



# T<sup>2</sup> Technology Transfer Quarterly

Florida's Traffic Engineering and Safety Workforce Training Update

A University of Florida Publication

Volume 24, Number 3

August 2009

Installation of McCulloch Road groundwater interceptor in Orange County.  
See award winner story page 5.



## Coming soon!

Here is a sneak preview of our new Florida T<sup>2</sup> Center logo which will officially debut with our November issue of the Technology Transfer Quarterly.



## Contents

3	<i>Road Safety Audit Events</i>	8	<i>Win a Free T<sup>2</sup> Workshop Voucher</i>
3	<i>Local Roads Matter! Campaign</i>	8	<i>CTT Exclusive Training</i>
4-5	<i>FACERS Award Winners</i>	8	<i>Roundabouts Workshop</i>
6	<i>Remembering Martha Dobson</i>		



## Technology Transfer Quarterly

Established in 1984

Voice: 352.392.2371

Workshop Registration .....EXT. 31675

Workshop Development .....EXT. 31685

Traffic Safety Courses .....EXT. 31685

Pilot/Escort Program .....EXT. 31675

CTT and CTQP Courses .....EXT. 31669

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**Florida Technology Transfer Quarterly**, published by the Florida Transportation Technology Transfer (T<sup>2</sup>) 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), Safety Circuit Rider Program (SCR), the Product Demonstration Showcase Program (PDS), and the Pedestrian/Bicycling Safety Resource Center.

Interested parties may receive this publication at no cost by completing and returning the FaxBack form on the inside back cover. Newsletter content and accuracy is the exclusive responsibility of the Florida T<sup>2</sup> Center.

Circulation: 17,832



**UF** UNIVERSITY of  
**FLORIDA**

# Florida T<sup>2</sup> Center Celebrates 25 Years of Service

Thank **you**, transportation and public works agencies!

In the fall of 1984, the University of Florida joined an effort established in 1982 by the Federal Highway Administration (FHWA) to provide training, technical assistance and other services to transportation and public works personnel. The national program, now known as the Local Technical Assistance Program (LTAP), also includes centers that serve tribal governments (Tribal Technical Assistance Programs, or TTAP). There is an LTAP Center in each state, one in Puerto Rico and seven TTAP Centers. In all, the 58 Centers that comprise LTAP/TTAP serve 38,000 agencies responsible for over three million miles of roads and over 300,000 bridges in the United States. The LTAP grant is funded 50/50 by the FHWA and each state department of transportation.

The mission of LTAP/TTAP is to foster a safe, efficient, and environmentally sound surface transportation system by improving skills and increasing knowledge of the transportation workforce and decision makers.

Our goal remains to provide low cost and high quality training and technical assistance. A national Benefits Study showed that centers yield a return on invested funding of \$8.53:1. Stretching funds is critical to our success. To reach diverse audiences efficiently, LTAP and TTAP Centers rely on our ability to leverage and combine resources. Formal partnering agreements have been established between the National LTAP Association (NLTA), the American Association of State Highway and Transportation Officials (AASHTO), the National Association of County Engineers (NACE), and the American Public Works Association (APWA). In addition, LTAP/TTAP Centers have access to all National Highway Institute training materials. These partnerships further strengthen the value of services provided to our clients.

Current programs, projects, and centers underneath our Florida T<sup>2</sup> Center umbrella are LTAP, the Center for Transportation Training (CTT), the Safety Circuit Rider Program, the Product Demonstration Showcase Program, Pilot/Escort Flagging, the Pedestrian and Bicycling Safety Resource Center, our Mobile Video Training, and the Technology Transfer Support project. Integrating these efforts allows for more efficient delivery of services.

As LTAP/TTAP successes grew nationally, FHWA has assisted other countries in establishing similar centers. The Florida T<sup>2</sup> Center has hosted four international symposiums for FHWA that brought together center personnel to discuss the business of successfully providing services. One symposium drew representatives from 58 nations, all 50 U.S. states, and Puerto Rico.

Much of the success of the centers can be attributed to the vast communication network and the sharing of resources, such as training materials and instructors. Besides having access to all 58 centers on a daily basis, resources also include a national clearinghouse and access to FHWA Resource Center personnel. LTAP/TTAP Center personnel meet annually as regions and as a national group along with representatives from these resource offices twice a year, once in conjunction with January's Transportation Research Board (TRB) meeting and once during the summer at various locations across the nation.

We need your input to continue to improve our services. Please go to our website, [t2.ce.ufl.edu](http://t2.ce.ufl.edu), and click on the link: Win a T<sup>2</sup> Workshop Voucher. We appreciate you taking time to let us know how we can better serve you by going online and filling out the brief evaluation form. As thanks for this assistance, three names will be randomly drawn from those who complete and submit the online evaluation and will receive a voucher to attend a 2010 T<sup>2</sup> Center class of their choice. Deadline for entry is 5 PM Eastern Daylight Time on October 30, 2009. Thanks to each and every one of you for helping us help you. ■■■

## Local Roads Matter! Campaign Launched

The National Association of County Engineers (NACE) has embarked on a national Local Roads Matter! Campaign to raise awareness of county and local road needs and challenges as the surface transportation authorization debate commences.

