

REGISTRATION

The registration fee is \$120 per person. A Tennessee city or county employee is eligible for a **TTAP scholarship** registration fee of **\$45**. TDOT employees must register through their local TDOT Training Office. Please note your employment status on the registration form. The workshop fee covers the cost of breaks and lunch. Please let us know of any special dietary needs. A course may be canceled if there is low enrollment. Forty-eight hours notice will be given to registrants if a course is canceled. **Register early! Limited enrollment.**

CANCELLATION POLICY

Due to commitments to our instructors and facilities, the registration fee is not refundable if a registrant withdraws less than forty-eight hours before the workshop. You may substitute registrants; please notify us in advance if possible. Please register early as attendance to our workshops have increased. We may not accommodate walk-ins on the day of the workshop.

HOW TO REGISTER

Fill out the attached registration form and fax/mail to the address below:

Tennessee Transportation Assistance
Program (TTAP)
Attn: Diana Webb
Center for Transportation Research
The University of Tennessee
Suite 309, Conference Center Bldg.
Knoxville, TN 37996-4133
Tel: 865-974-5255 Fax: 865-974-3889
Web: ctr.utk.edu/ttap

MAIL/FAX REGISTRATION TO:	
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RETURN AS SOON AS POSSIBLE	
ROADWAY DRAINAGE DESIGN (Copy and fill out one for each registrant)	
(Please print)	
NAME:	
TITLE:	
ORGANIZATION:	
STREET ADDRESS:	
CITY:	STATE/ZIP:
PHONE:	FAX:
EMAIL:	
Please check appropriate box:	
<input type="checkbox"/> \$45 (Employee of Tennessee City or County)	<input type="checkbox"/> \$120 (Others)
Payment by:	
<input type="checkbox"/> Check (payable to The University of Tennessee)	
<input type="checkbox"/> Cardholder's Name/Signature	
<input type="checkbox"/> Card No:	Expires:

ROADWAY DRAINAGE DESIGN

April 7, 2010
(Knoxville)



SPONSORED BY:
The University of Tennessee
Center for Transportation Research



WHAT THIS IS ABOUT

Management of stormwater flows is critical to both the preservation of infrastructure and the safe operations of roads and streets. Providing facilities to handle stormwater flows is an essential part of the roadway design process. Approximately 25% of roadway construction costs are drainage related. This course addresses the elements of stormwater management in a road or street system, including basic components, design procedures, and regulatory requirements. Upon completion of this course, participants will have a working knowledge of the calculation of stormwater runoff rates and subsequent design of drainage system elements.

WHO SHOULD ATTEND?

The course is designed for local highway and public works officials who are responsible for the design, construction and maintenance of a roadway drainage collection system.

WHEN-WHERE

April 7, 2010 (Knoxville)

NTRC (2nd floor meeting room)

2360 Cherahala Blvd.

Knoxville, TN 37932

Tel: 865-946-1500 for directions

CEUs/PDHs AVAILABLE

The course counts for 0.6 Continuing Education Units (CEUs)/6 Professional Development Hours (PDHs). The University of Tennessee requires a \$10 administrative fee to register CEUs. Registration of CEUs is optional.

INSTRUCTOR

David B. Clarke, P.E., Research Associate Professor, UT-Knoxville

Dr. Clarke is Director at the University of Tennessee Center for Transportation Research. He has over 28 years experience in the transportation engineering profession, including research, design, and education. He has taught traffic engineering operations, including highway capacity analysis and traffic flow theory, at the college level and regularly presents workshops to professional audiences. His research has, for many years, had a focus on the capacity of transportation modes of all types, including highways. Dr. Clarke received his Ph.D. in Civil Engineering from UT-Knoxville. He is a licensed professional engineer in several states.

TENNESSEE ACADEMY FOR TRANSPORTATION ENGINEERING (TATE)

The Tennessee Academy for Transportation Engineering (TATE) is an educational program providing continuing education for engineers, planners, designers and technicians. The program focuses on the basic design of transportation facilities, the evaluation of traffic operations, and the collection of data to support various transportation studies. Successful completion of the required curricula of core and elective courses, confers TATE certification. For more information, contact Frank Brewer at 865-974-5255.

UTK is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA Employer. PAN: R01-1313-130-006-10

AGENDA

8:00 am	Registration
8:30 am	Introduction to roadway drainage
9:00 am	Elements of the drainage system
9:30 am	Roadway cross-section
10:00 am	Break
10:15 am	Estimating stormwater runoff
11:15 am	Exercise-runoff estimation
11:45 am	Lunch (provided)
12:30 pm	Design of open channels
1:20 pm	Exercise-open channel design
1:50 pm	Break
2:00 pm	Design of culverts
2:50 pm	Exercise-culvert design
3:20 pm	Design of detention basins
4:10 pm	Wrap up
4:30 pm	Adjourn
4:35 pm	Written Exam*

**For participants who want to receive credit for the course toward the Transportation Engineering Certificate.*