

The Road Ahead

SPRING 2009

A QUARTERLY NEWSLETTER PUBLISHED BY THE
CENTER FOR TRANSPORTATION STUDIES AT
THE UNIVERSITY OF VIRGINIA



VIRGINIA LTAP

Virginia LTAP Opens Registration for Spring 2009 Workshops

This brochure contains workshop and registration information for Virginia LTAP's Spring 2009 schedule of classes. All workshops are currently open for registration. You may register for any of our Spring workshop offerings by completing and submitting the registration form contained inside this announcement. Please follow the instructions on the form. Contact Jane Carlson, Virginia LTAP Program Manager at 434-982-2897 or ltap@virginia.edu for questions or assistance with registration. For those with Internet access, additional registration forms and information about Virginia LTAP's Spring 2009 schedule can be obtained on-line at <http://ltap.cts.virginia.edu/>

As many Virginia LTAP workshops often sell out, early registration is encouraged. Please act soon to reserve your place in the Virginia LTAP workshops you wish to attend.

Note: On occasion Virginia LTAP has to reschedule or cancel a scheduled workshop due to budgetary restraints, low enrollment, inclement weather, or other factors beyond our control. Up to date information about Virginia LTAP's Spring 2009 schedule – including additions of new workshops or changes - can always be obtained on-line at <http://ltap.cts.virginia.edu/> or by contacting Jane Carlson.

The Road Ahead Going to All-Digital Format

Following this issue *The Road Ahead* will cease to be published in hard copy form. This is in response to increased printing and mailing costs as well as a directive from the Governor of Virginia to all state agencies to convert hard copy publications to digital format wherever possible. *The Road Ahead* will continue to be published on a quarterly basis – but will be distributed by e-mail notification only via a link to the Virginia LTAP website <http://ltap.cts.virginia.edu/newsletters.php>. If you are a hard copy subscriber to *The Road Ahead* and wish to receive future issues please complete the FAX back form on the back page of this edition and submit your e-mail address to the Virginia LTAP office so we can add you to our e-mail distribution list for this and all other Virginia LTAP electronic announcements.

Interested in Hosting a Private LTAP Class?

When time and funds permit Virginia LTAP can bring one of our workshops to your site exclusively for your employees and co-workers. Private workshops can save your organization significant costs and travel time associated with sending your employees to our “public” workshops. If you are interested in hosting a private Virginia LTAP workshop contact Jane Carlson to discuss our minimum attendance requirements, training site needs, cost participation (if necessary), and other relevant factors. We look forward to working with you to meet your training needs.

Virginia LTAP Spring 2009 Workshop Schedule

Traffic Signalization II — Instructor: Dr. Brian Park *NEW for 2009*

April 8, 2009 - Town of Leesburg, Utility Maintenance Building, 1385 East Market St. Leesburg, VA 20176

Public Sector: \$50; Private Sector: \$95

This course is intended for new and experienced engineering personnel involved in the traffic operations who need to enhance their knowledge of traffic signal operations. While this course mainly focuses on traffic signal timing practices and theories, additional material being considered as best practice will also be introduced. Topics to be discussed include the highway capacity manual analysis, common signal timing tools, actuated signal operations, detector and controller settings, and concepts on coordinated signal systems. This workshop is a companion to Traffic Signalization I, which covers fundamental traffic signalization topics. Students may enroll in either or both classes but it is suggested that prospective registrants for Traffic Signalization II possess a working knowledge of the concepts and subjects covered in Traffic Signalization I.

Concrete Essentials for Engineers, Inspectors, and Producers – Instructor: Dr. Celik Ozyildirm

April 30, 2009 - Zehmer Hall Conference Center, 104 Midmont Lane, Charlottesville, VA 22903

Public Sector: \$50; Private Sector: \$95

Concrete is a construction material that has been in widespread use in transportation structures for many decades. It is known for its longevity considering the existence of still functional concrete structures built many centuries ago. However, concrete transportation structures sometimes do not last as long as they should and require expensive repairs. This workshop will provide fundamental information on concrete ingredients, proportioning, consolidation, and curing. This information will assist in designing, specifying, and accepting concrete to achieve safe, durable, and economical structures.