The National Needs Assessment explores five key points:

- Local Roads Matter! – local roads constitute the vast majority of highway mileage (about 75 percent) and over half the bridges in the United States.
- Local roads are at risk – in every corner of the country, roads and bridges are falling further into a state of disrepair as local officials struggle to make ends meet amid growing demand for services.
- The highway safety record on local roads, and particularly rural roads, is totally unacceptable and is, in part, a consequence of underinvestment in local roads.

- Local roads are getting shortchanged through complex funding formulas and sub-allocation processes that fail to get adequate funding down to the local level.
- Local roads do indeed matter. The fundamental issues of fairness and equity must be addressed in highway funds to stimulate and preserve local economies and address a safety problem of troubling dimensions.

The surface transportation authorization provides the opportunity to act on these critical issues.

A new and more enlightened federal, state, and local partnership is needed to restore the balance to highway investments and achieve important economic, environmental and safety goals. Visit [countyengineers.org/LRM/index.html](http://countyengineers.org/LRM/index.html) for more information on the NACE Local Roads Matter! Campaign.

Source: National Association of County Engineers ■■■

## Join us September 21-23, 2009 in Orlando

The Southeast Road Safety Audit (RSA) Forum and Road Safety Audits for Local Governments Workshop are Federal Highway Administration (FHWA)-sponsored events, held in conjunction with Florida's quarterly Community Traffic Safety Team (CTST) Coalition Meeting, which is supported by the Florida Department of Transportation (FDOT). The first 100 registrants for the Southeast Road Safety Audit Forum will receive a RSA t-shirt and RSA tote bag.

### Southeast Road Safety Audit Forum

[t2.ce.ufl.edu/workshops.asp?workshop=RSAF](http://t2.ce.ufl.edu/workshops.asp?workshop=RSAF)

The Forum will focus on common emphasis areas among the states including current progress, RSA success stories from around the country, and ways to advance implementation of RSAs in the southeast region. This Forum will also serve as a peer exchange among the participating states to facilitate discussion and highlight successful RSA programs and policies. A small registration fee of \$75 will cover materials, breaks and breakfast.

#### RSA Forum topics include:

- An Overview of RSAs
- Implementation of RSAs in Florida
- State and Local RSA Programs
- RSA Findings, Pedestrian RSAs
- Engaging Law Enforcement in RSAs
- RSA Conversation Circles

### Road Safety Audits for Local Governments Workshop

[t2.ce.ufl.edu/workshops.asp?workshop=RSAI](http://t2.ce.ufl.edu/workshops.asp?workshop=RSAI)

This free, optional workshop requires separate registration and immediately follows the Coalition and Forum. The workshop introduces local road agency professionals to RSAs as an effective tool to reduce injuries and fatalities. The training includes basic road safety audit concepts, risk and safety, common issues, and demonstrates how low cost safety improvements can be implemented quickly on any road network. Participants will gain experience in conducting a Road Safety Audit.

#### Road Safety Audit Forum Schedule

(Registration fee is \$75)

Monday September 21	1:00 PM–5:00 PM
Tuesday September 22	8:00 AM–12:30 PM

#### RSA Workshop Schedule

(Free, but separate registration is required)

Tuesday September 22	2:00 PM–5:00 PM
Wednesday September 23	8:00 AM–5:00 PM

Register for one or both events by clicking on the links above or by calling 352.273.1675. For information about the Community Traffic Safety Team (CTST) Coalition meeting to be held Monday morning prior to the start of the SE RSA Forum, contact Sheryl Bradley at 407.246.2814. ■■■





## FACERS Awards

The Florida Association of County Engineers and Road Superintendents (FACERS) recognizes excellent service in Florida's public works agencies. The FACERS awards are the most prestigious professional recognition in Florida for public works and transportation personnel. Visit [www.facers.org](http://www.facers.org) for more information.

### FACERS Awards and Qualification Criteria

All FACERS award nominees receive written notification and congratulations when the nomination period closes. Winners receive statewide recognition at the FACERS annual conference and their accomplishments and photos are featured in Technology Transfer Quarterly.

Every individual employed within a Florida city or county public works or transportation agency is eligible for the Public Works Employee of the Year Award.

Public agency teams comprised of employees within a Florida city or county public works or transportation agency are eligible for the Public Works Team Project of the Year Award.

Rural Engineer Award nominees must have performed services in a public works or transportation agency serving a population of less than 100,000.

Urban Engineer Award nominees must have performed services in a public works or transportation agency serving a population of 100,000 or more.

Nominees are not required to be a FACERS member.

### FACERS Public Works Employee of the Year Award

Harold Roebuck  
Survey Party Chief  
Highlands County Engineering Department  
Sebring Parkway Phase II Construction

Harold Roebuck was instrumental in the successful construction of the Sebring Parkway Phase II project which consisted of a new, four-lane divided facility from US Highway 27 to North Ridgewood Drive (SR17), approximately 2.7 miles. The project was designed by the Highlands County Engineering Department and constructed by an in-house work force. Concrete items were contracted out.

Harold is always reliable, ready and willing to take on tasks. He has great character and work ethic. He took the lead in coordination of surveyed services for parking, storm water retention, and sports fields through his interaction with the school board personnel. He has also coordinated survey services with CSX and South Central Florida Express (SCFE) for installation of railroad grade crossings, signals, and utilities.

Harold used his excellent surveying skills and initiated workable field solutions throughout the project. He showed leadership



by taking on CEI/management responsibilities through anticipation of scheduling and coordination with contractors. Harold spearheaded the county's effort that led to an agreement for in-kind services with the school board in exchange for right-of-way acquisition.

