

Technology Transfer Quarterly

Florida's Traffic Engineering and Safety Workforce Training Update



Florida Transportation Technology Transfer Center



Volume 26, Number 2
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Florida Transportation Technology Transfer Center

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Another Way Local Agencies Can Receive Training

Need training? Don't have the budget to pay for the courses, time, and travel expenses of sending all of your staff to the nearest workshop? Here is another way you can tap into T²/CTT Center training! Call and discuss your training needs with our staff and explore the possibility of having one of our instructors come to you! In just a few minutes over the phone, we can provide a cost estimate to include simply the cost of materials (if applicable), the instructor fees, their travel, and modest expenses. With your approval, we could also advertise the course to other interested agencies in your area to help reduce your costs!

Call us now to find out more! 352.273.1685 for T² workshops, or 352.273.1661 for CTT courses. ■■■

Florida Technology Transfer Quarterly Established 1984

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Florida Technology Transfer Quarterly, published by the Florida Transportation Technology Transfer (T²) Center at the University of Florida, Department of Civil and Coastal Engineering, facilitates information exchange relating to roads, bridges, general surface transportation, and safety.

Our programs are sponsored through partnerships between the Florida Department of Transportation and the Federal Highway Administration and include the Local Technical Assistance Program (LTAP), the Product Demonstration Showcase Program (PDS), the Pedestrian/Bicycling Safety Resource Center, and the Center for Transportation Training (CTT) which offers Construction Training Qualification Program (CTQP) courses.

Interested parties may receive this publication at no cost by providing name, agency, address, city, state, zip code, phone and email address to t2@ce.ufl.edu. Newsletter content and accuracy is the exclusive responsibility of the Florida T² Center.

Circulation: 15,882



The Local and Rural Roads Safety Peer-to-Peer Program and the Local Rural Road Owners Manuals Available to Local Transportation and Public Works Agencies

As part of an ongoing effort to reduce fatalities on local and rural roads, the Federal Highway Administration (FHWA) Office of Safety continues to develop tools and resources for these road owners. All local and rural highway practitioners must routinely integrate safety in their projects and programs. In 2009, 56 percent of the fatalities on our nation's roadways occurred on rural roads and the fatality rate was 2.5 times higher than in urban areas. Local and rural road owners should have access to road safety information, knowledge, and resources needed to address safety issues.

Two new resources are available: the Local and Rural Roads Safety Peer-to-Peer Program and the Local Rural Road Owners Manuals.

The Local and Rural Roads Safety Peer to Peer Program (LRR P2P)

The Local and Rural Roads Safety Peer to Peer Program (LRR P2P) is open to public highway agencies seeking to adequately address safety problems on their local and rural road network. Short term assistance can be provided on a variety of topics, ranging from developing a safety program for the local road network to determining locations that need immediate attention and identifying low cost safety improvements that can be installed quickly. Technical assistance through the LRR P2P is provided primarily through expert peers with knowledge in various areas of local and rural road safety issues. Peer assistance can be provided in three formats: technical assistance, training, and peer exchanges.

Benefits an agency can expect through the LRR P2P program include:

- Free and convenient access to professionals experienced with local and rural road safety.
- Expert assistance to recognize local and rural road safety issues and identify solutions.
- Increased understanding of how to improve safety on local and rural roads.

Any public agency is eligible to apply for technical assistance through this program. Assistance requests must be coordinated

with the FHWA Division Office before beginning the application process. Applications can be completed online, by fax, or over the phone. Detailed information on the LRR P2P program including eligibility requirements and an application is available online at safety.fhwa.dot.gov/local_rural/training/p2p/

Local Rural Road Owners Manuals

The three **Local Rural Road Owners Manuals** focus on the local rural transportation practitioner: Road Safety Information Analysis, Roadway Departure Safety, and Intersection Safety. These documents are not substitutes for other documents with similar content but provide concise methodologies in addressing each issue. Each manual provides the local practitioner with procedures and processes to improve local rural road safety and to reduce the potential for future crashes.

The Road Safety Information Analysis manual discusses data types, collection, and analysis and how to use this information to identify locations with safety issues, appropriate countermeasures, and perform proper implementation approaches. The information will acquaint local practitioners – regardless of background or experience level – with the sources, calculations, tools, and methods to make data-supported decisions regarding local rural road safety.

The Intersection and Roadway Departure Safety manual discusses safety issues on local rural roads and presents an understandable step-by-step approach to identifying and addressing intersection and roadway departure safety issues.

The manuals provide a framework for assessing the safety of specific locations and how to determine whether countermeasures should be installed. In each manual, proven countermeasures are presented and a process for the planning and implementation of safety improvements is provided.

The manuals are available for download at safety.fhwa.dot.gov/local_rural/training/. CD ROMs of the manuals are available at no charge from the Report Center at report.center@dot.gov

Please contact Rosemarie Anderson, Transportation Specialist, FHWA Office of Safety, with questions or requests for additional information at Rosemarie.Anderson@dot.gov or call 202.366.5007. ■■■

Go Green with Technology Transfer Quarterly

Start receiving your Technology Transfer Quarterly by email.

Just send an email to us at t2@ce.ufl.edu with your name, organization, and email address. As soon as the newsletter is available, you will receive an email at the address you provided with a link to our E-Newsletter. In the future, you will also be given the opportunity to opt-in to our monthly training updates. Thanks in advance for being green!

To view past issues of Florida's Technology Transfer Quarterly newsletter, visit: t2ctt.ce.ufl.edu/nl_archive ■■■

Mower Operation Safety Training and Tips

Grass, weeds, and brush often limit a driver's line of sight. Controlling roadside vegetation helps keep signs, guardrails, other safety devices, vehicles, bicyclists, and pedestrians visible to the driver in addition to beautifying the roadway. Mowing and other forms of vegetation control help provide good sight distance for drivers and other road users, especially as they approach intersections and interchanges and negotiate curves. Additional trimming may be needed where mowers cannot safely reach, such as around delineators and markers.

Roadside mowing is a year around operation in Florida. It is essential that mower operators know proper techniques and safety. Follow these personal safety and operating tips to help keep your mowing staff safe.

In these economic times, to save money, it is even more essential to time your mowing to growth cycles and weather. In Florida's hot and wet summer weather, vegetation grows faster and requires more mowing than winter weather. However, cutting grasses too short and too often exposes roots and soil to direct sun, causing them to dry out. Mowing in boggy soils, especially after rains, can be hard on equipment and the tractor may bog down.

Operation Safety

- Read the operator's manual thoroughly.
- Be sure the mower has a roll-over protection structure (ROPS).
- Place a Slow Moving Vehicle sign (reflective triangle) on the rear of mower/tractor.
- Use rotating yellow beacons and install yellow flashers on the roll bar or top of the tractor cab. Operate these at all times.
- Install an orange pennant on a whip to show the location of the tractor over the edge of slopes.
- Use the tractor's headlights at all times.
- Use the seat belt at all times.
- Be sure that any required temporary traffic control devices are in place.

