

# The Road Ahead

FALL 2009

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CENTER FOR TRANSPORTATION STUDIES AT  
THE UNIVERSITY OF VIRGINIA



VIRGINIA LTAP

## Virginia LTAP Opens Registration for Fall 2009 Workshops

This brochure contains workshop and registration information for Virginia LTAP's Fall 2009 schedule of classes. All workshops are currently open for registration. You may register for any of our Fall workshop offerings by completing and submitting a 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](mailto:ltap@virginia.edu) for questions or assistance with registration. For those with Internet access, additional registration forms and information about Virginia LTAP's Fall 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 Fall 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.

## Virginia LTAP Classes May Qualify for Virginia PE License Renewal Continuing Education Credits

In April 2009 the Commonwealth of Virginia Department of Professional and Occupational Regulation (VA DPOR) promulgated new regulations regarding continuing education requirements for holders of the Professional Engineer (PE) license in Virginia. (See [http://www.dpor.virginia.gov/dporweb/ape\\_reg.pdf](http://www.dpor.virginia.gov/dporweb/ape_reg.pdf), particularly pp 65—69 *18VAC10-20-683 Continuing Education Requirements for Renewal or Reinstatement* for full details.) Virginia LTAP classes may help Virginia PE license holders meet the new VA DPOR continuing education requirements. Most one-day Virginia LTAP workshops involve 6.5 hours of instructional “contact time”. Under the new regulations, 50 minutes of “contact time” equals one professional development hour (PDH) for Virginia PE license renewal purposes. Therefore, attending a typical one-day Virginia LTAP class earns the license holder 7.8 PDHs. For a typical two-day class (13.0 instructional hours) license holders earn 15.6 PDHs, and so on. Virginia LTAP provides an attendance certificate to each student that completes one of our classes that documents the number of instructional “contact hours” for that class. Virginia PE license holders should retain that certificate for documentation in the event of an audit by VA DPOR.

If you have questions about the new regulations contact the Virginia Department of Professional and Occupational Regulation Board for Architects, Professional Engineers, Land Surveyors, Certified Interior Designers and Landscape Architects (APELSCIDLA Board) at (804) 367-8506 or 367-8512 or e-mail at [apelscidla@dpor.virginia.gov](mailto:apelscidla@dpor.virginia.gov).

### Virginia LTAP Fall 2009 Workshop Schedule

#### **Site Impact Analysis – Instructor: Dane Ismart**

September 29- 30, 2009 - VDOT Fredericksburg District Office, 86 Deacon Road, Fredericksburg, VA 22401

Public Sector: \$100; Private Sector: \$195

*Participants will learn the latest techniques for estimating the traffic impacts of both small and large site developments. Included in the materials will be procedures for land use forecasting, trip generation, trip distribution and assignment, and site impact layout design. Levels of service will also be covered. The workshop will be conducted with manual procedures, but computer software packages suitable for site impact analysis will also be demonstrated.*

#### **Basic Work Zone Traffic Control — Instructor: Katherine Hinson**

##### **Two Fall 2009 offerings to choose from:**

October 1, 2009 - Virginia Transportation Research Council, 530 Edgemont Rd., Charlottesville, VA 22903

October 29, 2009 - John Tyler Community College, 13101 Jefferson Davis Highway, Chester, VA 23831

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.*

#### **Intermediate Work Zone Traffic Control — Instructor: Katherine Hinson**

##### **Two Fall 2009 offerings to choose from:**

October 7-8, 2009 - VDOT Lynchburg District Office, 4219 Campbell Ave., Lynchburg, VA 23666

November 12-13, 2009—Arlington County Offices, 2700 STaylor Street, Arlington, VA 22206

Public Sector: \$125; Private Sector: \$220

*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 and monitor work zones for construction and maintenance projects for long-term (greater than three consecutive days) operations. This course provides comprehensive training on work zone standards, guidelines, installations and removal procedures, inspection, liability, documentation and supervisory skills. Several workshops included in this course are designed to provide hands-on experience implementing and modifying temporary traffic control plans for various real-life situations. It also teaches how to recognize, analyze, correct, and document deficiencies. 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.*

#### **Winter Maintenance – Instructor: Alan Gesford**

##### **Two Fall 2009 Session to choose from:**

October 20, 2009 - Wetland Studies and Solutions, Inc., 5300 Wellington Branch Drive, Suite 100, Gainesville, VA 20155

November 4, 2009—Western Virginia Water Authority, Field Operations Center, 3322 Hollins Road, N.E., Roanoke, VA 24012