In this time of limited financial resources, Harold's talents as a gifted construction engineering inspector were essential to the daily operation and subsequent success of the project. In addition, his devotion to Highlands County is unparalleled and he always goes the extra mile. Congratulations, Harold!



FACERS Vice President, Hector Bertrams, presents Public Works Employee Award to Harold Roebuck. ▶



▲ FACERS Vice President, Hector Bertrams, presents Urban Engineer Award to Laura Yonkers.

## FACERS Urban Engineer of the Year

Laura Yonkers, P.E.  
Supervisor, Permitting Section  
Palm Beach County Engineering  
E-Permitting System

Palm Beach County's decision to develop an electronic permitting (E-Permitting) system for the application, processing, review, and permit issuance involved a contract between the County Engineer's Office and the County Information Systems Services (ISS). A committee of Permitting Section staff, led by Laura Yonkers, worked with ISS to design the E-Permitting System to closely mimic the existing paper system. The process could not vary from the existing paper system because industry participation in the electronic system is voluntary. Thus, each reviewer must operate in both systems.

Yonkers successfully grasped the complexity of the proposed system and became the creative visionary, seeing how the screen presentations should look to how the system should operate. She offered direction to consultants tasked with developing the extremely complex interrelationships of the permitting process record keeping, dealing with other reviewing agencies, and the customer. She continually suggested and even demanded adjustments to guarantee a usable, completed system.

Laura became the quality control leader and, through her initiative, was recognized as an authority by management, staff, and consultants. She earned the respect of all, including customers recruited to beta test the system. Her energy, diligence, dedication, and commitment to the proper developmental track were unsurpassed.

Now, staff, management, the designer, and project owner have immediate access to the status of all permit applications and comments, fostering complete accountability by each staff member involved in the permit review and processing. No longer will applications get lost, "fall between the cracks," or their status be uncertain.

Without the direction given by Laura Yonkers, the E-Permitting System would not be the evolving technological advancement that it is today. Laura's accomplishments are impressive and illustrate her commitment to the profession as well as her dedication to public service. Congratulations, Laura, for being named the FACERS Urban Engineer of the Year!



▲ FACERS Vice President, Hector Bertrams, presents the Team Award to Orange County employees Maricela Torres, right, and Elizabeth White.

## FACERS Public Works Team Project of the Year

McCulloch Road Undermining and Pavement Distress Project  
Team Leader: Elizabeth White, Engineer II  
Orange County Public Works Department  
Roads & Drainage Division

Elizabeth White and her Team repaired a section of McCulloch Road, located in Orange County, near North Tanner Road. The section exhibited unusually large and alarming pavement cracking due to drastic soil movement. The constructed roadway embankment was essentially a small earthen dam about five feet in height, separating wetlands. At least three feet head difference existed across the dam. A 60 inch reinforced concrete pipe pressure main traversed through the roadway center, with the top about seven feet below the pavement top. Seepage forces and subsurface water movement were causing the downward movement of the sub grade soils, contributing to the pavement failure. The solution required fixing several parameters to stop the soil from shifting and included:

**Soil Stabilization:** Very loose backfill soils required stabilization in the pipe zone beneath the pavement. Open excavation was impractical, thus compaction grouting beneath the depth of pavement reconstruction was used.

**Groundwater Interceptor:** Installation of a trench to cut off groundwater flow from the isolated wetland was necessary to create a positive outfall. (See the photo on the front cover.)

**Groundwater Barrier:** Installation of a six foot tall, vertical geogrid provided superior load transfer and prevented dehydration impacts.

**Pavement Repair:** The pavement was reconstructed to a depth of three feet and incorporated a geogrid within the subgrade.

The Team did a marvelous job of identifying the various site issues and implementing the array of adaptable, cost effective solutions to correct the multiple problems, prevent chronic pavement distress and provide long-term performance.

The Team was able to conduct the work with minimal disruption to traffic, accomplishing all tasks between April and June 2008, and keeping the construction cost to a minimum: \$157,950.00.

Congratulations to the Orange County Roads & Drainage Division Team for a job well done! ■■■

# New at the T<sup>2</sup> Media Center

Our Media Center offers more than **7,000** publications, **1,000** videos, and **175** CDs for loan. To request any of the items on these pages, please mark the items you want to borrow and fax with the FaxBack form on the inside back cover to **352.392.3224**. Descriptions of the materials can be found on our website: [t2.ce.ufl.edu](http://t2.ce.ufl.edu) where you can also request a full catalog on CD, or browse the electronic catalog. Call **352.392.9537 EXT. 1544** for assistance.

