



**MARYLAND  
TRANSPORTATION  
TECHNOLOGY  
TRANSFER CENTER**

Local Technical  
Assistance Program  
(LTAP)  
University of Maryland  
at College Park

[mdt2center.umd.edu](http://mdt2center.umd.edu)

**INSIDE:**

**Page 2**  
Roadway  
Management  
Conference: Last  
Call for Early  
Bird!

**Pages 3-5**  
Our Currently  
Scheduled  
Courses

# technotes

Summer 2018 | Volume 35, No. 2

## We're Headed to MACo!!

We had such a great time at last year's Maryland Association of Counties (MACo) we decided to head back to the beach and attend the conference again!



*Left to right: Carly Keane, Governor Larry Hogan & Janette Prince*

This year's conference is August 15-18, 2018 at the Roland Powell Convention Center in Ocean City, Maryland.

The MACo's 2018 Summer Conference will focus on all the ways counties work with water. From the health of the Bay and Maryland's waterways to the infrastructure, treatment, and regulations that ensure safe and healthy water flows through

our pipes, county governments are keeping our residents afloat. Conference sessions will discuss the Bay, water infrastructure, watermen and oyster/fishery/habitat issues, floods and other natural disasters, and ways to put the wind back in the sails of a tight budget.

Last year, our booth got a visit from Governor Hogan! Stop by our booth (519) this year for a sweet treat and some innovative swag!



**Will you be at MACo?  
Visit Carly & Janette at  
booth 519!**

## Roadway Management Conference: Last Call for Early Bird!



### The RMC is Back!

The Mid-Atlantic (Delaware, Maryland, Pennsylvania, Virginia, and West Virginia) Transportation Technology Transfer (T2) Center and Local Technical Assistance Programs (LTAP) are excited to announce the 17th Roadway Management Conference (RMC) October 15-17, 2018 at the Eisenhower Hotel in Gettysburg, PA.

The RMC is targeted to practitioners who manage, construct, and maintain state, county, and municipal roads and streets. This group includes elected officials, managers, engineers, technicians, supervisors, and contractors. In addition to a variety of conference topics we will also have companies showcasing products and conducting demonstrations.

### Registration Fees:

#### Attendees:

\$150 by September 15, 2018

\$175 after September 15, 2018

#### Vendors:

\$815

#### Reservations:

Eisenhower Hotel

2634 Emmitsburg Road

Gettysburg, PA 17325

Phone: 717.334.8121

Group rate: \$106 per night + 11% tax  
(rate is available until September 15).

<https://roadwaymanagementc.wixsite.com>



The following courses are currently scheduled and we are still adding to the list! For more information or to schedule a class, contact Janette Prince at 301.405.6535 or register online at [www.mdt2center.umd.edu](http://www.mdt2center.umd.edu).

### CONTEXT BASED COMPLETE STREETS

**Location:** MD T2 Center at College Park, Maryland

**Date:** August 21, 2018

**Time:** 8:30am - 3:30pm

This course instructed by Richard A. Hall, P.E. explains emerging context classifications and the way street designs must vary significantly in each context. Many unique design elements, well suited for suburban context are wrong for the urban context. Policies and standards are described to meet the new challenge of greater efficiency and safety for all modes, in all diverse context areas. In class, and in the field, workshop exercises yield better understanding of unique street designs based on adjacent context.

**Professional Development Hours:** 6.0

**Registration Fees:** \$110 for all participants.

### GRAVEL ROAD MAINTENANCE

**Location:** MD T2 Center at College Park, Maryland

**Date:** August 28, 2018

**Time:** 8:30am - 3:30pm

This course instructed by Ed Stellfox addresses basic maintenance techniques for unpaved and gravel roads. Topics include road materials, blading or dragging, reshaping or regrading for proper crown, regravelling, stabilization or full-depth reclamation, and dust control, with an introduction to road management techniques.

**Professional Development Hours:** 6.0

**Registration Fees:** \$99 for all participants.

### INTRODUCTION TO GEOSYNTHETICS

**Location:** MD T2 Center at College Park, Maryland

**Date:** August 29, 2018

**Time:** 8:30am - 3:30pm

This course is an introduction to geosynthetics, beginning with a discussion of geosynthetics, what they are, how they are made and how they can be used in a road maintenance program. The course then looks at other geosynthetics and their road system uses, including geogrids, geocells and geoweb, presenting new materials with new applications. This course instructed by Ed Stellfox, will cover the following topics: history; materials (geotextile fabrics, geogrids, geocells and geoweb); uses and applications of drainage, erosion control, reinforcement, separation, and reflective crack control.