A current Maintenance of Traffic qualification may be needed for the person placing the devices. Use Roadwork Ahead signs or signs with similar legends to warn traffic, as well as advance warning vehicles. Signs should not be more than five miles away from the mowing. Even if traffic control devices are not required, you may want to consider placing them to increase safety for both operator and the traveling public. Mowing is a moving operation that typically takes place off the roadway, although sometimes the tractor must use the shoulder or even part of the travel lane as a side unit mows a narrow shoulder. Progress is not always steady in one direction, as a mower must sometimes double back to complete wide areas.

More Tips

- Shut off power before checking any mower unit.
- Check for leaks before leaving the shop.
- Before starting any mower, make sure it is completely lubricated, adjusted, and checked for loose nuts and bolts.
- Check that chain guards, v-belts, drive chains, power take-off shafts and other mower covers are properly installed. Replace broken or missing chain guards and debris guards immediately; do not operate a mower without them. A small rock or

piece of a can or bottle becomes a dangerous projectile when launched by a mower. Using flail type mowers reduces the amount of debris thrown.

- Block the mower before changing or sharpening a blade. Before reinstalling blades, check for cracks or damage that will lead to failure.
- Be alert for signs that indicate areas where mowing and vegetation control are limited for preservation of plants and/or wildlife. Report any "no-mow" areas to your supervisor if you think they are becoming a safety hazard.
- Ballast or weight the tractor properly.
- Where the roadside permits, on slopes that rise or fall 1 foot or less in 2.5 feet of horizontal distance, consider mowing 15 feet beyond the pavement edge. Mow farther if the slope remains gentle enough for you to reach the fore slope and one pass on the back slope of a ditch. Also mow farther to blend the maintained roadside with natural or planted vegetation beyond, such as wildflower beds.
- On slopes that rise or fall more steeply, mow with a side-mounted mower or boom unit or one swath past the point where the slope becomes steeper than 1 foot in 2.5 feet.
- Keep the tractor unit on the gently sloped surface. Operate side-mounted or boom mower units on the uphill side of the tractor to limit the possibility of overturning the tractor.
- Strip grass in a circle around the tree to help avoid mower wounds that can kill trees. The radius of the circle should be 1 to 3 feet depending on the size of the tree. Remove low tree branches that can hit an eye or throw the operator off balance.
- Raise mowers when crossing driveways and roadways.
- Face oncoming traffic as much as possible when mowing around hazard markers, signs and guardrails near the edge of the roadway to provide better visibility to watch for out-of-control vehicles. It also results in less impact if a missile is thrown out from underneath the mower.
- Refuel away from waterways.
- Keep spill kits/materials on hand in case of oil or fuel leaks in the field.

Personal Safety

- Use the canopy on the mower.
- Wear a safety vest.
- Wear hearing protection to protect yourself from noise, and a long sleeved shirt, hard hat, plus safety goggles/sun glasses to protect yourself from branches, flying debris, and the sun.
- Wear leather gloves, boots with hard toes and soles.

Adapted with permission from Mowing for Safety, Safely (Technical Information Sheet #134), Pennsylvania Local Technical Assistance Program. The original article was based on Vegetation Control for Safety, a Guide for Street and Highway Maintenance Personnel, FHWA-RT-90-003, Office of Highway Safety, prepared by the Technology Transfer Center, Iowa State University. ▮

The Florida T² Center offers several classes in mower operation and safety training.

Module 5 of our Mobile Video Training (MVT) is titled Roadside Maintenance Operations and offers training on the following subjects: 5A: Mowing Safety (1 hr); 5B: Roadside Vegetation Control (4 hrs); and 5c: Shoulder & Roadside Ditch Maintenance (2 hrs). Call 352.273.1670 for MVT information.

In addition, we have two live, instructor-led classes: Roadside Maintenance Safety and Tractor Mower Operator Safety (TMOST).

Our 5-hour Roadside Maintenance Safety class provides a classroom safety presentation designed to teach your workers the fundamentals of safely using mowers, traffic control procedures, PPE, sprayers, accident reviews and what could have been done to prevent them, and vegetation control. This is not a hands-on course with equipment, just the OSHA Standards and how to go home at the end of each day in one piece. Call 352.273.1685 for more information.

The Tractor Mower Operator Safety (TMOST) is an AEMF/FEMA-based best safety practices training program covering all makes and models of tractors and mowers. This 8-hour course has both classroom and hands-on training. Call 352.273.1685 for more information. |||

Green Infrastructure Models and Calculators

The US Environmental Protection Agency's Green Infrastructure web page features links to predictive models and calculators to assist in modeling stormwater runoff, water quality impacts from land use changes, benefits of urban tree coverage and pollutant load reductions from Low Impact Development (LID) techniques. The calculators can assist with quantifying costs and

benefits of green infrastructure investments. These tools can be found at the following web link: cfpub.epa.gov/npdes/greeninfrastructure/modelsandcalculators.cfm

Source: US Environmental Protection Agency |||

Local and Rural Road Safety Resources from FHWA

The Federal Highway Administration (FHWA) has made the following local and rural road safety and street maintenance resources available both online and in hard copy:

- Noteworthy Practices: Addressing Safety on Locally-Owned and Maintained Roads - A Domestic Scan
- Implementing the High Risk Rural Roads Program
- Local Roads Safety Resource CD
- Local and Rural Safety Peer-to-Peer Program
- Safety Circuit Rider Best Practices Guide
- Road Safety Tools for Local Agencies
- Rural Highway Safety Clearinghouse
- Roadway Safety Guide
- Maintenance of Drainage Features for Safety
- Maintenance of Signs and Sign Supports
- W-Beam Guardrail Repair
- Vegetation Control for Safety

Find documents online at: safety.fhwa.dot.gov/local_rural/training/ or order from the FHWA Report Center: Report.Center@dot.gov or call 814.239.1160 or fax 814.239.2156. |||

May is National Motorcycle Safety Awareness Month

To help keep motorcyclists safe, all motorists are reminded to share the road safely with motorcycles and to stay alert while driving.

June 20th is Ride Your Motorcycle to Work Day.