## New Publications

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Adjacent Precast Concrete Box Beam Bridges: Connection Details</b><br/>N-SYN393.01 TRB</li> <li><input type="checkbox"/> <b>Guide for Reducing Speeding-Related Crashes</b><br/>NCHRP500.23 TRB NCHRP</li> <li><input type="checkbox"/> <b>Legal Research Digest - Major Legal Issues for Highway Public-Private Partnerships</b><br/>P8029.01 TRB</li> <li><input type="checkbox"/> <b>Research Results Digest 334: Joint Workshop on Abutment Scour: Present Knowledge and Future Needs</b><br/>P8031.01 NCHRP</li> <li><input type="checkbox"/> <b>Transportation's Role in Emergency Evacuation and Reentry</b><br/>N-SYN392.01 TRB</li> <li><input type="checkbox"/> <b>TCRP - Local and Regional Funding Mechanisms for Public Transportation</b><br/>TCRPO129.01 TRB</li> <li><input type="checkbox"/> <b>W-Beam Guardrail Repair: A Guide for Highway and Street Maintenance Personnel</b><br/>P8033.01 FHA</li> <li><input type="checkbox"/> <b>Vegetation Control For Safety: A Guide for Highway and Street Maintenance Personnel</b><br/>P8034.01 FHA</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Transit Security Update</b><br/>TCRP N80.01 TRB</li> <li><input type="checkbox"/> <b>Work Zone Speed Control</b><br/>P8036.01 CDOT</li> <li><input type="checkbox"/> <b>Information Sharing For Traffic Incident Management</b><br/>P8037.01 FHA</li> <li><input type="checkbox"/> <b>FHWA Road Safety Audit Guidelines</b><br/>P8039.01 FHWA</li> <li><input type="checkbox"/> <b>Summary Report: Two Low-Cost Safety Concepts for Two-Way STOP-Controlled Rural Intersection on Highway-Speed Two-Lane Two-Way Roadways</b><br/>P8040.01 FHWA</li> <li><input type="checkbox"/> <b>Emergency Response Guidebook 2008</b><br/>DOO48.01 US DOT</li> <li><input type="checkbox"/> <b>Long-Term Pavement Performance</b><br/>C250.01 FHWA</li> <li><input type="checkbox"/> <b>Implementing the Results of the Second Strategic Highway Research Program</b><br/>P8046.01 TRB</li> <li><input type="checkbox"/> <b>Guidelines for Guardrail Implementation</b><br/>NCHRP638.01 TRB</li> <li><input type="checkbox"/> <b>Traffic Calming on Main Roads through Rural Communities</b><br/>P8050.01 FHWA</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Effectiveness of Dynamic Messaging on Driver Behavior for Late Merge Lane Road Closures</b><br/>P8051.01 IOWA DOT</li> <li><input type="checkbox"/> <b>The Effects of On-Street Parking on Cyclist Route Choice and the Operation Behavior of Cyclists and Motorists</b><br/>P8052.01 TEXAS DOT</li> <li><input type="checkbox"/> <b>Low-Cost Treatments for Horizontal Curve Safety</b><br/>P8056.01 FHWA</li> <li><input type="checkbox"/> <b>Planned Special Events: Cost Management and Cost Recovery Primer</b><br/>P8058.01 FHWA</li> <li><input type="checkbox"/> <b>Causality Factors Review of Severe Pedestrian Crashes</b><br/>P8059.01 LTAP</li> <li><input type="checkbox"/> <b>Summary Report: Evaluation of Sign and Marking Alternatives for Displaced Left-Turn Lane Intersections</b><br/>P8062.01 FHWA</li> <li><input type="checkbox"/> <b>Environmentally Sensitive Maintenance for Dirt and Gravel Roads</b><br/>P8067.01 EPA</li> <li><input type="checkbox"/> <b>Transportation - Are We There Yet?</b><br/>P8071.01 AASHTO</li> </ul> |
|---|---|---|

## Giveaways

Make your choice(s) and use the FaxBack form to request these free items.

- ☐ Roadway Safety Awareness Program - Hazards and Preventions (English) 5 BOOKLETS
- ☐ Roadway Safety Awareness Program - Hazards and Preventions (Spanish) 5 BOOKLETS
- ☐ Field Guide for Inspecting Signalized Intersections to Reduce Red-Light Running 2 BOOKLETS
- ☐ Vegetation Control for Safety - A Guide for Local Highway and Street Maintenance Personnel 25 BOOKLETS
- ☐ W-Beam Guardrail Repair - A Guide for Highway and Street Maintenance Personnel 21 BOOKLETS
- ☐ Life-Cycle Cost Analysis: The Georgia Experience 1 BOOKLET

## Remembering Martha Dobson

For the past three years, Martha Dobson and her husband Dan have worked at the Florida T<sup>2</sup> Center as a team producing the Florida Department of Transportation (FDOT) Research Showcase magazine, Research Information Cards, and FDOT Research Summaries, which are listed in each of our quarterly newsletters. Martha passed away unexpectedly on May 23, 2009.

Martha brought great talent and experience to her job at our center, having worked for many years as the editor for publications

produced by the University of Florida's College of Engineering. Those who were lucky enough to be interviewed by Martha will never forget the professional approach and clear, concise way she could explain their research. She brought the projects to life in words and Dan provided the images and layout to tell the visual stories used in the different publications.

She is deeply missed as a friend, colleague, and true professional. ■■■



# Florida's Pedestrian and Bicycling Safety Resource Center Materials

Here are selected items from our collection of pedestrian and bicycling-related educational and promotional materials that can be provided to qualifying organizations to help support pedestrian and bicycle safety and educational activities. Be sure to check back regularly to see new items. Please visit [pedbikesrc.ce.ufl.edu](http://pedbikesrc.ce.ufl.edu) for descriptions and ordering information.

