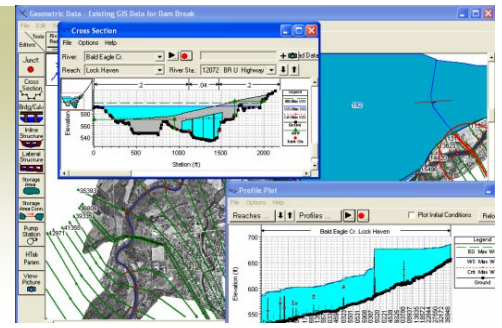


# HEC-RAS 3-Day Course

April 22-24, 2008, San Diego, California.

Metropolitan Wastewater Dept., 9192 Topaz Way, San Diego



## COURSE OUTLINE

**Tuesday, April 22**

**8:00 a.m.—5:00 p.m.**

Working with HEC-RAS: An Overview

Basic Input Data Requirements

Workshop 1: Developing a Hydraulic Model

Workshop 2: Adding Tributaries and Junctions

Theoretical Basis of HEC-RAS

**Wednesday, April 23**

**8:00 a.m.—5:00 p.m.**

Workshop 3: Creating Plans

Modeling Bridges with HEC-RAS

Workshop 4: Bridge Example

Modeling Culverts with HEC-RAS

Modeling Multiple Bridge and/or Culvert Openings

**Thursday, April 24**

**8:00 a.m.—5:00 p.m.**

Workshop 5: Modeling Multiple Openings

Optional Capabilities of HEC-RAS

Channel Geometry and Modeling Techniques

Floodway Determination

Workshop 6: Floodway Encroachment

Workshop 7: Output Analysis

Review of Workshop 7: Output Analysis

Summary and Review

## COURSE FEES

\$495—FMA Members

\$595-FMA Non-Members

\*Become a member for \$45 and save!

**Cancellation Policy:** \$50 fee until April 12, full course fee is applied after April 12.

## ACCOMODATIONS

Suggested hotels (no room block reserved):

Hampton Inn, 5434 Kearny Mesa Rd., San Diego,  
858-292-1482

Courtyard by Marriott, 8651 Spectrum Center Blvd.,  
San Diego, 858-573-0700

Holiday Inn, 9335 Kearny Mesa Road, San Diego,  
858-695-2300

**INSTRUCTORS: Dr. David Williams, PE (PBS&J)**, is a registered professional civil engineer in eight states, a Fellow of the American Society of Civil Engineers (ASCE), a Professional Hydrologist (P.H.) and a Certified Professional in Erosion and Sediment Control (CPESC). He has written the new HEC-6 Users ' Manual for the U.S. Corps of Engineers ' Hydrologic Engineering Center (HEC), performed HEC-6 and local scour analysis of pipeline crossings, and headed the Keene Ranch groundwater modeling study. He is the instructor of the American Society of Civil Engineers (ASCE) HEC-2, HEC-RAS, HEC-6 and Bridge Scour Analysis short courses which are presented throughout the U.S.

**Dr. Selena Forman, PE (PBS&J)**, is a senior project manager specializing in hydrology, hydraulics, scour analysis, and channel design. She has 15 years experience in the teaching, research, and professional realms of civil and environmental engineering. She has conducted numerous studies involving sediment transport modeling, scour analysis and design, stable channel design, and river restoration, including projects addressing the impacts of in-stream and floodplain mining activities on channel stability. Dr. Forman has been a professor at San Diego State University where she taught courses in hydraulics and river engineering. She has also taught courses throughout the U.S. in HEC-RAS and HEC-6, as well as the hydrology and hydraulic portions of PE exam review courses for the University of California at San Diego and private organizations.

**REGISTRATION DEADLINE: April 12, 5:00 p.m.** Register by e-mailing the information below to [admin@floodplain.org](mailto:admin@floodplain.org), or by fax to 760-440-0792, or post-mark by April 8 by mailing to FMA, .P.O. Box 712080, Santee, CA 92072-2080.

### Registrant Information

Name \_\_\_\_\_

Are you a CFM? (Certified  
Floodplain Manager) \_\_\_\_\_

Yes/No (Circle one)

(CFM's receive credit toward their certification from ASFPM)

Company \_\_\_\_\_

Street Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

TOTAL REG. FEE: \_\_\_\_\_

*For checks, make payable to "FMA"; Use Visa, MC, or Amex only*

Name on Card: \_\_\_\_\_

Credit Card Number: \_\_\_\_\_

Exp. Date: \_\_\_\_\_

Billing Zip Code: \_\_\_\_\_

CSC Code (3 or 4 digit number on back of card): \_\_\_\_\_ (required)