Economic Evaluation of Public Projects — Instructor: Lorenzo Casanova

May 6, 2009 - VDOT Northern Virginia District Training Center, 14685 Avion Parkway, Chantilly, VA 20151

Public Sector: \$50; Private Sector: \$95

Decision-making has become a major aspect of the transportation professional's daily activity. Making good decisions is no longer a luxury but a necessity. This workshop will provide attendees with an analytical framework for decision-making from an economic viewpoint. Workshop attendees will be provided with the theory, knowledge, and tools used to analyze commonly-encountered engineering problems and make realistic choices between competing alternative solutions based on sound engineering and economic principles.

Accident Reconstruction — Instructor: Dr. Ronald Eck *NEW for 2009*

May 12, 2009 - John Tyler Community College, 13101 Jefferson Davis Highway, Chester, VA 23831

Public Sector: \$50; Private Sector: \$95

With the growing number of claims against roadway agencies, traffic crash investigation and reconstruction are key elements of an effective risk management program. On-scene field personnel must be aware of the data needs of the reconstructionist to gather the perishable data required for a successful defense or resolution of a claim. Understanding the capabilities and limitations of accident reconstruction will prepare agency attorneys to better evaluate a claim's validity. At-scene and after-accident investigation and data collection are discussed. Collection techniques for roadway, vehicle, and other crash-related data are described. Common reconstruction techniques and their applications are reviewed.

Designing Pedestrian Facilities for Access — Instructor: Dr. Ronald Eck *NEW for 2009*

May 13, 2009 - John Tyler Community College, 13101 Jefferson Davis Highway, Chester, VA 23831

Public Sector: \$50; Private Sector: \$95

Sidewalks, like roadways, need to be designed to serve all users. To meet the requirements of all sidewalk users, designers and builders need a clear understanding of the wide range of abilities that occur within the population. Pedestrian facility design and operation must comply with accessibility standards under the Americans with Disabilities Act 1990. This workshop focuses on all current and emerging accessibility issues and the design parameters that affect sidewalk and street crossing design and operation.

Effective Technical Writing – Instructor: Dr. Bernie Carlson

May 18, 2009 - VDOT Fredericksburg District Training Center, Fredericksburg, VA 22401

Public Sector: \$50; Private Sector: \$95

One of the major challenges faced by engineers is to convey the intricacies of technology to a variety of audiences. This workshop will introduce you to the basic

principles of effective technical communication and show you how to write and edit professional documents. You will learn how to approach writing tasks, how to design documents for different audiences, and proven techniques for revising and polishing your writing in order to get your point across. You are encouraged to bring a sample of the kind of writing you are interested in!

Basic Work Zone Traffic Control – Instructor: Katherine Hinson
Five Spring 2009 sessions to choose from:

May 19, 2009 - University of Virginia, Zehmer Hall, 104 Midmont Lane, Charlottesville, VA, 22904
May 20, 2009 - John Tyler Community College, 13101 Jefferson Davis Highway, Chester, VA 23831
May 26, 2009 - VDOT Lynchburg District Office, 4219 Campbell Ave., Lynchburg, VA
June 24, 2009 - SW VA Higher Education Center, One Partnership Circle, Abingdon, VA 24210
June 25, 2009 - Wytheville Meeting Center, 333 Community Blvd., Wytheville, VA 24382
Public Sector: \$55; Private Sector: \$100

As traffic volumes increase and the need to repair and improve roadways becomes greater, so does the need to plan, install, and review work zone traffic control to effectively and safely perform the work. Federal requirements now instruct state and local governments to train personnel in work zone traffic control relevant to the job decisions that each individual is required to make. This workshop provides training needed to properly install work zones to perform daily maintenance or short-term operations. Emphasis is placed on the basics of work zone traffic control, focusing on work zone devices and how to effectively install and maintain them. At the conclusion of this workshop, a short open-book written exam will be administered to all attendees. A VDOT-issued training card will be given to each attendee who achieves a passing grade of 80% or higher.