## Books:

Florida Bicycling Street Smarts  
Walk 'n Roll Activity Book  
Teacher's Guide - Walk With Me

## Videos (DVDs):

I'm Safe - Walk With Me  
I'm Safe - On Wheels  
Disney's Safety Hits Volume 1  
Disney's Safety Hits Volume 2 only available for loan

## Videos (VHS):

Bike 'n Ped Driver Ed  
Middle School Helmet Safety Program  
Courtesy Promotes Safety

## LED Reflector:

Be Safe Be Seen

## Passive Reflector:

Reflective Wrist Bands

## Posters:

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

Hispanic Pedestrian Poster: Intoxicated

## Publications (Pamphlets):

Parent's Guide - Child Safety on Your Street  
Crosswalk Safety  
How To Fit & Wear Your Bicycle Helmet  
Road Riders Are Drivers

## Publications (Punch Cards):

Walk - n - Roll To School

## Publications (Book Marks):

I'm A Safe Walker  
Wear Your Helmet

## Publications (Questionnaires):

Walkability Survey

## Publications (Flyers):

Know the Rules - Going To & From School (English)  
Know the Rules - Going To & From School (Spanish)  
Road Riders Are Drivers  
Laws For Bicyclists Sharing the Roadway  
Peligro en el Camino

## Publications (Activity Book):

I'm Safe - On My Bike (English and Creole)

## Publications (Reports):

Pedestrian Safety Guide for Transit Agencies  
A Resident's Guide for Creating Safe and Walkable Communities  
How to Develop a Pedestrian Safety Action Plan  
How To Fit & Wear Your Bicycle Helmet

## Stickers:

Walk Safely!  
Use Your Head  
Walking School Bus  
Use Your Head



## New Research Cards Are Available

The FDOT Research Center has completed the following information cards:

- ☐ **Distribution of End Bearing, Tip Shear and Rotation on Drilled Shafts with Combined Loading in Florida Limestone**

BD545-59 New Design Models for Large Drilled Shafts Embedded in Limestone

- ☐ **Smart Phone Application to Influence Travel Behavior (TRAC-IT Phase 3)**

BD549-35 TRAC-IT Cell Phone Application Aids Informed Travel Choices

### TRAC-IT Cell Phone Application Aids Informed Travel Choices



### Smart Phone Application to Influence Travel Behavior (TRAC-IT Phase 3) BD549-35

**Background** This study marks the third and final phase of research focused on adapting personal electronic devices for use in making travel choices. In the previous studies, the researchers developed a system that could use GPS technology to track individual routes (BD549-02), record and analyze trip data over extended periods, and then provide feedback regarding alternative travel options (BD549-24).

**Findings** The researchers enhanced TRAC-IT to work on GPS-enabled cell phones and record trip location, duration, and speed data for several transport modes (e.g., car, bus, bike). TRAC-IT now can send data to a central server for rapid analysis, and provide both graphical and textual feedback to the user's phone. The researchers added a path predictor that can anticipate a route based on past choices, analyze it in real time, and provide the user with travel alerts. TRAC-IT has the potential to modify travel behavior and provide travelers statewide with cost and time savings.

Project Manager: Michael Wright  
Principal Investigator: Philip Winters  
<http://www.dot.state.fl.us/research-center>

To request cards, contact the Media Center at 352.392.9537 EXT. 1544 or [mediacenter@ce.ufl.edu](mailto:mediacenter@ce.ufl.edu) or use the FaxBack form on the inside back cover.

## CTT Offering Exclusive Training Sessions

### Save Time, Money, and Provide Enhanced Learning

In this economy, we know that budgets are limited. We also realize that construction technicians must still be qualified. As a way to better serve the Construction Training Qualification Program (CTQP), the Center for Transportation Training (CTT), is offering the full catalog of CTQP courses on an exclusive basis throughout the state. To date, CTT has offered exclusive courses all around the state this year, including Panama City, Miami, Fort Myers, DeLand, Tampa and Crestview.

CTT is keenly aware that due to the length of some CTQP courses, overnight travel may be required, increasing the cost of training. Hosting an exclusive course session offers several benefits. First, a substantial savings in terms of travel costs can be realized. Expenses such as hotels, meals, per diem and fuel are just a few. Second, travel takes away time from work. Since many of us are required to get the job done with reduced staffing, time

away from the job reduces productivity. Also, by offering these workshops at your facility, the trainees tend to be more comfortable as they are in familiar surroundings. This creates a setting that is more conducive to learning. Finally, there is an opportunity for more specialized attention. With new hires and technicians who may not have worked in a particular field, sometimes there is a need for more assistance and attention that may not be available at a remote location. CTT can also present customized classes to better address the needs of the trainees. Feel free to contact us for details at [ctt.ce.ufl.edu](http://ctt.ce.ufl.edu) or call 352.846.3593 EXT. 31669.

With an exclusive session, Florida Department of Transportation personnel, government agencies, and contractors are able to mitigate travel expenses while improving the learning experience for their employees. Remember, with CTT it's training on *your* terms. ■■■

## Free courses continue

### The Safe Mobility for Life Program: Preparing Florida for the Future

To meet the motoring needs of this aging population, as well as younger drivers, the Florida Department of Transportation developed Florida-specific training for planners, engineers, public works personnel, local elected officials, and other associated professionals. The workshop, "The Safe Mobility for Life Program: Preparing Our State for the Future," focuses on mature drivers and pedestrians and presents options, plus alternative solutions, to the planning, design, and operation of Florida roadways and transportation facilities.