FACERS Annual Meeting Agenda

June 22 – 24, 2011
Hilton Bonnet Creek

in conjunction with 2011 FAC Annual Conference & Educational Exposition
Orlando, FL

Wednesday

7:30 AM – 8:00 AM FAC Continental Breakfast***

9:00 AM – 10:00 AM Railroad Agreements and Your Money (Doug Gable/Steve Logan, Polk County)

Break

10:15 AM – 11:15 AM Problem Road Projects (Subsurface and Drainage) and Litigation Experience (Devo Seereeram, DEVO)

11:15 AM – 12:00 PM Exhibit Hall/Networking Opportunities***

12:00 PM – 1:30 PM Lunch (on your own)

1:30 PM – 2:30 PM ITS Adaptive Signal Control and Funding Sources (Eddie Curtis, FHWA, and Fred H. Heery, Sr, FDOT)

2:30 PM – 3:30 PM Geosynthetic Reinforced Soil Integrated Bridge System (Derek Soden, FHWA, and Larry Jones, FDOT)

Break

3:45 PM – 4:30 PM LAP Group Discussion, LAP Community of Practice (Duane Brautigam, FDOT)

4:30 PM – 5:30 PM Maintenance & Operations: The Business Approach (John Newton, Hillsborough County)

Thursday

7:30 AM – 8:00 AM FAC Continental Breakfast***

8:15 AM – 9:15 AM Green Thinking for Black Roads (Matthew LaChance, VHB)

9:15 AM – 10:15 AM “There Goes My Everything”, Eminent Domain & Business Damages (Carlos Kelly, Attorney, Henderson, Franklin, Starnes, & Holt, P.A.)

Break

10:30 AM – 11:30 AM ADA: “Dos and Don’ts”, What to Avoid, Awareness, Pitfalls (Richard Londono, ADAAG Consulting Services)

11:30 AM – 1:00 PM FAC Luncheon or Lunch on your own

1:00 PM – 2:00 PM A Traffic Calming Stalemate: Finding Common Ground (Wilson Lorenz, IBI Group)

2:00 PM – 3:00 PM NPDES MS4, New EPA Policies Making It Tougher on Local Agencies (Tim Kelley, BCI Engineers & Scientists)

Break

3:15 PM – 5:00 PM Round Table Discussion

6:00 PM – 10:00 PM FACERS Social

Friday

8:00 AM – 8:30 AM FAC Continental Breakfast***

8:30 AM – 11:00 AM FACERS Board of Directors & General Membership Meeting

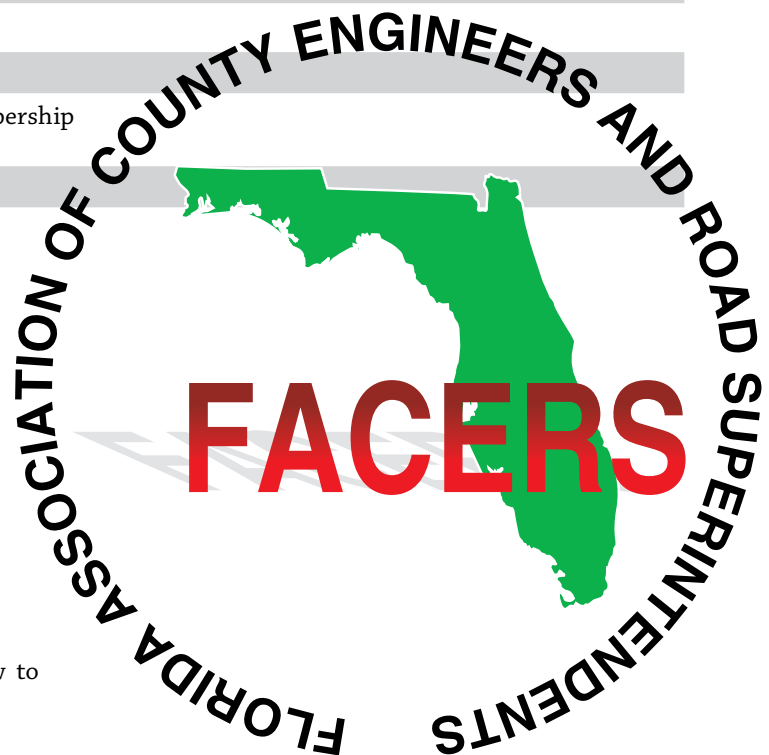
11:00 AM – 11:30 AM FACERS Annual Awards Presentation

*** **Note** – FACERS does not charge a registration fee for its activities; however attendance at any FAC events requires that you are a registered FAC participant.

Attend in person for **free** or tune in for **free!**

Did you know that it is free to attend the Florida Association of County Engineers and Road Superintendents (FACERS) meetings? Can't attend in person? Then attend from your office. The FACERS technical sessions will be broadcast free of charge.

Questions? Email t2@ce.ufl.edu to receive information on how to register (for free).



Materials Available from the Florida Pedestrian and Bicycling Safety Resource Center

Are you looking for pedestrian and bicycling materials to provide at your organization's ped/bike events and educational activities? We have a lot to choose from so your group can help teach safe walking and bicycling practices. Materials are free to qualifying organizations.

Visit www.pedbikesrc.ce.ufl.edu for a list of new items, descriptions, illustrations, and ordering information. Our current inventory includes the following:

Stickers:

- Use Your Head (Dog)
- Use Your Head (Moose)
- Walk Safely!
- Walking School Bus

Passive Reflectors:

- Safe Routes To School (SRTS) Lanyards
- Safe Routes To School (SRTS) Wristbands
- Be Safe, Be Seen Reflective Wristlet
- Reflective Zipper Pull

Crayons and Pencils:

- Safe Routes To School (SRTS) Pencils
- Crayon 4 Pack

Posters:

- Hispanic Pedestrian Poster: Crosswalks and Signals
- Hispanic Pedestrian Poster: Sidewalks
- Hispanic Pedestrian Poster: Intoxicated
- Hispanic Pedestrian Poster: Caution
- Hispanic Bicyclist Poster

CDs:

- Bicycle Safer Journey
- Safer Journey
- Walk Smart & Bike Smart

DVDs:

- I'm Safe - On Wheels
- I'm Safe - Walk With Me
- Pedestrian Law Enforcement Training
- Step to Safety with ASIMO

Publications:

- Bikeability Checklist
- Bicycle Safety: What Every Parent Should Know (English)
- Bicycle Safety: What Every Parent Should Know (Spanish)
- Crosswalk Safety (English)
- Crosswalk Safety (Spanish)
- Easy Steps to Properly Fit a Bicycle Helmet
- Florida Bicycle/Pedestrian Law Enforcement Guide
- How To Fit & Wear Your Bicycle Helmet (English)

- How To Fit & Wear Your Bicycle Helmet (Spanish)
- I'm Safe! Paint Sheet - Bike (English)
- I'm Safe! Paint Sheet - Bike (Spanish)
- I'm Safe! Paint Sheet - Pedestrian (English)
- I'm Safe! Paint Sheet - Pedestrian (Spanish)
- Kids Physical Activity (English)
- Kids Physical Activity (Spanish)
- Know the Rules - Going To & From School (English)
- Know the Rules - Going To & From School (Spanish)
- Neighborhood Safety (English)
- Neighborhood Safety (Spanish)
- Paul's A-Maze-ing Trip
- Peligro en el Camino (Spanish)
- Road Riders Are Drivers
- Safety Fun Activity Book (English)
- Safety Fun Activity Book (Spanish)
- Sprocket Man Comic Book
- Tips for Parents and Other Adults For Teaching Pedestrian Safety to Children (English)
- Tips for Parents and Other Adults For Teaching Pedestrian Safety to Children (Spanish)
- Tips for Walking Safely to School (English)
- Tips for Walking Safely to School (Spanish)

