

Registration Form

BASIC WATERSHED MODELING USING HEC-HMS

- Three-Day Course in Fort Worth, TX – Oct. 29-31, 2012\$900
- Three-Day Course in Austin, TX – Oct. 31-Nov. 2, 2012\$900

BASIC FLOODPLAIN HYDRAULICS USING HEC-RAS

- Three-Day Course in Fort Worth, TX – Nov. 28-30, 2012\$900
- Three-Day Course in Austin, TX – Dec. 3-5, 2012.....\$900

Name: _____

Agency: _____

Address: _____

Phone: _____ Fax: _____

Email: _____

Method of Payment: (circle one)

VISA

MasterCard

Check

Credit Card #: _____

Expiration Date: _____

Cancellations received at least *2 weeks prior to the class date* will receive a full refund. Cancellations within 2 weeks of the class date will receive a refund of 50%.

Hotel Accommodations: For a list of hotels, contact Danielle Downey at 817-847-1422; ddowney@halff.com

Please return this form and payment to

Halff Associates – HEC Classes, 4000 Fossil Creek Blvd., Fort Worth, TX 76137;
Fax: 817-232-9784; Email: ddowney@halff.com



presents

GOVERNMENT EMPLOYEES CONTINUING EDUCATION SHORT COURSES FOR 2012

*in cooperation with Bonner Consulting and
David Ford Consulting Engineers*



BASIC WATERSHED MODELING USING HEC-HMS

Choose from two locations/dates:

Three-Day Course in Fort Worth, TX; Oct. 29-31, 2012

Three-Day Course in Austin, TX; Oct. 31-Nov. 2, 2012

BASIC FLOODPLAIN HYDRAULICS USING HEC-RAS

Choose from two locations/dates:

Three-Day Course in Fort Worth, TX; Nov. 28-30, 2012

Three-Day Course in Austin, TX; Dec. 3-5, 2012

Certificate and CEUs: Certificates of Completion will be awarded to class members who complete the class. The three-day courses qualify for 2.2 to 2.4 Continuing Education Units (CEUs) or 22 to 24 Professional Development Hours (PDHs).

FALL 2012 COURSES

A map to your seminar location will be provided with your registration confirmation. The three-day classes begin at 8 a.m. each day.

BASIC FLOODPLAIN HYDRAULICS USING HEC-RAS

Instructor: Vernon R. Bonner, PE

The objective of this course is to enable the participants to perform water surface profile computations using computer program HEC-RAS Version 4.1.0 in a sound and effective manner. Topics will include concepts of open channel flow, data requirements, basic input requirements, output analysis, application of bridge and culvert routines, importing GIS and HEC-2 data, and floodway determination. Participants will have an opportunity to prepare input and analyze output during the computer workshops.

BASIC WATERSHED MODELING USING HEC-HMS

Instructors: David Ford, PhD, PE; Andrew Ickert, PE, CFM

This workshop is designed to teach you how to use the US Army Corps of Engineers computer program HEC-HMS Version 3.5 for hydrologic engineering studies. It is a hands-on seminar, with workshops that permit you to develop experience in every topic covered, using real watershed data. Through these workshops and the accompanying lectures, you will learn how to select the appropriate HEC-HMS option for your studies, how to estimate model parameters, how to organize program input, and how to interpret HEC-HMS results. The seminar emphasizes application of HEC-HMS for analysis of ungaged, developing catchments. Popular options for such analysis, including the curve number model, are covered in detail. Other topics addressed in lectures and workshops include streamflow routing and complex watershed modeling, developing design rainfall, and modeling detention basins and other water control facilities.

INSTRUCTORS

Vernon R. Bonner, PE, is a Consulting Civil Engineer from Carlsbad, CA. He served 20 years as Chief, Training Division, Hydrologic Engineering Center; Davis, CA, and he has more than 38 years of water resource engineering experience in planning, reservoir system analysis, river hydraulics, floodplain management and program administration. In addition, Mr. Bonner managed and participated in the development of software (HEC-2, HEC-RAS, HEC-5, HEC-RES) and the conduct of technical studies for the National Floodplain Management Program, the National Hydropower Assessment and several basinwide reservoir systems. He has presented seminars and workshops in hydrology (HEC-1, HEC-HMS) and river hydraulics (HEC-2, HEC-RAS, UNET) and reservoir system analysis (HEC-5, HEC-ResSim) for the following:

- **Government:** HEC, USACE District and Division offices, TVA, FEMA, Ministry of Natural Resources Toronto and state water resource agencies in Alabama, Florida, Georgia, Illinois, Indiana, Kentucky, Michigan, Minnesota, North Dakota, North Carolina, South Carolina and Wisconsin.
- **Universities:** Arizona State at Tempe, California at Davis, Colorado at Denver, Colorado State at Fort Collins, Michigan State, Penn State, Rutgers, Texas at Austin and Wisconsin at Madison.
- **Organizations:** ASCE Conferences and Chicago Section, ASFPM Conferences, World Meteorological Organization and Panama Canal Authority.

David T. Ford, PhD, PE, D.WRE, is President of David Ford Consulting Engineers in Sacramento, CA, a firm specializing in hydrologic engineering, including floodplain management and flood damage-reduction planning, reservoir-system analysis, decision-support system development and technology transfer. The firm is recognized for its innovative work in flood warning, including real-time forecasting and inundation mapping, flood response planning, and flood warning decision support system development. The firm has clients worldwide, ranging from city and local government agencies to the USACE and Bureau of Reclamation. Dr. Ford holds a Ph.D. in Water Resource Systems Engineering from the University of Texas at Austin. He is a registered professional engineer in California, Texas, Nevada, Alabama, Kansas, North Carolina, Arizona and Oklahoma. His work history includes staff appointments at the Corps' Hydrologic Engineering Center, the University of California at Davis and California State University. He is a member of the American Society of Civil Engineers, Association of State Floodplain Managers and National Hydrologic Warning Council. His pro bono activities include membership on National Academy of Science committees.

Andrew Ickert, PE, CFM, has managed a wide range of hydrologic, hydraulic and reservoir operations projects since joining Halff in 2001. He has extensive hands-on experience using state-of-the-art GIS-based hydrologic and hydraulic models such as HEC-HMS, HEC-RAS and HEC-ResSim and has presented numerous technical papers, seminars and training classes on this technology. His clients have included the USACE, LCRA, BRA, TRWD, several TxDOT districts, NTTA, FEMA and many cities and counties. He received a B.S. in Civil Engineering from Texas Tech University and M.S. in Civil/Water Resource Systems from Cornell University. He is a registered professional engineer in Texas, a nationally Certified Floodplain Manager and a member of the ASCE and TFMA.

**Sign up today! Mail, fax or email the form
or call us at 817-847-1422!**