Two classes remain on the original schedule:

19 Aug 2009

Miami

16 Sep 2009

Cantonment

No fee will be charged, but registration is required as seating is limited.

Visit [t2.ce.ufl.edu/workshops.asp](http://t2.ce.ufl.edu/workshops.asp) or call the T<sup>2</sup> Center at 352.273.1685 for more details or to register. ■■■

## Roundabouts Workshop

**August 18, 2009 Sheraton Orlando North Hotel in Maitland, Florida.**

The workshop is designed for transportation professionals interested in roundabout design and operations. Presentation topics include:

- An Overview of Modern Roundabouts and What They Might Soon Mean for You
- Design of Roundabouts
- Roundabouts and Their Implementation in the U.S.
- Roundabouts in the 2010 Highway Capacity Manual and Updated FHWA Roundabout Guide

- Modeling of Roundabouts Using SIDRA
- Modeling Roundabouts Using CORSIM
- Designing Roundabouts with TORUS

Visit [trc.ce.ufl.edu/Roundabouts\\_Workshop\\_2009.html](http://trc.ce.ufl.edu/Roundabouts_Workshop_2009.html) for more program details and how to register. Six Professional Development Hours (PDHs) will be offered for renewal of the PE license and AICP certification. Co-sponsored by the Center for Multimodal Solutions for Congestion Mitigation (CMS) and McTrans. ■■■

## Win a free T<sup>2</sup> Workshop Voucher

Wouldn't it be nice to receive some free training during these tough economic times? Complete our quick evaluation by 5PM EDT on October 30, 2009. Let us know how we're doing in serving your training and technical assistance needs and you could win a free training voucher to **any** of our T<sup>2</sup> courses held during 2010. Three winners will be randomly selected to receive these vouchers.

The Florida T<sup>2</sup> Center will use the evaluation results in planning for the future and in providing the best services to Florida's public works and transportation organizations. Please go to our website [t2.ce.ufl.edu](http://t2.ce.ufl.edu) and click on the link: **Win a T<sup>2</sup> Workshop Voucher** and fill out the evaluation. Your responses will not be linked to your entry, so your evaluation will be anonymous. ■■■

## Correction

In our February 2009 newsletter, the article "Liability Checklist for Local Transportation and Public Works Agencies" was adapted with permission from Dr. Ron Eck, not Dr. Ron Van Eck. We apologize for this error. ■■■



# Poison Ivy, Poison Oak and Poison Sumac

## Just the names can make your skin *crawl*!

The result of a run-in with any of these plants can be quite unpleasant. What causes the resulting skin conditions and how can you avoid contact in the first place?

Poison ivy, poison oak and poison sumac produce an oil (urushiol pronounced oo-roo-shee-ohl) found in the sap of the leaves, roots, and twigs. The oil irritates the skin, causing an itching rash which appears in one to four days, and will often develop into blisters. Most people, however, will have no reaction the first time they are exposed. Sensitivity generally increases with increased number of exposures.

Scratching the blisters does not spread the rash nor are the rashes blisters contagious. They are spread by coming in contact with the oil and can be contracted all year around. You can even get the rash from dead plants. Particles in the smoke of the burning plant may carry toxins as well. It can get in your lungs if you breathe the smoke.

When working in areas where these plants grow or if you are eliminating the plants, wear protective clothing: gloves, long-sleeved shirt and full-length pants, socks and shoes. Several herbicides are probably used by your agency's landscape management team to provide effective plant control.

The oil can become airborne with the use of a mower, trimmer, shovel, or earth moving equipment, and can stick to anything such as clothes and animals, etc. It can dry and remain potent for years, so it is important to thoroughly wash anything that has come into contact with the plants.

If you come into contact with any of these three plants, washing the oil off quickly with dishwashing soap and water will lessen the consequences. However working in the field does not provide the best opportunity to wash so learning to recognize and avoid them is the best strategy. Identification of these toxic plants can be tricky.

## What to look for outside:



**Poison ivy** is a woody vine or shrub that climbs more than 10 feet. It has roots that are hairy looking. Poison ivy can grow anywhere – in woods and treeless fields and is common along roadsides, fence lines and pathways. Leaf forms and sets can vary but most consist of three leaflets. The center stem can be a red color, especially in fall. A common saying is “Leaflets three, let it be.”

**Poison oak** leaves occur in sets of three and resemble the lobed shape seen in oak leaves, especially the center leaf. The outside leaves are more irregular in shape.



**Poison sumac** is a woody shrub or even small tree reaching 25 feet in height that normally is found in swampy areas or bogs in acidic, moist soils. Swamp sumac, poison elder, poison ash, poison dogwood and thunderwood are other names for poison sumac. Leaves consist of 7 to 13 leaflets arranged in pairs with a single leaflet at the point. They are bright orange fall through spring and turn to a glossy, dark green with dark red ribs running down the middle of the leaves as the year progresses.

**Virginia creeper**, a climbing vine, is often mistaken for poison ivy but Virginia creeper has three to five leaves.

Visit [edis.ifas.ufl.edu/EP220](http://edis.ifas.ufl.edu/EP220) for more information on poison ivy, poison oak and poison sumac.



Image source: Sherrie Lowe, Putnam County Master Gardener, University of Florida III

# Bilingual 511 Traveler Information System Launched in Florida Will Help Agency Workers

The Florida Department of Transportation (FDOT) recently launched its new, bilingual, statewide 511 Traveler Information System that replaces the regional 511 phone systems. Now, road users and travelers can call 511 anywhere in Florida for the same voice and call menu options.