- The Top Ten Rules of Bicycle Safety
- Walk - n - Roll Punch Cards

Books:

- The Guide to Bicycle Rodeos
- How to Develop a Pedestrian Safety Action Plan
- I'm Safe! Walk with Me Activity Sticker Book (English)
- I'm Safe! Walk with Me Activity Sticker Book (Spanish)
- I'm Safe! On my Bike Activity Sticker Book (Spanish)
- Pedestrian Safety Guide for Transit Agencies
- PEDSAFE: Pedestrian Safety Guide and Countermeasure Selection System
- A Resident's Guide for Creating Safe and Walkable Communities
- Walk 'N Roll



May is National Bike Month

Find more at www.bikeleague.org/programs/bikemonth/pdf/national_bike_month_guide.pdf

Rumble Strips and Bicyclist Safety

On March 11, 2010, Secretary LaHood signed the USDOT Policy Statement on Bicycle and Pedestrian Accommodation (www.dot.gov/affairs/2010/bicycle-ped.html), encouraging states, local agencies, and others to provide safe and accessible facilities for walking and bicycling. Unfortunately, concerns continue to be heard from the bicycle community regarding the placement and location of rumble strips.

The Federal Highway Administration (FHWA) Office of Safety's Guidance Memorandum on Consideration and Implementation of Proven Safety Countermeasures (safety.fhwa.dot.gov/policy/mem0071008/) recommends that when shoulder rumble strips are placed on rural two-lane highways, the remaining shoulder width beyond the rumble strip should be four feet or greater, and that this area be paved. Following these recommendations ensures that bicycle traffic is properly accommodated. The FHWA Office of Safety website safety.fhwa.dot.gov/roadway_dept/pavement/rumble_strips/concerns_bike.cfm contains additional information on accommodating bicyclists' concerns with rumble strips. While Technical Advisory (TA) T5040.35, Roadway Shoul-

der Rumble Strips, contains advice on accommodating bicyclists, this 2001 TA is being updated to reflect current proven practices. The new TA will be released soon.

Steps that can be taken now to address bicyclists' concerns include:

- the use of narrower rumble strips or rumble stripes where shoulders are narrow
- the provision of longitudinal gaps to allow bicyclists to safely traverse the rumble strips
- the use of lower profile rumble strips

Perhaps most important is the early involvement of the state's bicycle coordinator when rumble strips are being considered on new roadways that have frequent bicycle use. This partnership can help assure that safety solutions are designed and implemented in ways that are compatible with the needs of that state's vulnerable bicyclist user group.

For more information about bicyclist concerns, contact Dick Schaffer in the FHWA Office of Safety at dick.schaffer@dot.gov or 202-366-2176. ■■■

AARP Workforce Development Resources

AARP has developed two free modules of materials (PowerPoint presentations and handouts) intended to help agencies improve training for a multi-generational workforce and retain talented employees. Visit the website for additional information: www.aarp.org/work/employee-benefits/info-10-2010/management-training-modules.html

The AARP Workforce Management Training Modules are designed to be studied independently or to be led by a facilitator. The modules will increase your management team's competency in addressing the many sides of recruiting, managing, and retaining a multi-generational workforce. The two modules, available as downloadable curricula, can be customized for your workplace training needs and modified to incorporate specific information for your organization or industry.

"Managing the Generations at Work" focuses on the implications of the new workforce that spans four generations. If organizations can manage this rich mix of generations successfully, they can build a more creative, collaborative, and productive workforce.

"Recruiting Experienced Talent: Strategies for Changing Economic Times" examines new business realities emerging because

of the uncertain economy. Change is happening at an extraordinary rate as demographic realities lead to labor shortages and skill gaps emerge; therefore, finding and keeping top talent is a real challenge that can be met with only a fresh perspective on experienced workers.

Uncertain times push the economy to center stage. New business realities are emerging. Change happens almost overnight. Simply put, if mature workers retire en masse, there are not enough young skilled workers to replace them. In addition, companies now employ a multi-generational workforce that is creating new challenges and rewards.

Smart employers realize the impact of a multi-generational workforce on employee engagement, recruitment, and retention, as well as customer satisfaction and, ultimately, the organization's bottom line.

AARP's Workforce Management Training Modules will help you learn how to attract the best talent, fill critical skills shortages, strengthen your employment brand, and create a workplace that engages all workers.

Source: AARP ■■■

Does Your Agency Qualify for Recognition? Walk Friendly Communities

Walk Friendly Communities (WFC) is a national recognition program developed to encourage towns and cities across the U.S. to establish or recommit to a high standard for the support of safer walking environments. The WFC program recognizes communities that are working to improve a wide range of conditions related to pedestrian safety, mobility, access, and comfort. Applications open on May 1 and close on June 15, 2011. Visit www.walkfriendly.org to access a printable application and to learn more about the program. ■■■

10th International Conference on Low-Volume Roads

Low-Volume Roads: Our Connection to the World

July 24-27, 2011 Hilton at Lake Buena Vista Resort Orlando, Florida

Plan to Attend

To register or access more information, visit: www.trb.org/LowVolumeRoadsConference/LVR10.aspx

Pre Conference Workshops

- Low-Volume Roads and Earthquakes: the Experience in Chile, Haiti, and New Zealand
- Simple, Low Cost Soil Testing: How to Do It and How to Use the Results
- Low-Volume Roads: Best Practices and Gravel Management
- Road Safety Audits: Working Together to Make Your Roads Safer

Conference Technical Presentations

- Cementitious Stabilization
- Hot-Mix Asphalt
- Pavement Management Systems
- What's New in Low-Volume Road Pavement Design and Performance?
- Geogrids
- Pavement Management Case Histories
- Potpourri of New Tools for Enhancing Low-Volume Road Design
- Erosion and Sediment Control for Native and Aggregate Surfaced Roads Hot-Mix Asphalt, Warm-Mix Asphalt, and Chip Seals
- Planning, Financing, and Economics of Low-Volume Roads
- Developments in Non-Traditional Stabilizers
- Effects of Roadway Geometry on Low-Volume Road Safety Materials
- Current Issues Facing Low-Volume Road Managers
- Full-Depth Reclamation and Recycled Pavement Materials
- Speed Characteristics and Management on Low-Volume Roads
- Geotechnical Engineering
- Rural Roads Maintenance and Management
- Safety Assessment Tools for Low-Volume Roads
- Pavement Assessment
- Pavement Design
- Pavement Materials
- Use of Chip Seals and Thin Pavement for Low-Volume Roads

Conference Field Trip Options

- Hubbard Construction Company Asphalt Plant
- Stormwater Management Academy at the University of Central Florida
- Road Safety Audit Site Visit

