

***Please have all software properly installed on laptop in advance of workshop.**

In addition, it is **strongly recommended** that each participant also bring:

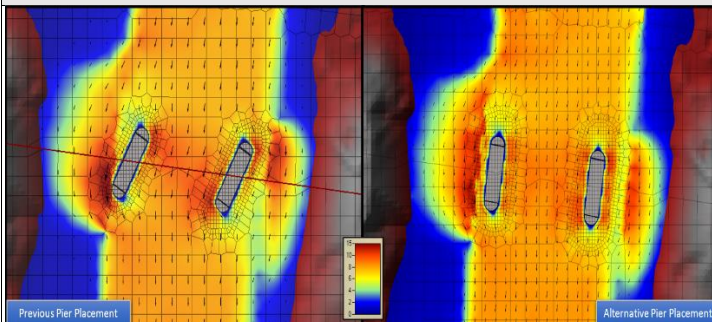
- Earbuds/Headphones
- A 2-Button Mouse With Wheel

Who Should Attend?

Design engineers, planners, technicians, regulatory official and urban drainage/stormwater management modeling personnel with intermediate level of experience.

***Conference Registration Encouraged (Limited to 15 spots)**

**2025 KAFM Annual Conference
September 2, 2025
9 am - 12 pm CST
Wichita, KS**



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About the Instructor

John has 20+ years of experience in the planning, analysis, design, program financing, and policy development of water resources related projects. He has performed countless watershed studies using a variety of hydrologic and hydraulic methods across the North American continent in varying terrestrial ecosystems. Since the FEMA Map Modernization era to today's Flood Risk era he has been a part of flood study development in FEMA Region 3, 4, 6, 7, and 8. In 2013, he assisted in flood mitigation studies in relief of the flood recovery of City of Calgary, Alberta. In addition to FEMA studies he has supported numerous water resources projects including dams & dam breach analyses, levee certification & rehabilitation, CIPs, urban development plans, master drainage plans, stormwater program business plans, stormwater policy development, stream restoration, and flood mitigation plans/design. He has developed hydrologic and hydraulics models for numerous water resource projects specializing in 1-D and 2-D methods, single-event & continuous simulations, NEXRAD calibration & historical event simulation/calibration, and numerical analyses of rural and urban systems. Finally, John has presented and lectured at many conferences, seminars, and training workshops across the country as well as a certified PC-SWMM Instructor.



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