511 was originally designated as the national traveler information telephone number by the Federal Communications Commission to “enhance safety, ease congestion, reduce pollution and fuel consumption, and advance efficiency—all without the traditional dependence on simply building or enlarging roads.”

The statewide system provides information on roadway conditions such as construction, lane closures, crashes, congestion, and severe weather affecting traffic and commuter travel time. Callers can request information on traffic, transit, travel times, airports, seaports or even information for a specific roadway, city or county. The system is also updated with public safety alerts, including Law Enforcement Officer (LEO), Amber, Silver, and other alerts.

In addition, FDOT's new FL511.com website replaces regional 511 websites. Find the same detailed traffic and travel information as the 511 phone call, plus camera views and links for transit agencies, airports, and seaports. Users can register for My Florida 511 personalized services to receive traffic alerts via phone call, e-mail and/or text message. Customize alerts by choosing the time of day, day of week and type or severity of incidents. Users can also program customized routes to hear travel information on their routes first when calling 511.

Florida's 511 phone and web system gives real-time traffic reports on Florida's interstates, toll roads and major metropolitan roadways.

A call to 511 is free, however normal cell phone minute and text message charges apply. Call 511 or visit FL511.com to learn about roadway conditions before hitting the road. III

# Upcoming Workshops

through November 2009

For a list of all courses and to register, visit [t2.ce.ufl.edu](http://t2.ce.ufl.edu) or email [t2workshops@ce.ufl.edu](mailto:t2workshops@ce.ufl.edu) or call 352.273.1675.

To register for CTQP and CTT courses, visit [ctt.ce.ufl.edu](http://ctt.ce.ufl.edu) or email [ctt@ce.ufl.edu](mailto:ctt@ce.ufl.edu) or call 352.846.3593 EXT. 31669.

## ADA/Accessibility Requirements for Hwy Design and Pedestrians

Aug 26, 2009 Sebring

## ADA - Facilities Access

Aug 27, 2009 Sebring

## Advanced Maintenance of Traffic

Aug 18 - 20, 2009 Clearwater  
Aug 26 - 28, 2009 Orlando  
Sep 2 - 4, 2009 Ft Myers  
Oct 7 - 9, 2009 Orlando  
Oct 7 - 9, 2009 Tallahassee  
Nov 18 - 20, 2009 Pompano Beach

## Advanced Maintenance of Traffic Refresher

Aug 17, 2009 Clearwater  
Aug 25, 2009 Orlando  
Sep 1, 2009 Ft Myers  
Oct 6, 2009 Orlando  
Oct 6, 2009 Tallahassee  
Oct 24, 2009 Gainesville  
Nov 17, 2009 Pompano Beach

## Asphalt Paving Level 1

Aug 14, 2009 Gainesville  
Aug 24, 2009 Miami  
Sep 28, 2009 Gainesville  
Oct 26, 2009 Orlando  
Nov 13, 2009 Gainesville  
Nov 16, 2009 West Palm Beach

## Asphalt Paving Level 2

Aug 25 - 27, 2009 Miami  
Sep 29 - Oct 1, 2009 Gainesville  
Oct 27 - 29, 2009 Orlando  
Nov 17 - 19, 2009 West Palm Beach

## Asphalt Plant Level 1

Aug 19 - 21, 2009 Gainesville  
Oct 21 - 23, 2009 Gainesville  
Nov 18 - 20, 2009 Miami

## FDOT Concrete Field Inspector Spec

Sep 10 - 11, 2009 Orlando  
Oct 7 - 8, 2009 Davie  
Nov 9 - 10, 2009 Panama City

## Crash Reduction Factors - Application and the Science

Aug 17, 2009 Orlando

## Drilled Shaft Inspection

Sep 2 - 4, 2009 Orlando  
Nov 2 - 4, 2009 Gainesville

## Earthwork Construction Inspection 1

Aug 11 - 12, 2009 Tampa  
Sep 15 - 16, 2009 Davie  
Oct 13 - 14, 2009 Panama City  
Nov 3 - 4, 2009 Orlando

## Earthwork Construction Inspection 2

Aug 13 - 14, 2009 Tampa  
Sep 17 - 18, 2009 Davie  
Oct 15 - 16, 2009 Panama City  
Nov 5 - 6, 2009 Orlando

## Geotechnical Engineering for Non-Geotechnical Engineers - The Basics

Sep 21, 2009 Pompano Beach  
Sep 22, 2009 Sebring  
Sep 23, 2009 Lakeland  
Sep 24, 2009 Palm Coast  
Sep 25, 2009 Green Cove Springs

## Intermediate Maintenance of Traffic

Aug 11 - 12, 2009 Gainesville  
Aug 12 - 13, 2009 Cape Coral  
Aug 19 - 20, 2009 Tampa  
Sep 2 - 3, 2009 Orlando  
Sep 16 - 17, 2009 Ft Myers  
Oct 28 - 29, 2009 Oldsmar  
Oct 28 - 29, 2009 Naples  
Nov 9 - 10, 2009 Orlando  
Nov 17 - 18, 2009 Gainesville