Post Conference Field Trip

- Florida Department of Transportation (FDOT)
- State Materials Office (SMO), Gainesville, Florida

Committee Meetings

- Low-Volume Roads Committee (AFB30)
- Rural Roads Safety Policy, Programming, and Implementation
- Joint Subcommittee (ANB10-AFB30)

Hosts

Transportation Research Board (TRB)
 Florida Transportation Technology Transfer (T²) Center,
 University of Florida
 Florida Association of County Engineers and Road Superintendents (FACERS)
 International Union of Forest Research Organizations
 University of Naples Federico II Italy

Sponsors

Bureau of Indian Affairs, U.S. Department of the Interior
 Federal Highway Administration, U.S. Department of Transportation
 Fish and Wildlife Service, U.S. Department of the Interior
 Forest Service, U.S. Department of Agriculture
 U.S. Army Corps of Engineers, Engineer Research and Development Center
 U.S. Environmental Protection Agency

Exhibitors

Midwest Industrial Supply, Inc.
 Pavemetrics Systems, Inc.
 Reinforced Aggregates Company
 Tensar International Corp.



**LOW-VOLUME ROADS:
 OUR CONNECTION TO THE WORLD**

New at the T² Media Center

Fax to 352.392.3224

Our Media Center offers more than 7,000 publications, 1,000 videos, and 175 CDs for loan. To request any of the items below, please mark the items you want to borrow, fill out the form below, and fax to 352.392.3224. Descriptions can be found on our website: t2ctt.ce.ufl.edu and browse the electronic catalog. Call 352.392.9537 EXT. 1544 for assistance.

New Publications

- | | | |
|--|---|--|
| <input type="checkbox"/> Traffic Incident Management Handbook
P8456.01 USDOT | <input type="checkbox"/> Implementable Strategies for Shifting to Direct Usage-Based Charges for Transportation Funding
P8468.01 NCHRP | <input type="checkbox"/> Advanced LED Warning Signs for Rural Intersections Powered by Renewable Energy
P8479.01 MN DOT |
| <input type="checkbox"/> Modelling Dynamic Dilemma Zones and its Applications: A Paper Submitted to Ohio Transportation Consortium for 2009 OTC Student Paper Competition
P8457.01 ZHIXIA LI | <input type="checkbox"/> Evaluating Safety and Operations of High Speed Signalized Intersections
P8469.01 ODOT | <input type="checkbox"/> Development and Field Demonstration of DSRC-Based V2I Traffic Information System for the Work Zone
P8480.01 ITS |
| <input type="checkbox"/> Getting Students Active through Safe Routes to School
P8458.01 SAFE ROUTES TO SCHOOL | <input type="checkbox"/> Asset Management and Management of Highway Performance
P8470.01 FHWA | <input type="checkbox"/> Older Driver Program Five-Year Strategic Plan 2012-2017
P8481.01 USDOT |
| <input type="checkbox"/> Implementing Safe Routes to School in Low-Income Schools and Communities
P8459.01 SAFE ROUTES TO SCHOOL | <input type="checkbox"/> Research Results Digest 345 - Alternate Strategies for Safety Improvement Investments
P8471.01 NCHRP | <input type="checkbox"/> Bridge Approach Slabs for Missouri DOT: Looking at Alternative and Cost Efficient Approaches
P8482.01 MO DOT |
| <input type="checkbox"/> Curbing Distracted Driving: 2010 Survey of State Safety Programs
P8460.01 GHSA | <input type="checkbox"/> Cost Benefit Analysis of Including Microsurfacing in Pavement Treatment Strategies and Cycle Maintenance
P8472.01 PDOT | <input type="checkbox"/> Promoting Centerline Rumble Strips to Increase Rural, Two-Lane Highway Safety
P8483.01 KS DOT |
| <input type="checkbox"/> The National Bicycling and Walking Study: 15-Year Report
P8461.01 USDOT | <input type="checkbox"/> Trailing Pedestrian Countdown Timers at Traffic Signals
P8473.01 NZ TRANSPORT AGENCY | <input type="checkbox"/> Pavement Markings and Safety
P8484.01 ISU |
| <input type="checkbox"/> Innovation in Vertical and Horizontal Construction
P8462.01 USDOT | <input type="checkbox"/> Solutions: Reducing Greenhouse Gas Emissions from U.S. Transportation
P8474.01 PEW CENTER ON GLOBAL CLIMATE CHANGE | <input type="checkbox"/> Guide for Analysis of Corridor Management Policies and Practices
P8485.01 FDOT |
| <input type="checkbox"/> Traffic Analysis Toolbox Volume X
P8463.01 USDOT | <input type="checkbox"/> Efficient Use of Highway Capacity Summary
P8475.01 FHWA | <input type="checkbox"/> Walkable Communities Program: Borough of Waynesboro, Franklin County, PA
P8486.01 PA DOT |
| <input type="checkbox"/> Guide for Review and Assessment of Local Mobility Plans
P8464.01 CENTER FOR URBAN TRANSPORTATION RESEARCH | <input type="checkbox"/> GAO Report to Congressional Committees: Rail Safety
P8476.01 GAO | <input type="checkbox"/> Spacial Orientation and Navigation in Elderly Drivers
P8487.01 UNIV OF MN |
| <input type="checkbox"/> Restructuring the Commercial Strip
P8465.01 EPA | <input type="checkbox"/> Impacts of Low-Speed Vehicles on Transportation Infrastructure and Safety
P8477.01 OTREC | <input type="checkbox"/> 2010 Traffic Safety Culture Index
P8488.01 AAA |
| <input type="checkbox"/> The ACS Statistical Analyzer
P8466.01 NATIONAL CENTER FOR TRANSIT RESEARCH | <input type="checkbox"/> Safer Vulnerable Road Users: Pedestrians, Bicyclists, Motorcyclists, and Older Users
P8478.01 USDOT | <input type="checkbox"/> Effectiveness of Chip Sealing and Micro Surfacing on Pavement Serviceability and Life
P8489.01 FHWA |
| <input type="checkbox"/> Handbook of Emergency Management for State-Level Transportation Agencies
P8467.01 MINETA TRANS. INSTITUTE | | <input type="checkbox"/> Measuring What Matters: Access to Destinations (Research Summary #2)
P8490.01 UNIV OF MN |

Contact information

Name _____ Agency _____

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| <input type="checkbox"/> City | <input type="checkbox"/> Federal | Phone _____ |
| <input type="checkbox"/> County | <input type="checkbox"/> University | Email _____ |
| <input type="checkbox"/> State | <input type="checkbox"/> Other | |