**Professional Development Hours:** 6.0

**Registration Fees:** \$99 for all participants.

### ROAD SURFACE MANAGEMENT

**Location:** MD T2 Center at College Park, Maryland

**Date:** September 11, 2018

**Time:** 8:30am - 3:30pm

This course instructed by Ed Stellfox provides participants with the basic concepts of road surface management including inventory, distress identification, condition survey, strategies, programs, budgets, and field surveys. A Road Surface Management Systems software demonstration will also be conducted during this course.

**Professional Development Hours:** 6.0

**Registration Fees:** \$99 for all participants.

### INTRODUCTION TO TEMPORARY TRAFFIC CONTROL

**Location:** MDT2 Center in College Park, Maryland

**Date:** September 12, 2018

**Time:** 8:30am - 3:30pm

An introductory course to temporary traffic control (TTC) in highway work zones. This one-day course instructed by Juan M. Morales, P.E. is designed to give participants a complete overview of TTC in work zones, including applicable standards, guidelines, traffic control devices, component parts and their requirements, installation/removal considerations, and pedestrian accessibility. This course will prepare participants to take the Maryland SHA Traffic Manager's course. The course is intended for anyone whose actions affect safety on temporary traffic control work zones, including traffic managers, traffic technicians, inspectors and designers.

**Professional Development Hours:** 6.0

**Registration Fees:** \$100 for Maryland local government participants and \$125 for all other participants.

### ROAD SAFETY 365 WORKSHOP

**Location:** MD T2 Center at College Park, MD

**Date:** September 13, 2018

**Time:** 8:30am - 3:30pm

This one-day workshop focuses on processes for incorporating safety into all aspects of local and rural projects, and on making safety a priority through inclusion in the traditional decision-making process - 365 days a year. The course stresses the importance of road safety, and illustrates how it can be integrated into rural/local transportation project development at all stages: planning, design, construction, implementation, operations, and maintenance. Through practical exercises and facilitator-led discussions, the emphasis is on operations and maintenance to reflect the predominant, day-to-day responsibilities of rural/local transportation agencies. The benefits and potential cost savings of safety initiatives are shown using examples from rural/local agencies.

**Professional Development Hours:** 6.0

**Registration Fees:** \$100 for all participants.

Continued on page 4

## Our Currently Scheduled Courses

(continued from page 3)

### FLAGGER CERTIFICATION

**Location:** MD T2 Center at College Park, Maryland  
**Date:** September 14, 2018  
**Time:** 8:30am - 12:30pm

A MD SHA-approved ATSSA (American Traffic Safety Services Association) flagger card will be issued upon satisfactory completion of this course. This will be valid for 4 years and is acceptable in several states, including MD, VA and DC. The class instructed by Juan M. Morales, P.E. is presented in PowerPoint© and will include a 25-question multiple choice exam and a flagger demonstration (dexterity test). Students will receive their ATSSA Flagger Certification card the day of the course (upon passing the exam).

**Professional Development Hours:** 4.0.  
**Registration Fees:** \$100 for all participants.

### TECHNIQUES FOR REDUCING CONSTRUCTION AND MAINTENANCE COSTS

**Location:** MD T2 Center at College Park, Maryland  
**Date:** September 27, 2018  
**Time:** 8:30pm - 3:30pm

Counties and municipalities bear a considerable financial burden with respect to the construction and maintenance of roadways. Inflation, increasing cost of labor, materials and fuel have risen steeply in the past few years. At the same time, municipal budgets have not kept pace. It is essential to conserve resources, find energy efficient and low maintenance materials and to use more efficient techniques. This workshop instructed by Ed Stellfox, will conclude with groups of participants developing a cost control plan for a project.

**Professional Development Hours:** 6.0.  
**Registration Fees:** \$99 for all participants.

### DESIGNING SAFER ROADS FOR PEDESTRIAN AND BICYCLISTS

**Location:** MD T2 Center at College Park, Maryland  
**Date:** October 2, 2018  
**Time:** 8:30am - 3:30pm

This course, instructed by Juan M. Morales, P.E., will teach participants how to diagnose pedestrian and bicyclist safety deficiencies and select the appropriate countermeasures to make conditions safer for all users. The course includes an overview of the American with Disabilities Act (ADA) accessibility requirements and a field trip where students will be exposed to various design elements. Engineering countermeasures will be emphasized but education and enforcement countermeasures will also be covered. The following modules will be covered: infrastructure safety management; understanding pedestrians and bicyclists; pedestrians and bicyclists countermeasures; ADA requirements; roundabouts; field trip; and development of a Safety Action Plan. Audience: Engineer, Safety and Roadway Designers as well as individuals with Traffic/Transportation interests.

