

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**

**August 24, 2006
October 12, 2006
November 16, 2006**

**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 for one-dimensional steady and unsteady flow river hydraulics calculations. 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 introducing HEC-RAS which is tailored for practicing engineers. Workshop session no. 3 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 Transportation, 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 at the Rose-Hulman Institute of Technology located on 5500 Wabash Ave, Room 203 Olin Hall. Maps are available upon request. Parking is available onsite. Breakfast and lunch will be provided as part of the workshops.

REGISTRATION

The registration fee of \$500.00 includes all three workshops. The HEC-RAS manual and computer program will be provided on a CD. Instructor's course notes will be distributed at the beginning of each workshop. Registration will be limited to 40 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 August 3, 2006.

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 August 17, 2006.

Questions may be directed to Dr. Kevin Sutterer at Rose-Hulman (812) 877-8959, sutterer@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: \$500 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. (Minimum requirements include: Pentium II or higher processor, CD Rom drive, 40 Meg free space, recommend 100 Meg, 64 Meg RAM, recommend 128 Meg, and Color video display) A CD with the program will be mailed to you with instructions for loading the program before Session No. 1

____ 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. Kevin Sutterer
Rose-Hulman Institute of Technology
5500 Wabash Ave., CM 59
Terre Haute, IN 47803
Fax 812-877-8440