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|--|--|--|
| <input type="checkbox"/> Speed Zoning for Highways, Roads & Streets in Florida
P8491.01 FDOT | <input type="checkbox"/> Advancing Metropolitan Planning for Operations: The Building Blocks of a Model Transportation Plan Incorporating Operations
P8502.01 FHWA | <input type="checkbox"/> Travel Forecasting 2010 Volume 1
TRB2175.01 TRB |
| <input type="checkbox"/> Estimating the Employment Impacts of Pedestrian, Bicycle, and Road Infrastructure Case Study: Baltimore
P8492.01 UNIV OF MA | <input type="checkbox"/> Crash Factors in Intersection-Related Crashes: An On-Scene Perspective
P8503.01 NHTSA | <input type="checkbox"/> Travel Forecasting 2010 Volume 2
TRB2176.01 TRB |
| <input type="checkbox"/> Accessible Pedestrian Signals: A Guide to Best Practices (Workshop Edition 2010)
P8493.01 NCHRP | <input type="checkbox"/> Transit 2010 Volume 1
TRB2143.01 TRB | <input type="checkbox"/> Aviation 2010
TRB2177.01 TRB |
| <input type="checkbox"/> Research to Explore Perceptions and Experiences of Bikeability Training Amongst Parents and Children
P8494.01 IPSOS MORI | <input type="checkbox"/> Transit 2010 Volume 2
TRB2144.01 TRB | <input type="checkbox"/> Freeway Operations; Regional Systems Management and Operations; Managed Lanes 2010
TRB2178.01 TRB |
| <input type="checkbox"/> Guidelines for Conducting Retroreflective Measurements of Traffic Signs
P8495.01 FHWA | <input type="checkbox"/> Construction 2010 Volume 2
TRB2152.01 TRB | <input type="checkbox"/> Bituminous Materials and Mixtures Volume 1
TRB2179.01 TRB |
| <input type="checkbox"/> Development of Algorithms for Travel Time-Based Signal Timing, Phase 1 - A Hybrid Extended Kalman Filtering Approach for Traffic Density Estimation along Signalized Arterials.
P8496.01 UNIV OF MN | <input type="checkbox"/> Pavement Management 2010 Volume 1
TRB2153.01 TRB | <input type="checkbox"/> Bituminous Materials and Mixtures Volume 2
TRB2180.01 TRB |
| <input type="checkbox"/> National Cycling Strategy 2011 - 2016 (Australia)
P8497.01 AUSTRALIAN BICYCLE COUNCIL | <input type="checkbox"/> Pavement Management 2010 Volume 2
TRB2154.01 TRB | <input type="checkbox"/> Bituminous Materials and Mixtures Volume 3
TRB2181.01 TRB |
| <input type="checkbox"/> Field Test on Visibility at Cycle Crossings at Night
P8498.01 VTI (SWEDEN) | <input type="checkbox"/> Social, Environmental, and Economic Sustainability
TRB2163.01 TRB | <input type="checkbox"/> Highway Safety: Behavior, Management, and Roundabouts
TRB2182.01 TRB |
| <input type="checkbox"/> Asleep at the Wheel: The Prevalence and Impact of Drowsy Driving
P8499.01 AAA | <input type="checkbox"/> Concrete Materials 2010
TRB2164.01 TRB | <input type="checkbox"/> Information Systems, Geographic Information Systems, and Advanced Computing 2010
TRB2183.01 TRB |
| <input type="checkbox"/> The Economic Cost of Traffic Congestion in Florida
P8500.01 UF | <input type="checkbox"/> Statistical Methods and Visualization
TRB2165.01 TRB | <input type="checkbox"/> Human Performance, Simulation, and User Information Research
TRB2185.01 TRB |
| <input type="checkbox"/> Protecting Teen Drivers: A Guidebook for State Highway Safety Offices
P8501.01 GHSA | <input type="checkbox"/> Marine Transportation and Port Operations 2010
TRB2166.01 TRB | <input type="checkbox"/> Soil Mechanics 2010
TRB2186.01 TRB |
| | <input type="checkbox"/> Freight Transportation Modeling, Planning, and Logistics
TRB2168.01 TRB | <input type="checkbox"/> Economics, Demand Management, and Parking Policy
TRB2187.01 TRB |
| | <input type="checkbox"/> Geology and Properties of Earth Materials 2010
TRB2170.01 TRB | <input type="checkbox"/> Intelligent Transportation Systems and Vehicle-Highway Automation
TRB2189.01 TRB |
| | <input type="checkbox"/> Operational Effects of Geometrics and Access Management 2010
TRB2171.01 TRB | <input type="checkbox"/> Bicycles 2010
TRB2190.01 TRB |
| | <input type="checkbox"/> Structures 2010
TRB2172.01 TRB | <input type="checkbox"/> Highways and Climate Change: Carbon Sequestration Pilot Program
P8454.01 USDOT |
| | <input type="checkbox"/> Highway Capacity and Quality of Service 2010
TRB2173.01 TRB | <input type="checkbox"/> Beyond the Short Term
P8455.01 USDOT |
| | <input type="checkbox"/> Planning 2010
TRB2174.01 TRB | |

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Giveaways - CDs

- Safety Benefits of Walkways, Sidewalks, and Paved Shoulders
- Safety Benefits of Raised Medians and Pedestrian Refuge Areas
- A Residents' Guide for Creating Safe and Walkable Communities

FDOT Summary of Final Reports—New Topics Available

Access the FDOT website www.dot.state.fl.us/research-center/ for these summaries. Go to the Research Center Topics dropdown menu in the lower left corner of the page and click on Completed Research. Summaries are listed by category.

Maintenance

BDK83 977-01 Enhancement of the FDOT's Project Level and Network Level Bridge Management Analysis Tool

Planning

BDK84 977-02 Guide for Review and Assessment of Local Mobility Plans: A Proposed Practice

Public Transportation

BDK85 977-04 A Guidebook for Using Automatic Passenger Counter Data for National Transit Database (NTD) Reporting

Roadway Design

PR-4575974 Development of Methods for Improving Levels I and II MET/Ocean Parameter Predictions

Safety

BDK84 977-01 Development of an Interface between FDOT's Crash Analysis Reporting System and the Safety Analyst

Structures

BDK83 977-03 Investigation of Impact Factors for FDOT Bridges

FHWA Resource Center Offers Free Highway Safety Manual Webinar Series

The Federal Highway Administration (FHWA) has recorded their Highway Safety Manual (HSM) webinar series. Session titles are:

- HSM Introduction and Overview
- Application to Two-Lane Rural Roads
- Application to Urban/Suburban Intersections
- Project Identification
- Application to Rural Two-Lane Intersections
- Application to Rural Multilane Highways
- Applications to Urban/Suburban Roads
- Applications to Rural Multilane Intersections
- HSM and Pedestrians
- Applications to Horizontal Curves
- HSM Relationship to Roadway Departure Crashes
- Applications to High Safety Improvement Program (HSIP)

To gain direct access to these titles, go to www.highwaysafety-manual.org/Pages/FHWAResourceCenterHSMWebinarSeries.aspx

Looking for Roadway Safety Information?

Here are some Federal Highway Administration (FHWA) websites that will help.