Guard Rail Installation: Inspector's Version – Instructor: Paul E. Kelley * NEW for 2009*

May 27, 2009 - Woodrow Wilson Rehabilitation Center, 292 Woodrow Wilson Lane, Fishersville, VA 22939
Public Sector: \$50; Private Sector: \$95

This workshop provides instruction in determining the need for barrier, selection of the appropriate barrier system, various guardrail systems and their components, transitions between systems, terminal treatments, and computing the required length of the barrier. Topics include a thorough explanation and review of current National Cooperative Highway Research Program (NCHRP) 350 requirements as well as VDOT guardrail guidelines. At the conclusion of this workshop, a short open-book written exam will be administered to all attendees. Students who achieve a passing grade of 80% or higher will be issued a Guardrail Installation, Replacement, and Repair accreditation card by the Virginia Department of Transportation.

Highway Safety Fundamentals: Identifying Hazardous Sites—Instructor: Dr. Joe Hummer *New for 2009*

June 17, 2009 - Virginia Transportation Research Council, 530 Edgemont Rd., Charlottesville, VA 22903
Public Sector: \$50; Private Sector: \$95

Building, operating and maintaining safer roads and bridges is one of the key emphasis areas of any highway agency. Although collision rates are falling in Virginia and throughout the US from year to year crash frequency is still too high. Fortunately, the techniques available to highway professionals as they try to provide safer highways are improving quickly. Professionals can now make sound decisions based on solid data and rigorous analytical methods. Lives and injuries will be saved by the application of these improved techniques. This workshop will provide instruction on the latest techniques that safety professionals can use to identify high hazard locations. The session will review traditional selection techniques and will introduce new ones such as Bayesian methods, sites with promise, and induced exposure.

Access Management – Instructor: Dane Ismart

June 29-30, 2009 – Holiday Inn Roanoke, 4468 Starkey Rd SW, Salem, VA
Public Sector: \$100; Private Sector: \$195

The workshop will cover the latest access design principles, access management techniques, retrofit programs, legal implications, and design guidelines. Included in the materials will be examples of State Highway Access Code and procedures for estimating the potential benefits from an access management program. Impacts on the business community will also be discussed.

[See more Spring 2009 workshops on reverse side of registration form.](#)

Virginia LTAP FAX Back Form—FAX to (434) 982-2856

It is vital that we have current contact information for those who participate in this program so we can send you our newsletter and relevant workshop announcements. Please use this form to add, delete, or modify your contact information. You can fax this form to Virginia LTAP at the number above or mail the completed form to Virginia LTAP, University of Virginia, Center for Transportation Studies, 351 McCormick Road, PO Box 400742, Charlottesville, VA 22904-4742.

Today's Date:

Name: Mr.
 Mrs.
 Ms

Organization:

Title:

Address

City/State:

Zip:

Phone:

Fax:

Cell:

Email (required):

Please check your affiliation below:

City County State Federal University Other: _____

Please select all that apply:

Add me to your mailing list Remove me from your mailing list

Correct my information as indicated above



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CENTER FOR TRANSPORTATION STUDIES AT
THE UNIVERSITY OF VIRGINIA

University of Virginia

VIRGINIA LTAP

Center for Transportation Studies
351 McCormick Road
PO Box 400742
Charlottesville, VA 22904-4742

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Charlottesville, VA



VIRGINIA LTAP

Virginia LTAP Workshop Registration Form Spring 2009

Instructions: Complete and submit one registration form per registrant per class. Make as many copies of this registration form as needed for registering multiple individuals and/or multiple classes.

