



Maryland Society of
Professional Engineers

American Society of
Civil Engineers
Maryland Section



Presenting
A One-Day, Hands-On Workshop

WIN TR 55

Small Watershed Hydrology Program

Catonsville Campus, Community College of
Baltimore County
April 17, 2009

Produced by Maryland Society of Professional Engineers
In association with the Natural Resources Conservation Center, USDA
Cosponsored by the Mid-Atlantic Surveyors Education Institute



Introduction

The TR-55 hydrologic model and program is one of the most widely used computational tools for hydrologic analysis and stormwater management computations in Maryland and throughout the US. The Natural Resources Conservation Service (NRCS) of the US Department of Agriculture (USDA) has recently released a windows-based version of the TR-55 model and in a joint effort with the Maryland Society of Professional Engineers will be presenting a one-day workshop of the WIN TR-55 model and program.

Who Should Attend

This workshop will be useful to anyone involved in the use or review of the TR-55 model data. This includes local, state and federal government administrators and regulators; developers, builders, contractors; land use and development planners, civil and environmental engineers, landscape architects; environmental professionals and consultants; environmentalists and interested citizens.

Format

This one-day lecture/participation course will be a hands-on workshop. Participants are encouraged to bring along a laptop so that they can work on sample problems provided in the workshop. Participants may be requested to work in groups of 2 or 3 depending on the size of the class. Participants can download the WIN TR55 program directly from the NRCS website at: <http://www.wcc.nrcs.usda.gov/hydro/hydro-tools-models-wintr55.html>. In addition, the course notebook will include a CD with the program, training materials, and example problems.

Instructors

The primary instructor for the workshop will be William H. Merkel, P.E. He has over 32 years of experience in NRCS as a Hydraulic Engineer. He has worked in California, Nevada, Texas, Ohio, and Maryland. He currently supervises a staff of engineers who are engaged in a wide variety of technology development arenas such as rainfall/runoff relationships, water quality modeling, stream restoration, and GIS applications in hydrology and hydraulics. He has an MS, Civil Engineering, from MIT and a BS, Civil Engineering, University of Cincinnati. Mr. Merkel will be assisted by a number of other staffers from NRCS.

Save these dates

Other hydrologic workshops:

April 28-29 ~ a Two-Day Workshop on TR-20 for Windows

May 20-21-22 ~ a Three-Day workshop on HEC RAS

ALSO COMING IN MAY

Dates to be announced ~ a Two-Day Workshop on Highway Geometric Design

Dates to be announced ~ a Two-Day Workshop on Traffic Engineering

May 15 & May 16 – “Creating an Extraordinary Organization – the Mindset of Leadership”

A one-day session in the Baltimore area and a second session in Alexandria with Scott Hunter, engineer-attorney and author of “Making Work Work, a Leader’s Guide to Creating an Extraordinary Organization”

WIN TR55 COURSE OUTLINE:

8:00- 8:30am	Registration	1:00 – 4:00 pm	Modeling Structures – Part II
8:30– 9:15 am	Overview of WinTR-55/Basic Data Input& Output	1:30 – 4:45 pm	Example 3: Multiple Sub-area Watershed with Structure
9:15 – 9:45 am	Example 1: Single Sub-area Watershed	2:00 – 2:30 pm	Custom Runoff Curve Numbers
9:45 – 10:00 am	Break	2:30 – 2:45 pm	Break
10:00 – 10:45 am	Sub-area and Reach Concepts	2:45 – 3:15 pm	Custom Rainfall Distributions
10:45- 11:15 am	Example 2: Multiple Sub-area Watershed	3:15 – 3:45 pm	Custom Unit Hydrographs
11:15- 12:00 pm	Modeling Structures	3:45 – 4:30 pm	Example 4: Incorporating Advanced Features
12:00 – 1:00 pm	Lunch	4:30 – 5:00 pm	Wrap-up / Question and Answer What haven't we done?

- ~ **Time:** Registration is from 7:30-8 am. Morning sessions 8:00 AM - 12 noon. Afternoon sessions 1 - 5 PM
 ~ **Pre-register:** By mail: 19 Hamill Rd., Unit E., Balto, MD 21210 By phone: 410-675-8967
 By e-mail: mdspe@comcast.net By fax: 410-505-1511

~ Tuition Fees	MEMBER	NONMEMBER
Early Bird (registration received by April 10)	\$299	\$ 389
Late (registration received on or after April 10)	\$499	\$ 599

- ~ **Location:** This workshop will be held in Room H308A in H Building on the Catonsville Campus of CCBC, 801 S. Rolling Rd., Baltimore, MD 21228
 ~ **Walk-in registration:** If space is available, you may register at the door. **But it you have not pre-registered**, you should confirm that space is available and that there have been no schedule changes by phone the day before the seminar. 410-675-8967.
 ~ **Refund Policy:** We understand your schedule maybe subject to unavoidable changes. We will be happy to honor substitutions. You may receive a full refund if you cancel your registration at least 7 days in advance of the seminar.
 ~ **Format:** This seminar will be presented in a live, interactive, lecture-style program.
 ~ **Inclement Weather:** In the event of inclement weather, check the college website at <http://www.ccbcmd.edu>
 ~ **CPC Credits:** Approved for 8 Maryland Surveyor Category A Credits by the Mid-Atlantic Surveyor Education Institute.

Other MDSPE Hydrologic Workshops:
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WIN TR55 WORKSHOP REGISTRATION FORM

**MAIL, FAX OR E-MAIL REGISTRATION FORM TO: Maryland Society of Professional Engineers
 19 E Hamill Rd., Balto, MD 21210 ~ Phone 410-675-8967 ~ Fax 410-505-1511 ~ E-mail mdspe@comcast.net**

NAME _____
 JOB TITLE _____
 EMPLOYER _____
 ADDRESS _____
 CITY _____ ST _____ ZIP _____
 PHONE _____ FAX _____
 EMAIL ADDRESS _____

Member of: ASCE Maryland Section Membser Knumber _____
 Are you a P.E.? yes Are you an L.S. yes Are you an L.A. yes

A limited number of scholarships are available for NRCS personnel. Call 410-675-8967 or email mdspe@comcast.net

Check is being mailed payable to MDSPE Purchase Order No. _____ Check enclosed _____ **Total:** _____