FHWA Safety Office

safety.fhwa.dot.gov

Road Safety Audits

safety.fhwa.dot.gov/rsa

Intersection Safety

safety.fhwa.dot.gov/intersection

Older Road Users

safety.fhwa.dot.gov/older_users

Work Zone Safety Clearinghouse

www.workzonesafety.org

Pedestrian and Bicycle Safety

safety.fhwa.dot.gov/ped_bike

Retroreflectivity

safety.fhwa.dot.gov/roadway_dept/night_visib/policy_guide/fhwasao8001

Free Professional Organization Membership with FACERS

The Florida Association of County Engineers and Road Superintendents (FACERS) is offering a one-year free membership to new members. Categories include both county and city public works and transportation professionals. Experience the benefits of a FACERS membership. Visit facers.org to apply today! ■■■

Upcoming Workshops *through December 2011*

For a list of all courses or to register, visit our website at t2ctt.ce.ufl.edu or for T² workshops, email t2workshops@ce.ufl.edu or call 352.273.1670 and for CTT and CTQP courses, email ctt@ce.ufl.edu or call 352.273.1669. We look forward to serving you.

Advanced Maintenance of Traffic

June 8–10, 2011	Pompano Beach
June 11–12, 2011	Clearwater
June 15–17, 2011	Gainesville
June 21–23, 2011	Tallahassee
June 21–23, 2011	Tampa
June 22–24, 2011	Cape Coral
July 20–22, 2011	Orlando
August 3–5, 2011	Tampa
August 17–19, 2011	Pompano Beach
August 24–26, 2011	Cape Coral
September 14–16, 2011	Orlando
September 21–23, 2011	Gainesville
October 19–21, 2011	Pompano Beach
October 25–27, 2011	Tampa
October 26–28, 2011	Cape Coral
November 16–18, 2011	Gainesville
November 16–18, 2011	Orlando
December 7–9, 2011	Pompano Beach
December 14–16, 2011	Tampa
December 17–18, 2011	Orlando

Advanced Maintenance of Traffic - Refresher

June 7, 2011	Pompano Beach
June 14, 2011	Gainesville
June 20, 2011	Tallahassee
June 20, 2011	Tampa
June 21, 2011	Cape Coral
July 19, 2011	Orlando
August 2, 2011	Tampa
August 16, 2011	Pompano Beach
August 23, 2011	Cape Coral
September 13, 2011	Orlando
September 20, 2011	Gainesville
October 18, 2011	Pompano Beach
October 24, 2011	Tampa
October 25, 2011	Cape Coral
November 15, 2011	Gainesville
November 15, 2011	Orlando
December 6, 2011	Pompano Beach
December 13, 2011	Tampa

Asphalt Combo - Inspection and Maintenance

May 25, 2011 Pompano Beach

Asphalt Mix Design **REDUCED FEE!**

June 27–30, 2011 Gainesville
October 18–21, 2011 Gainesville

Asphalt Paving Level 1

May 23, 2011 Fort Myers
July 5, 2011 Orlando
August 2, 2011 Miami
August 30, 2011 Tampa
October 4, 2011 Davie
October 25, 2011 Chipley
November 1, 2011 DeLand
November 7, 2011 Gainesville

Asphalt Paving Level 2

REDUCED FEE!
May 24–26, 2011 Fort Myers
July 6–8, 2011 Orlando
August 3–5, 2011 Miami
August 31 – September 2, 2011 Tampa
October 5–7, 2011 Davie
October 26–28, 2011 Chipley
November 2–4, 2011 DeLand
November 8–10, 2011 Gainesville

Asphalt Plant Level 1 **REDUCED FEE!**

May 18–20, 2011 Gainesville
June 15–17, 2011 Gainesville
July 19–21, 2011 Miami
August 3–5, 2011 Gainesville
September 7–9, 2011 Gainesville
October 4–6, 2011 Miami
November 8–10, 2011 Gainesville

Asphalt Plant Level 2 **REDUCED FEE!**

August 10–12, 2011 Lakeland
October 5–7, 2011 Gainesville

Bucket Truck Safety/Hands-on

May 25, 2011 Naples
November 9, 2011 Pompano Beach

Chainsaw Safety in Disaster Recovery

June 15, 2011 Pompano Beach
July 20, 2011 Port Charlotte

Chainsaw Safety/Hands-on

June 8, 2011 Gainesville

Concrete Batch Plant Operator

July 8, 2011 Chipley
September 6, 2011 Gainesville

Concrete Transportation Construction Inspection (ACI)

June 1–3, 2011 Orlando

CTQP Proficiency Exam Only (No books provided)

June 3, 2011 Gainesville

Continued on page 14

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Upcoming Workshops *continued*

CTQP Written Exam Only (No books provided) REDUCED FEES!	October 5, 2011	Chipley	Earthwork Construction Inspection Level 2 REDUCED FEE!	
May 18, 2011	Sarasota	Jacksonville	June 9–10, 2011	Orlando
May 23, 2011	Fort Myers	Pompano Beach	July 7–8, 2011	Gainesville
May 26, 2011	Fort Myers	Tampa	July 28–29, 2011	Miami
June 1, 2011	Chipley	Miami	September 15–16, 2011	Jacksonville
June 1, 2011	Jacksonville	Davie	October 13–14, 2011	Tampa
June 1, 2011	Pompano Beach	Tampa	November 17–18, 2011	Gainesville
June 1, 2011	Tampa	Orlando	December 8–9, 2011	Gainesville
June 8, 2011	Orlando	Orlando		
June 10, 2011	Orlando	Chipley	FDOT Concrete Field Inspector Specification REDUCED FEE!	
June 22, 2011	Davie	Chipley	June 21–22, 2011	Davie
June 23, 2011	Davie	Chipley	July 25–27, 2011	Gainesville
July 5, 2011	Orlando	DeLand	August 22–24, 2011	Jacksonville
July 6, 2011	Chipley	Chipley	September 14–16, 2011	Chipley
July 6, 2011	Davie	Jacksonville	September 19–21, 2011	Fort Myers
July 6, 2011	Jacksonville	Pompano Beach	October 17–19, 2011	Orlando
July 6, 2011	Pompano Beach	Tampa	November 15–17, 2011	Gainesville
July 6, 2011	Tampa	Davie		
July 8, 2011	Chipley	DeLand	Final Estimates Level 1	
July 8, 2011	Davie	Davie	July 6, 2011	Davie
July 8, 2011	Orlando	Orlando	September 14, 2011	Gainesville
July 21, 2011	Miami	Chipley	September 28, 2011	Tampa
July 27, 2011	Miami	Jacksonville	November 8, 2011	Davie
July 29, 2011	Miami	Pompano Beach	November 14, 2011	Gainesville
August 2, 2011	Miami	Tampa		
August 3, 2011	Chipley		Final Estimates Level 2	
August 3, 2011	Jacksonville		July 7–8, 2011	Davie
August 3, 2011	Pompano Beach		September 15–16, 2011	Gainesville
August 3, 2011	Tampa		September 29–30, 2011	Tampa
August 4, 2011	Orlando		November 9–10, 2011	Davie
August 5, 2011	Miami		November 15–16, 2011	Gainesville
August 8, 2011	DeLand			
August 12, 2011	Lakeland		Florida Greenbook	
August 24, 2011	Jacksonville		July 27–28, 2011	Largo
August 26, 2011	Jacksonville			
August 26, 2011	Orlando		Forklift-Powered Industrial Truck - Safety/Hands-on	
August 30, 2011	Tampa		July 13, 2011	Pompano Beach
September 2, 2011	Tampa			
September 7, 2011	Chipley		Inspecting Municipal Properties	
September 7, 2011	Jacksonville		August 24, 2011	Naples
September 7, 2011	Pompano Beach			
September 7, 2011	Tampa		Integrating Pavement Preservation Practices and Pavement Management	
September 14, 2011	Jacksonville		May 24, 2011	Gainesville
September 16, 2011	Chipley			
September 16, 2011	Jacksonville			
September 21, 2011	Fort Myers			
September 23, 2011	Fort Myers			
September 28, 2011	Tampa			
September 30, 2011	Tampa			
October 4, 2011	Davie			

