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 T² Center logo which will officially debut with our November issue of the Technology Transfer Quarterly.

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Florida T² 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 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 (NLTPA), 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 T² 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 T² 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, and click on the link: Win a T² 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 T² 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 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

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

nt2.ce.ufl.edu/workshops.asp?workshop=RSA1

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 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.

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

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 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 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 T² 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 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

☐ Adjacent Precast Concrete Box Beam Bridges: Connection Details
 N-SYN393.01 TRB

☐ Guide for Reducing Speeding-Related Crashes
 NCHRPR500.1 TRB NCHRPR

☐ Legal Research Digest - Major Legal Issues for Highway Public-Private Partnerships
 P8029.01 TRB

☐ Research Results Digest 334: Joint Workshop on Abutment Scour: Present Knowledge and Future Needs
 P8031.01 NCHRPR

☐ Transportation's Role in Emergency Evacuation and Reentry
 N-SYN392.01 TRB

☐ TCRP - Local and Regional Funding Mechanisms for Public Transportation
 TCRP0129.01 TRB

 P8033.01 FHA

☐ Vegetation Control For Safety: A Guide for Highway and Street Maintenance Personnel
 P8034.01 FHA

☐ Transit Security Update
 TCRP NS0.01 TRB

☐ Work Zone Speed Control
 P8036.01 CDOT

☐ Information Sharing For Traffic Incident Management
 P8037.01 FHA

☐ FHWA Road Safety Audit Guidelines
 P8039.01 FHA

 P8040.01 FHA

☐ Emergency Response Guidebook 2008
 D0048.01 US DOT

☐ Long-Term Pavement Performance
 C250.01 FHA

☐ Implementing the Results of the Second Strategic Highway Research Program
 P8046.01 TRB

☐ Guidelines for Guardrail Implementation
 NCHRPR638.01 TRB

☐ Traffic Calming on Main Roads through Rural Communities
 P8050.01 FHA

☐ Effectiveness of Dynamic Messaging on Driver Behavior for Late Merge Lane Road Closures
 P8051.01 IOWA DOT

☐ The Effects of On-Street Parking on Cyclist Route Choice and the Operation Behavior of Cyclists and Motorists
 P8052.01 TEXAS DOT

☐ Low-Cost Treatments for Horizontal Curve Safety
 P8056.01 FHA

☐ Planned Special Events: Cost Management and Cost Recovery Primer
 P8058.01 FHA

☐ Causality Factors Review of Severe Pedestrian Crashes
 P8059.01 LTAP

☐ Summary Report: Evaluation of Sign and Marking Alternatives for Displaced Left-Turn Lane Intersections
 P8062.01 FHA

☐ Environmentally Sensitive Maintenance for Dirt and Gravel Roads
 P8067.01 EPA

☐ Transportation - Are We There Yet?
 P8071.01 AASHTO

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 T² 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 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

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
  BD545-50
- New Design Models for Large Drilled Shafts Embedded in Limestone
  BD549-35
- TRAC-IT Cell Phone Application Aids Informed Travel Choices
  BD549-35

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

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.

To request cards, contact the Media Center at 352.392.9537 EXT. 1544 or 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 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 or call the T² 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 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 Multi-modal Solutions for Congestion Mitigation (CMS) and McTrans.

Win a free T² 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 T² courses held during 2010. Three winners will be randomly selected to receive these vouchers.

The Florida T² 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 and click on the link Win a T² 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-shue-oh) 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 for more information on poison ivy, poison oak and poison sumac.

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

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.
Upcoming Workshops through November 2009

For a list of all courses and to register, visit t2.ce.ufl.edu or email t2workshops@ce.ufl.edu or call 352.273.1675. To register for CTQP and CTT courses, visit ctt.ce.ufl.edu or email 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**
- Sep 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)
Today’s Date__________________________________________

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ITEMS mentioned in this issue:

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HELP US! Please help update our database so we can serve you better! If you are receiving duplicate copies or receiving mail for folks who are no longer with your agency, please let us know. Simply make a copy of the back page of the newsletter—showing us the person’s name and information—write delete or correct the current information, and fax it to us at 352.392.3224. If you have several deletions or corrections, please contact t2mailings@ce.ufl.edu at 352.273.1675.
# Upcoming Workshops

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

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<th>Workshop</th>
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