Method of Payment

Sorry, credit cards and online payments cannot be accepted. Make check payable to the **Center for Transportation Studies (VA-LTAP)** and send payment with your registration form to:

Virginia LTAP

Center for Transportation Studies
351 McCormick Rd, Room D202
Thornton Hall, P.O. Box 400742
Charlottesville, VA 22904-4742
Attention: Jane Carlson

The registration fee covers the session, all workshop materials, and continental breakfast and lunch each day

Please note that faxed-in registration forms will be considered as a "provisional booking" only. Registration is confirmed once payment is received. For more information, contact Jane Carlson at (434) 982-2897, fax at (434) 982-2856 or email ltap@virginia.edu.

Name: _____

Position: _____

Organization: _____

Address: _____

City: _____ **State:** _____ **Zip:** _____

Phone: (____) _____ **Fax:** (____) _____

Email: _____

I would like to register for the following Virginia LTAP workshop:

Workshop Title: _____

Location: _____ **Date(s):** _____

Fee: \$ _____ (see fee schedule) (Note: Fee for Basic Work Zone Traffic Control is \$55 (public) and \$100 (private))

Fee Schedule (per person)

VDOT Employees:	No Charge (see Special Registration Instructions for VDOT employees)		
Other Public Sector:	\$50 (one day workshop)	\$100 (two day workshop)	\$150 (three day workshop)
Private Sector:	\$95 (one day workshop)	\$195 (two day workshop)	\$295 (three day workshop)

Please advise us of any special needs: _____

Special Registration Instructions for Employees of the Virginia Department of Transportation

Virginia LTAP workshop registration fees and related expenses for all VDOT employees will be paid from the VDOT Learning Center budget. Virginia LTAP will direct bill the VDOT Learning Center for workshop registration fees. However, registrants need to contact their District Training Office or the VDOT Learning Center (Central Office employees) for instructions on how to seek reimbursement for travel expenses. Please also note that it is not sufficient to enroll in a Virginia LTAP workshop through the VDOT Virtual University. **VDOT registrants MUST also complete and submit a Virginia LTAP registration form to the Virginia LTAP office.** Due to current travel restrictions, VDOT employees are strongly encouraged to attend Virginia LTAP workshops on a day trip basis. Overnight travel requires permission from your District Administrator or Chief – and in some cases higher levels of authority. If you require overnight lodging to attend a Virginia LTAP workshop, consult with your supervisor, District Training Manager, or VDOT Learning Center on travel approval procedures.

Introduction to Roundabouts – Instructor: Dane Imart

July 1, 2009 – VDOT Lynchburg District Office, 4219 Campbell Ave., Lynchburg, VA

Public Sector: \$50; Private Sector: \$95

Covers design principles, analysis, and operational characteristics of roundabouts. Provides instruction on how to estimate capacities, queue lengths, delay, and levels of service associated with roundabouts. Roundabout design principles will also be illustrated using roundabout design software.

Traffic Engineering Studies – Instructor: Dr. Michael Fontaine

July 15, 2009 - Town of Leesburg Utility Maintenance Building, 1385 East Market St., Leesburg, VA 20176

Public Sector: \$50; Private Sector: \$95

This course will discuss the most common field data collection studies that traffic engineers and technicians conduct. Participants will learn procedures for collecting important traffic data like speeds, volume, sight distance, and travel time. Methods to analyze crash data and traffic signal warrants will also be discussed. The workshop will be conducted with manual procedures, but appropriate computer applications will also be demonstrated.

About Virginia LTAP

The Virginia Local Technical Assistance Program (Virginia LTAP) is located at the University of Virginia's Center for Transportation Studies in Charlottesville, VA. Virginia LTAP is part of a national network of LTAP centers supported by the Federal Highway Administration and matching funds provided by each state. The national mission of the LTAP program is to foster a safe, efficient, environmentally sound transportation system by improving the skills and knowledge of local transportation service providers through training, technical assistance, and technology transfer activities. For more information contact one of the staff members:

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