through December 2011

Intermediate Maintenance of Traffic

May 18-19, 2011	Cape Coral
May 18-19, 2011	Gainesville
May 18-19, 2011	Orlando
July 7-8, 2011	Tampa
July 12-13, 2011	Naples
July 20-21, 2011	Gainesville
July 27-28, 2011	Port Charlotte
August 16-17, 2011	Naples
August 24-25, 2011	Orlando
August 30-31, 2011	Cape Coral
September 20-21, 2011	Tallahassee
September 28-29, 2011	Tampa
October 19-20, 2011	Gainesville
October 19-20, 2011	Orlando
November 2-3, 2011	Tampa
November 15-16, 2011	Naples
November 16-17, 2011	Cape Coral
December 7-8, 2011	Orlando

Intermediate Maintenance of Traffic - Refresher

May 17, 2011	Cape Coral
May 17, 2011	Gainesville
May 17, 2011	Orlando
June 17, 2011	Bradenton
July 6, 2011	Tampa
July 11, 2011	Naples
July 19, 2011	Gainesville
July 26, 2011	Port Charlotte
August 15, 2011	Naples
August 23, 2011	Orlando
August 29, 2011	Cape Coral
September 19, 2011	Tallahassee
September 27, 2011	Tampa
October 18, 2011	Gainesville
October 18, 2011	Orlando
November 1, 2011	Tampa
November 14, 2011	Naples
November 15, 2011	Cape Coral
December 6, 2011	Orlando

Limerock Bearing Ratio (LBR)

Technician REDUCED FEE!

June 23-24, 2011	Gainesville
July 21-22, 2011	Gainesville

Long Term Pavement Performance (LTPP) - Pavement Distress Identification

October 5-7, 2011	Pompano Beach
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Mobile Equipment and Internal Work Zone Safety

November 30, 2011	Port Charlotte
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Nuclear Density Gauge Safety and HazMat

September 12, 2011	Jacksonville
December 5, 2011	Gainesville

Pile Driving Inspection

June 6-8, 2011	Gainesville
August 2-4, 2011	Orlando
October 11-13, 2011	Gainesville
November 30 - December 2, 2011	Orlando

Pilot/Escort Flagging

May 24, 2011	Fort Myers
June 17, 2011	Tallahassee
June 21, 2011	Orlando
July 7, 2011	Gainesville
July 18, 2011	Saint Petersburg
August 9, 2011	Gainesville
August 16, 2011	Fort Myers
September 13, 2011	Orlando
November 1, 2011	Gainesville
November 15, 2011	Fort Myers
December 6, 2011	Orlando

Pilot/Escort Flagging Refresher

May 17, 2011	Gainesville
June 14, 2011	Gainesville
July 12, 2011	Gainesville
August 16, 2011	Gainesville
September 13, 2011	Gainesville
October 18, 2011	Gainesville
November 15, 2011	Gainesville
December 13, 2011	Gainesville

Plans Reading Fundamentals

September 14, 2011	Pompano Beach
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Qualified Aggregate Sampler

June 23, 2011	Davie
August 8, 2011	DeLand
October 24, 2011	Gainesville

Quality Control Manager

REDUCED FEE!

July 28-29, 2011	Gainesville
August 25-26, 2011	Jacksonville
September 22-23, 2011	Fort Myers
October 20-21, 2011	Orlando

Retroreflectivity - Conducting Traffic Sign Inspections

May 16, 2011	Lake City
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Roadside Maintenance Safety

September 28, 2011	Port Charlotte
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Safety Edge

June 6, 2011	Ocala
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Successful Supervision in Public Works

August 12, 2011	Pompano Beach
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Upcoming Workshops

For the dates and locations of these upcoming workshops, see page 13–15.

Advanced Maintenance of Traffic	Drilled Shaft Inspection REDUCED FEE!	Long Term Pavement Performance (LTPP) - Pavement Distress Identification
Advanced Maintenance of Traffic - Refresher	Earthwork Construction Inspection Level 1	Mobile Equipment and Internal Work Zone Safety
Asphalt Combo - Inspection and Maintenance	Earthwork Construction Inspection Level 2 REDUCED FEE!	Nuclear Density Gauge Safety and HazMat
Asphalt Mix Design REDUCED FEE!	FDOT Concrete Field Inspector Specification REDUCED FEE!	Pile Driving Inspection
Asphalt Paving Level 1	Final Estimates Level 1	Pilot/Escort Flagging
Asphalt Paving Level 2 REDUCED FEE!	Final Estimates Level 2	Pilot/Escort Flagging Refresher
Asphalt Plant Level 1 REDUCED FEE!	Florida Greenbook	Plans Reading Fundamentals
Asphalt Plant Level 2 REDUCED FEE!	Forklift-Powered Industrial Truck - Safety/ Hands-on	Qualified Aggregate Sampler
Bucket Truck Safety/Hands-on	Inspecting Municipal Properties	Quality Control Manager REDUCED FEE!
Chainsaw Safety in Disaster Recovery	Integrating Pavement Preservation Practices and Pavement Management	Retroreflectivity - Conducting Traffic Sign Inspections
Chainsaw Safety/Hands-on	Intermediate Maintenance of Traffic	Roadside Maintenance Safety
Concrete Batch Plant Operator	Intermediate Maintenance of Traffic - Refresher	Safety Edge
Concrete Transportation Construction Inspection (ACI)	Limerock Bearing Ratio (LBR) Technician REDUCED FEE!	Successful Supervision in Public Works
CTQP Proficiency Exam Only (No books provided)		
CTQP Written Exam Only (No books provided) REDUCED FEES!		