**Professional Development Hours:** 6.0  
**Registration Fees:** \$100 for all participants.

### FLAGGER CERTIFICATION

**Location:** MD T2 Center at College Park, Maryland  
**Date:** October 3, 2018  
**Time:** 8:30am - 12:30pm

A MD SHA-approved ATSSA (American Traffic Safety Services Association) flagger card will be issued upon satisfactory completion of this course. This will be valid for 4 years and is acceptable in several states, including MD, VA and DC. The class instructed by Juan M. Morales, P.E. is presented in PowerPoint© and will include a 25-question multiple choice exam and a flagger demonstration (dexterity test). Students will receive their ATSSA Flagger Certification card the day of the course (upon passing the exam).

**Professional Development Hours:** 4.0.  
**Registration Fees:** \$100 for all participants.

### TO SIGNALIZE OR NOT TO SIGNALIZE: MUTCD SIGNAL WARRANTS

**Location:** MD T2 Center at College Park, Maryland  
**Date:** October 23, 2018  
**Time:** 8:30am - 4:00pm

The To Signalize or Not To Signalize Course instructed by Dane Ismart covers the MUTCD criteria for determining whether the installation of a traffic control signal is justified at a particular location. The following warrants are discussed in detail and include: Eight-Hour Vehicular Volume, Four-Hour Vehicular Volume, Peak Hour, Pedestrian Volumes, School Crossing, Coordinated Signal System, Crash Experience, Roadway Network, Intersection Near a Railroad Grade Crossing. As part of the course, workshop problems will be given to the class participants. The class will be provided intersection field data and will determine if signals are warranted for the sample intersections. After completing the intersection analysis. MUTCD signal analysis software will be demonstrated and the workshop problems will be evaluated based on the microcomputer analysis.

**Professional Development Hours:** 6.0  
**Registration Fees:** \$110 for all participants.

### WINTER MAINTENANCE

**Location:** MD T2 Center at College Park, Maryland  
**Date:** October 25, 2018  
**Time:** 8:30am - 3:30pm

This course covers all aspects of winter operations-planning and organizing, methods of snow and ice control, salt usage, and winter equipment maintenance. Instructed by Ed Stellfox this lesson will include usage of snow maps, formal snow plans, snow plow and salt spreader operation. This course is intended for municipal officials, road commissioners, supervisors, superintendents, public works and maintenance personnel, equipment operators, and city or town managers.

**Professional Development Hours:** 6.0  
**Registration Fees:** \$99 for all participants.

Concluded on page 5

### WORK ZONE DESIGN

**Location:** MD T2 Center at College Park, Maryland

**Date:** November 6-7, 2018

**Time:** 8:30am - 3:30pm

The course instructed by Juan M. Morales, P.E. will give participants knowledge of the entire temporary traffic control (TTC) process: planning, design, review, installation, maintenance, and inspection of temporary traffic control for highway work zones. Issues regarding planning, design, review, and operation of temporary traffic control are covered, including pedestrian accessibility, worker safety, human factors, and legal aspects. The material is based on Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD) and are modified to address Maryland State Highway Administration (SHA) TTC standards and guidelines. The course is aimed at individuals who are responsible for the design, review, or modification of temporary traffic control for work zones adjacent to and within roads and highways. The course will also be of interest to those responsible for installation, operation, and inspection.

**Professional Development Hours:** 12.0.

**Registration Fees:** \$199 MD Local Government and \$210 All Other Registrants.

### FLAGGER CERTIFICATION

**Location:** MD T2 Center at College Park, Maryland

**Date:** November 8, 2018

**Time:** 8:30am - 12:30pm

A MD SHA-approved ATSSA (American Traffic Safety Services Association) flagger card will be issued upon satisfactory completion of this course. This will be valid for 4 years and is acceptable in several states, including MD, VA and DC. The class instructed by Juan M. Morales, P.E. is presented in PowerPoint© and will include a 25-question multiple choice exam and a flagger demonstration (dexterity test). Students will receive their ATSSA Flagger Certification card the day of the course (upon passing the exam).

**Professional Development Hours:** 4.0.

**Registration Fees:** \$100 for all participants.







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## MD T<sup>2</sup> Advisory Board Committee

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**Need training but budget cuts won't allow travel?  
Request a class and we'll bring it to you!**

We understand your training needs and the tremendous budget cuts everyone is dealing with in this economy. By logging on to [www.mdt2center.umd.edu](http://www.mdt2center.umd.edu) and requesting a course that 10 or more of your employees need, we'll bring our course to you. We'll need a room where your employees can learn and either a white board or bare wall for our projector and a pot of coffee for our instructor.

Requesting a course is simple, visit [www.mdt2center.umd.edu](http://www.mdt2center.umd.edu) and fill out our request training form or call Janette Prince at 301.405.6535 and she'll be glad to assist you.