## Intermediate Maintenance of Traffic Refresher

Aug 13, 2009 Gainesville  
Aug 18, 2009 Tampa  
Sep 15, 2009 Ft Myers  
Oct 2, 2009 DeLand  
Oct 27, 2009 Oldsmar  
Oct 27, 2009 Naples  
Nov 19, 2009 Gainesville

## Intersection Safety

Aug 19, 2009 Tampa

## Introduction To Highway Construction Inspection

Oct 6, 2009 Destin

## LBR Technician

Sep 17 - 18, 2009 Gainesville

## Low-Cost Safety Improvements in Urban/Rural Environments

Aug 18, 2009 Orlando

## Pilot/Escort Flagging Training

Aug 11, 2009 Ft Myers  
Aug 18, 2009 Gainesville  
Aug 21, 2009 Milton  
Sep 5, 2009 Tallahassee  
Sep 12, 2009 Tampa  
Sep 22, 2009 Gainesville  
Oct 14, 2009 Ft Myers  
Oct 23, 2009 Leesburg  
Oct 29, 2009 Gainesville  
Nov 3, 2009 Tampa  
Nov 14, 2009 Tallahassee  
Nov 16, 2009 Gainesville

## QC Manager

Aug 31 - Sep 1, 2009 Orlando  
Sep 8 - 9, 2009 Panama City  
Oct 5 - 6, 2009 Davie

## Qualified Aggregate Sampler

Sep 16, 2009 Gainesville

## Road Safety Audits for Local Governments - Southeast RSA Forum

Sep 22 - 23, 2009 Lake Buena Vista (Orlando)

## Roadside Maintenance Safety

Aug 19, 2009 Miami  
Sep 16, 2009 Cantonment

## Safe Mobility for Life Program: Preparing Our State for the Future

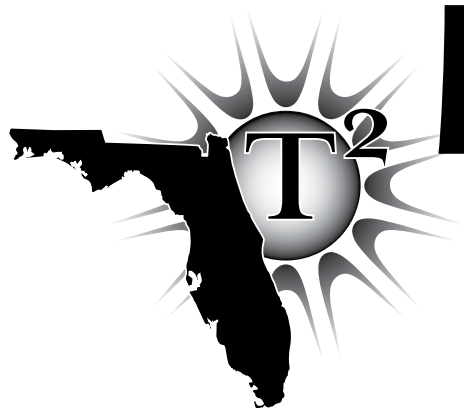
Aug 19, 2009 Miami  
Sep 16, 2009 Cantonment

## Southeast Road Safety Audit Forum

Sep 21 - 22, 2009 Lake Buena Vista (Orlando)

## Security Awareness for Public Works Employees

Sep 21 - 22, 2009 Lake Buena Vista (Orlando)



# FaxBack

## Quick Service Form

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Name \_\_\_\_\_ Agency \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please check your affiliation below:

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☐ County  
☐ State  
☐ Federal  
☐ University  
☐ Other

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Fax \_\_\_\_\_

Email \_\_\_\_\_

- ☐ Add me to your mailing list  
☐ Correct my information as indicated  
☐ Remove me from your mailing list

**PUBLICATIONS, VIDEOS, AND CDS** from the T<sup>2</sup> Center. Just check the item(s) you wish to borrow on page 6, fill out the information above, and fax all pages to us. It's that easy!

**ITEMS** mentioned in this issue:

Please mark the boxes below like this  Thank you!

SUBJECT	MAIL COPY	FAX COPY	EMAIL COPY
MEDIA CENTER ITEMS (PG. 6)			
GIVEAWAYS (PG. 6)			
RESEARCH CARDS (PG. 7)			

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# Upcoming Workshops

For the dates and locations of these upcoming workshops see page 10.

ADA/Accessibility Requirements for Hwy Design and Pedestrians	1 Class	Earthwork Construction Inspection 1	4 Classes	Pilot/Escort Flagging Training	12 Classes
ADA – Facilities Access	1 Class	Earthwork Construction Inspection 2	4 Classes	QC Manager	3 Classes
Advanced Maintenance of Traffic	6 Classes	Geotechnical Engineering for Non-Geotechnical Engineers – The Basics	5 Classes	Qualified Aggregate Sampler	1 Class
Advanced Maintenance of Traffic Refresher	7 Classes	Intermediate Maintenance of Traffic	9 Classes	Road Safety Audits for Local Governments – Southeast RSA Forum	1 Class
Asphalt Paving Level 1	7 Classes	Intermediate Maintenance of Traffic Refresher	7 Classes	Roadside Maintenance Safety	2 Classes
Asphalt Paving Level 2	4 Classes	Intersection Safety	1 Class	Safe Mobility for Life Program: Preparing Our State for the Future	2 Classes
Asphalt Plant Level 1	3 Classes	Introduction To Highway Construction Inspection	1 Class	Southeast Road Safety Audit Forum	1 Class
FDOT Concrete Field Inspector Spec	3 Classes	LBR Technician	1 Class	Security Awareness for Public Works Employees	1 Class
Crash Reduction Factors – Application and the Science	1 Class	Low-Cost Safety Improvements in Urban/Rural Environments	1 Class		
Drilled Shaft Inspection	2 Classes				

To register or see all workshop listings visit [ctt.ce.ufl.edu](http://ctt.ce.ufl.edu) for CTQP or CTT workshop details or visit [t2.ce.ufl.edu](http://t2.ce.ufl.edu) for all other workshop details.



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