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

*This course covers winter operations. The session begins with the importance of winter operations and planning and organizing. The key elements of a comprehensive plan, including a good public relations program, are presented. Various materials for snow and ice control are reviewed including abrasives, salt, and other chemicals. Their use and performance, handling and storage, and effect on health, safety, and the environment are discussed. Available snow fighting equipment and accessories are introduced along with discussions on preventive maintenance and efficient storage facilities. Plowing operations and materials spreading are presented with deicing, pre-wetting, and anti-icing procedures along with tips for increasing efficiency and effectiveness. The session concludes with a discussion on safety for winter operations and work crews.*

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### **Drainage: The Key to Roads That Last Two Fall 2009 Session to choose from:**

October 21, 2009 - Wetland Studies and Solutions, Inc., 5300 Wellington Branch Drive, Suite 100, Gainesville, VA 20155  
November 5, 2009 - Virginia Transportation Research Council, 530 Edgemont Rd., Charlottesville, VA 22903  
Public Sector: \$50; Private Sector: \$95

*This course emphasizes the importance of good drainage with discussions of water and its effects on roads, problems caused by improper drainage, and ways to handle these problems. Drainage facilities (ranging from ditches, culverts, and sub-drains to inlets and end structures), their uses, materials, installation, and maintenance are covered along with an introduction to geo-synthetics for drainage applications. A detailed presentation on pipe installation procedures from planning and preparation to excavation, pipe placement, and backfilling, to end treatments and cleanup, is included.*

### **Gravel Roads Maintenance**

November 6, 2009 - Virginia Transportation Research Council, 530 Edgemont Rd., Charlottesville, VA 22903  
Public Sector: \$50; Private Sector: \$95

*This session addresses basic maintenance techniques for unpaved and gravel roads, beginning with discussions on proper crown and cross-slope and the common distresses of gravel roads. We will look at road aggregate materials – what makes a good gravel road aggregate – and discuss the importance of good drainage. Discussions will then turn to basic maintenance techniques, covering blading or dragging, reshaping or regrading for proper crown, regravelling, dust control, and road stabilization. In addition, we will look at the use of Geosynthetics, particularly separation fabrics, and their advantages for gravel roads. Our attention will then turn to additional maintenance techniques covering erosion and sedimentation control, roadside vegetation, and bridges. The session will close with a discussion on ‘When to Pave a Gravel Road’.*

### **Highway Safety Fundamentals: Evaluating Countermeasures—Instructor: Dr. Joe Hummer \*New for 2009\***

October 28, 2009 - John Tyler Community College, 13101 Jefferson Davis Highway, Chester, VA 23831  
Public Sector: \$50; Private Sector: \$95

*Safety is one of the key objectives of all highway agencies. Collision rates are falling in Virginia and throughout the US from year to year but they are still too high. Fortunately, the techniques available to highway professionals to provide safer highways are improving quickly. Professionals can now make sound decisions based on solid data. Lives and injuries will be saved by the application of these improved techniques. This course will instruct attendees on the latest techniques that are being used to measure the effectiveness of highway safety countermeasures. The session will cover traditional "before and after" studies with collision data and newer statistical-based techniques to remove biases in the results such as comparison sites, Bayesian techniques to remove regression to the mean, and controlled experiments.*

### **Beyond Compliance: Historic Preservation in Transportation Project Development (National Highway Institute Course 142049)**

December 8-10, 2009 - John Tyler Community College, 13101 Jefferson Davis Highway, Chester, VA 23831  
Fee - All Participants: \$450

*The regulations implementing Section 106 of the National Historic Preservation Act strongly encourage close coordination between Section 106 activities and National Environmental Policy Act (NEPA) requirements, as well as consultation with Native Americans, local communities, and the public. The regulations also give agencies flexibility to streamline the Section 106 consultation process. This course is designed to help transportation professionals, local governments, and historic preservation specialists meet the requirements of Section 106 and take advantage of the flexibility and autonomy offered by the Section 106 regulations. The course focuses on the fundamentals of NEPA, Section 106, and Section 4(f) of the Department of Transportation Act, and provides techniques for coordinating transportation planning, project development, and compliance with these three laws. The emphasis is on practical approaches for real-world situations and the importance of balancing stewardship and project delivery.*

## 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.

## 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:

### Bill Kelsh

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### Virginia LTAP

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**VIRGINIA LTAP**

# Virginia LTAP Workshop Registration Form Fall 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 out a check or government purchase order to the **Center for Transportation Studies (VA-LTAP)** and send 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](mailto: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: Special fees apply for Basic Work Zone Traffic Control, Intermediate Traffic Control, and Beyond Compliance: Historic Preservation in Transportation Project Development)

### General Fee Schedule (per person—note exceptions above)

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.

