

HEC-RAS TRAINING WORKSHOP

Sponsored by



**Rose-Hulman
Student
Chapter**



**Metro
Indianapolis
Branch**

**Indiana Association for Floodplain and Stormwater Management (INAFSM)
Metropolitan Indianapolis Branch of American Society of Civil Engineers (ASCE MIB)
and
Cecil T. Lobo Student Chapter of the American Society of Civil Engineers at
Rose-Hulman Institute of Technology**

**December 7, 2011
January 11, 2012
February 23, 2012**

**Session No. 1 - INTRODUCTION TO HEC-RAS
Session No. 2 - BRIDGE HYDRAULICS
Session No. 3 - HYDRAULIC MODELING GUIDELINES and an
INTRODUCTION TO GEO-RAS**

INTRODUCTION

HEC-RAS (River Analysis System), developed by the Army Corps of Engineers, is software that allows you to perform one-dimensional steady and unsteady flow river hydraulics analysis. The Indiana Association for Floodplain and Stormwater Management (INAFSM), the American Society of Civil Engineers - Metropolitan Indianapolis Branch (ASCE-MIB), and the American Society of Civil Engineers Student Chapter at Rose-Hulman Institute of Technology have developed a series of three workshops tailored to introduce practicing engineers to HEC-RAS. The third Workshop Session will also include an introduction to GEO-RAS. HEC-RAS operates with modular input, generates flexible report (output) formats and has extensive graphic capabilities. Instructors for these workshops will include engineers from the Indiana Department of Natural Resources and faculty from Rose-Hulman Institute of Technology.

OBJECTIVE

The objective of these workshops is to introduce civil / environmental engineers to the theory and application of HEC-RAS. A series of three workshops shall be presented which address progressive levels of modeling capabilities. Each workshop shall provide participants with both theory and hands-on computer modeling training. Participants will work example problems during the course to become familiar with data manipulation and output interpretation. Time shall be set aside to discuss the example problems.

WHO SHOULD ATTEND

The workshops have been structured to provide training to engineers who would like to learn the intricacies of HEC-RAS to determine water surface profiles (generally flood levels). Registrants are expected to be engineering graduates and understand the basic theory of step-backwater hydraulics, however we will review this during Workshop No. 1.

LOCATION

Each workshop will be held in Terre Haute, Indiana on the Rose-Hulman Institute of Technology campus located on 5500 Wabash Ave, Room 227 Olin Hall. Maps are available upon request. Parking is available onsite. Breakfast and lunch will be provided as part of the workshops.

Note: All registrants are asked to bring calculators and engineering scales to each of the workshops

REGISTRATION

The registration fee of \$600.00 includes all three workshops. Instructor's course notes will be distributed at the beginning of each workshop. Registration will be limited to 32 participants. A total of 21 PDH credits for the combined three workshops will be confirmed by the workshop completion certificates. It is recommended that agencies and firms register only one employee for attendance. The registration form and fee must be received by November 16, 2011.

Registration after the due date will be permitted if space is available. A full refund of the registration fee will be made if cancellation is received in writing by November 30, 2011.

Questions may be directed to Dr. Michael Robinson at Rose-Hulman (812) 877-8286, robinson@rose-hulman.edu.

HEC-RAS REGISTRATION FORM

Please complete all information fields

Last Name, First Name, Middle Initial

Mailing Address Home or Work (Please Check) Agency/Company Name

City, State, Zip

Email Address

Phone

Fax

PAYMENT: \$600 in advance of program

Registration Fee enclosed (make check payable to Rose-Hulman Institute of Technology)

____ Please check if you have a laptop computer you can bring to the workshop. Supported Operating Systems: Windows XP, Vista, and 7, both 32-bit and 64-bit. Attendees who bring their own laptop are asked to install the software prior to arrival.

____ Please check if your company has additional people who want to attend these Workshops

PLEASE COMPLETE THE FOLLOWING INFORMATION FOR USE BY THE INSTRUCTORS:

HYDRAULIC MODELING PROFICIENCY

____ HEC-RAS, version _____
____ HEC-2
____ WSPRO
____ Other (Please Describe: _____)

PROFESSIONAL MEMBERSHIP

____ INAFSM
____ ASCE, _____ BRANCH

*Please mail all registration forms to:
Dr. Michael Robinson
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Terre Haute, IN 47803
Fax 812-877-8440